

2021 PRODUCT CATALOG

Northern[★]

The Security Professional's Choice For Video Surveillance Products

Featuring: Two All-New Product Lines

N2 HD-Analog



N2 Series IP-POE

Our All-New Northern★ N2 Series NVR's with POE & N2 Series 4MP True WDR IP Cameras.



N2NVRPOE Series

Pages 4~7

N2 Series 4, 8, 16 & 32 Channel Network Video Recorders with POE

N2IP4AFB

Page 9

N2 Series 4MP IP, True WDR Outdoor Varifocal IR Bullet Camera

N2IP4T

Page 12

N2 Series 4MP IP, True WDR Outdoor IR Turret Camera

N2IIP4W

Page 13

N2 Series 4MP IP, True WDR, Outdoor IR Wedge Camera

N2 Series HD Analog

Our All-New Northern★ N2 Full Hybrid DVR's & 4-in-1 HD Analog Cameras.

N2HVR Series

Pages 18~21

4, 8 & 16 Channel 5-in-1 Hybrid HD Analog Recorders

HDTIR90WD

Page 26

4-in-1 1080p, True WDR Outdoor Turret Camera

N2 Series HD Analog



HDAFDIR90WD

Page 24

4-in-1 1080p, True WDR Outdoor Varifocal IR Dome Camera

HDBIR60WD

Page 27

4-in-1 1080p, True WDR Outdoor IR Bullet Camera

Cable, Connectivity & Other Products

Northern★ Structured Cabling, Monitors, Power Supplies & Other Accessories.



LED Series Monitors

Page 43~46

17" ~ 32" Security Rated Widescreen LED Monitors

Power Supplies

Page 52~56

12 Volt DC & 24 Volt AC Multi-Channel Power Supplies

HDMIEXTC6

Page 57

4K UHD/60Hz HDMI 2.0 Extender with IR Passback

Structured Cabling

Page 62~69

Bulk 5E, 6, 6E & 6A Category Cable & Connectivity Products

Northern★ THE SECURITY PROFESSIONAL'S CHOICE Northern★

Northern★ is the security professional's choice for video surveillance products. Whether you require recording devices, cameras, monitors or the accessories to put a system together, Northern★ can offer you state-of-the-art products with the latest technology.

Our team of dedicated experts is in tune with the latest advances in surveillance technology and is committed to providing cutting edge products to security dealers throughout North America. The Northern★ line provides installing dealers with the products needed to do the job properly, efficiently and profitably while satisfying the needs of their customers.

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N2NVRPOE Series NVR's



N2NVR4POE

4-Ch NVR with 4-Channel POE

N2NVR8POE

8-Ch NVR with 8-Channel POE

N2NVR16POE

16-Ch NVR with 16-Channel POE

N2NVR3216POE

32-Ch NVR with 16-Channel POE



Plug and Play!
Plug & Play with Northern N2 Series Cameras!
Cameras Sold Separately

FEATURES:

- ◆ Real-Time 30FPS/Ch Recording @ 1080p
- ◆ Up to 8MP Recording 4-8-16 Channel
- ◆ Up to 12MP Recording on 32 Channel
- ◆ H.265 & H.264 Recording Compressions
- ◆ NorthernView Mobile App for iPhone, iPad & Android™
- ◆ Built-in Motion Detection & Privacy Mask
- ◆ Free CMS Software
- ◆ Supports P2P Operation
- ◆ Up to 8TB Storage Capacity (4Ch)
- ◆ Up to 16TB Storage Capacity (8, 16Ch)
- ◆ Up to 32TB Storage Capacity (32Ch)
- ◆ Integrated 40W/80W/120W POE Switch (4/8/16-Ch)
- ◆ Integrated 160W POE Switch (32Ch)
- ◆ Included Mouse for NVR Control
- ◆ Dual USB for Mouse Control & Copying Video
- ◆ Simultaneous HDMI & VGA Outputs (4Ch)
- ◆ Independent HDMI & VGA Outputs (8, 16, 32Ch)
- ◆ Up to 16 Channel Synchronous Playback
- ◆ Accepts ONVIF Protocols
- ◆ Rack Mount Hardware Included (8, 16, 32Ch)
- ◆ Built-In Audio & Alarm
- ◆ Supports 2-Way Audio

Hard Drive Configurations & Part Numbers

DRIVE SIZE	4 Channel	8 Channel	16 Channel	32 Channel
2TB	N2NVR4POE2T	N2NVR8POE2T	N2NVR16POE2T	N/A
4TB	N2NVR4POE4T	N2NVR8POE4T	N2NVR16POE4T	N2NVR3216POE4T
6TB	N2NVR4POE6T	N2NVR8POE6T	N2NVR16POE6T	N2NVR3216POE6T
8TB	N2NVR4POE8T	N2NVR8POE8T	N2NVR16POE8T	N2NVR3216POE8T
12TB	N/A	N2NVR8POE12T	N2NVR16POE12T	N2NVR3216POE12T
16TB	N/A	N2NVR8POE16T	N2NVR16POE16T	N2NVR3216POE16T
18TB	N/A	N/A	N/A	N2NVR3216POE18T
24TB	N/A	N/A	N/A	N2NVR3216POE24T
32TB	N/A	N/A	N/A	N2NVR3216POE32T

PACKAGE CONTENTS

- Power Cord
- Power Supply (4 & 8Ch Units only)
- Quick Start Manual
- Rack Mount Hardware (8, 16, 32Ch only)
- Mouse



N2NVRPOE Series NVR's

Learn More

H.265 Recording Compression

H.265 compression format provides both increased video quality and reduced bandwidth consumption.

Mobile App for iPhone, iPad & Android™

NorthernView Mobile App allows for viewing and playback from multiple mobile devices.

Real Time 1080p Recording

All Models record up to 30FPS per Channel at 1080p resolution.

Up to 32TB Storage Capacity

Large storage capacities allows for longer storage of recording video. Up to 8TB (4Ch), 16TB (8-16Ch) 32TB (32Ch).

Built in Motion Detection

Maximize your recording duration by only recording when Motion is detected by the NVR.

Built in POE Switch

4Ch/40W, 8Ch/80W, 16Ch/120W & 32Ch/160W POE Switch for connecting and powering cameras directly from the NVR using only a single Category 5/6 cable.

Free N2 Series CMS Software for PC & MAC

Connect to Multiple NVR's or individual IP cameras from a single computer with the included N2 Series CMS software.

HDMI & VGA Video Outputs

Simultaneous HDMI & VGA outputs on 4Ch model. Independent HDMI & VGA outputs on 8-16-32Ch Models.

Supports DDNS

DDNS feature insures you will always stay connected to your NVR when using a Dynamic IP address.

P2P Operation

Peer to Peer functionality makes mobile viewing setup easier by bypassing the need to configure port forwarding in most routers.

Dual USB Ports

NVR's include dual front USB ports for easy copying of video to a USB drive and mouse control.

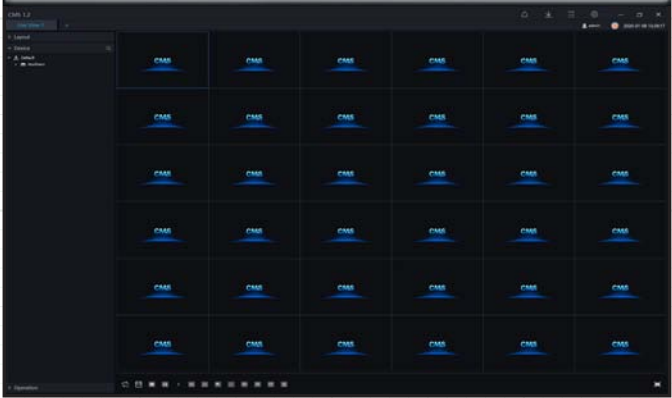
Remote Accessibility

Remotely connect, monitor, playback, record and change NVR settings via IE & Chrome browsers.

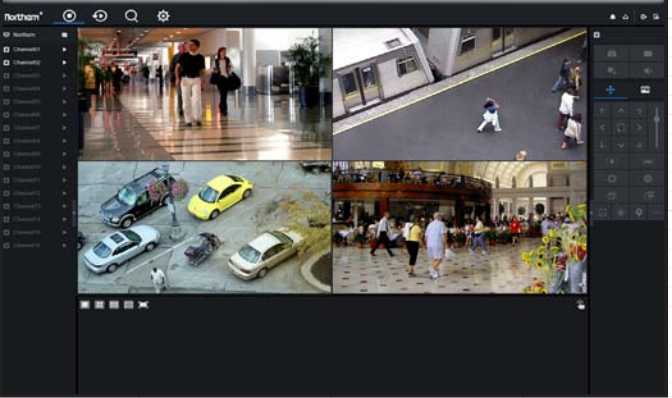
Plug & Play (N2 Series Only)

The N2NVR Series will plug and play with all N2 Series IP Cameras. Plug & Play automatically finds and configures Northern N2 Series cameras.

CMS Software For PC/Mac

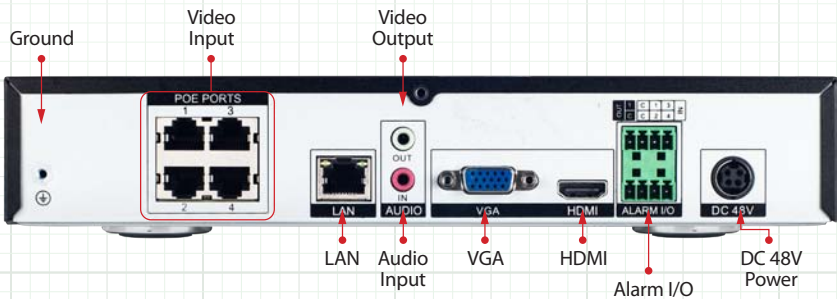


Browser Based Remote Software

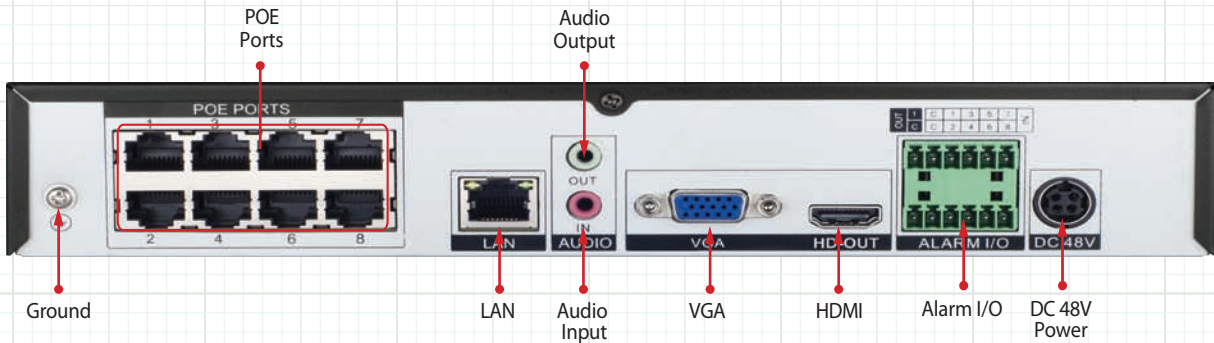


Rear Panel Connections

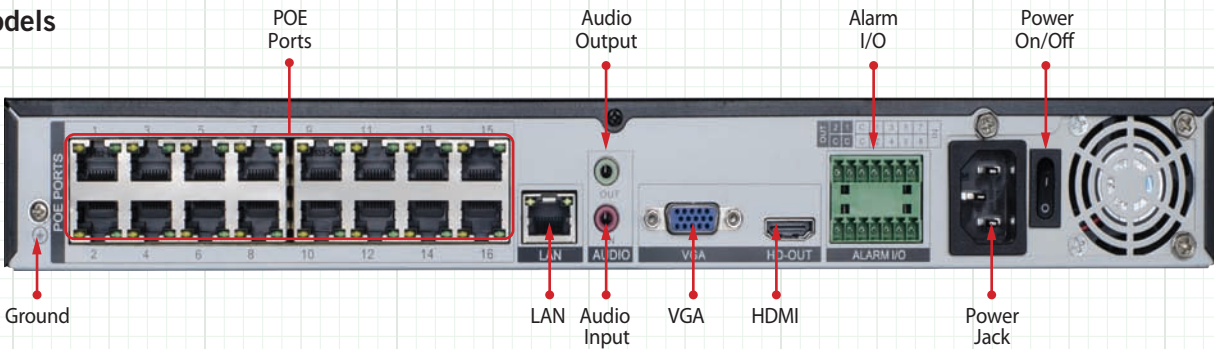
4 Ch. Models



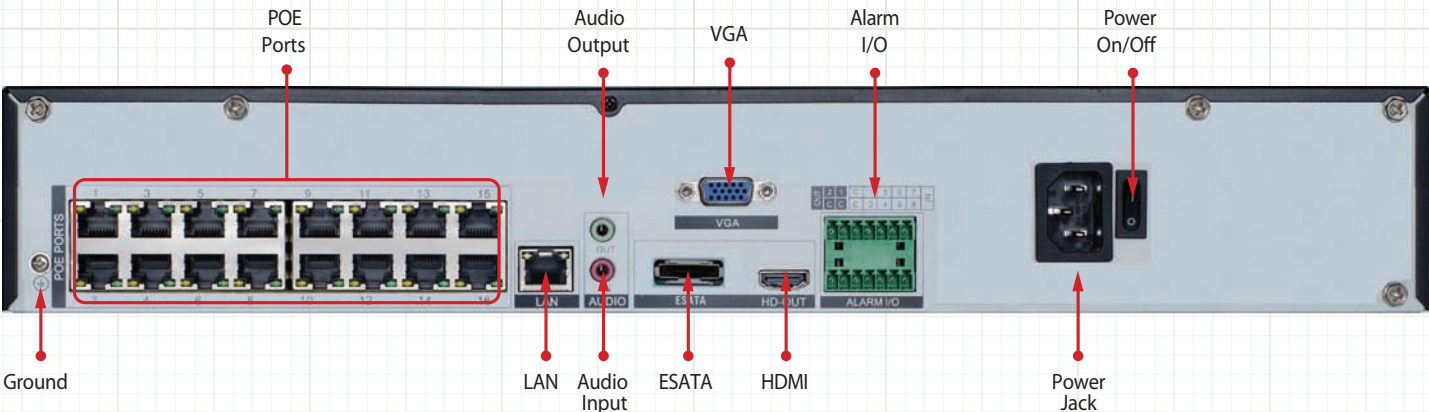
8 Ch. Models



16 Ch. Models



32 Ch. Models



N2NVRPOE Series Specifications

	FEATURES	N2NVR4POE	N2NVR8POE	N2NVR16POE	N2NVR3216POE
Video/Audio Input	IP Video Input	4-Channel	8-Channel	16-Channel	16-Channel
	Two-Way Audio Input	3.5mm Audio Jack			
	NTSC / PAL	Yes			
	Plug & Play Models	"N2 Series Only" N2IP4B, N2IP4D, N2IP4D4MM, N2IP4T, N2IP4W, N2IP4AFD, N2IP4AFB, N2IPPTZ30X			
Network	Incoming Bandwidth	40 Mbps	80 Mbps	160 Mbps	320 Mbps
	Outgoing Bandwidth	40 Mbps	80 Mbps	160 Mbps	320Mbps
	Remote Connection	Up to 9 Users			
Video/Audio Output	Recording Resolution	12MP (32ch Only) / 8MP / 6MP / 5MP / 4MP / 3MP / 1080p / 720p / D-1			
	Frame Rate	12MP @ 20fps (32ch Only), 8MP / 6MP / 5MP / 4MP / 3MP / 1080p / 720p / D-1 @ 30fps			
	HDMI Output Resolution	3840 x 2160, 1920 x 1080, 1440 x 900, 1280 x 1024			
	VGA Output Resolution	1920 x 1080, 1280 x 1024, 1280 x 720			
	Audio Output	3.5mm Audio Jack - For Two-Way Audio Only			
Decoding	Live / Playback Resolution	12MP (32ch Only) / 8MP / 6MP / 5MP / 4MP / 3MP / 1080p / 720p / D-1			
	Playback Capability	1Ch-8MP / 4Ch-1080P@30fps	1Ch-8MP / 4Ch- 1080P / 8Ch-D1@30fps	1Ch-8MP / 4Ch- 1080P / 9Ch-D1 / 16ch D1@30fps	1Ch-12MP@20FPS / 4Ch-8MP / 9Ch-1080p / 16Ch-1080p / 32Ch-D1 @ 30FPS
Recording & Playback	Compression	H.265 , H.265+ , H.264, H.264+			
	Record Mode Types	Manual, Schedule (Regular, Continuous), Motion Detection, Alarm In			
	Bit Rate (Per Channel)	100Kbps ~ 6000Kbps			100Kbps ~ 8000Kbps
	Pre & Post Recording	Auto Pre Recording based on # of Cameras Connected / Post Record (30 sec ~ 60 sec adjustable)			
	Redundant Recording	N/A			Requires 4x HDD
	Recording Parameters	Independent for Each Channel (Resolution, Frame Rate, Bit Rate, etc.)			
	Zooming	Yes - Digital Zoom Available in Live View & Playback			
	Synchronous Playback	Up to 4Ch	Up to 8Ch	Up to 16Ch	
	Playback Controls	Play, Pause, Stop, Rewind, Fast Play, Slow			
	Searching	Time / Date, Alarm, Picture Grid, Event			
Hard Disk	SATA	1x	2x		4x
	Capacity	Up to 8TB			Up to 8TB
	Max Storage	8TB	16TB		32TB
	RAID	N/A			RAID 5,6,10
	eSATA	N/A			Yes
	HDD Detection	Built-IN SMART Detection			
External interface	Network Interface	1 RJ-45 port (10/100Mbps)		1 RJ-45 port (10/100/1000Mbps)	
	USB Interface	2x USB 2.0			2x USB 2.0, 1x USB 3.0
	Alarm In/Out	4/1	8/1	8/2	2/2
	CMS Software	Included NorthernView N2 Series CMS			
PoE	Network Interface	4Ch 100Mbps	8Ch 100Mbps	16Ch 100Mbps	
	Maximum Power	40W	80W	120W	160W
	Supported Standard	IEEE 802.3af			
General	Power Supply	DC48V/1.25A	DC48V/2.5A	AC100~240	
	Consumption (no HDD)	< 5W			< 15W
	Operating Temperature	-10 °C ~ 50 °C (14 °F ~ 122 °F)			
	Operating Humidity	Less than 90% RH			
	Chassis	No Rack Mount	1U Rack Mount		2U Rack Mount
	Dimensions	255x235x47.5mm	372x310.5x46.5mm		440x383.6x70mm
	Weight (no HDD)	1.98lb / 0.9kg	4.6lb / 2.1kg	5.1lb / 2.3kg	9.7lb / 4.4kg

Note: Specification subject to change without notice

N2 Series 4MP IP, True WDR, Outdoor IR Bullet Camera

POE, 2.8mm IR Lens, 100' IR, IP67

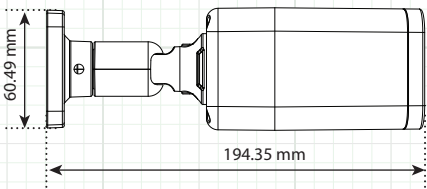
FEATURES:

- ◆ H.265 & H.264 Compression
- ◆ True Wide Dynamic Range - 120dB
- ◆ Up to 2592 x 1520 Resolution
- ◆ Fixed Focal 2.8mm IR Lens
- ◆ 4 IR LED's - 100' IR Range
- ◆ Mechanical IR Cut Filter
- ◆ Triple Stream Capability
- ◆ 3D Digital Noise Reduction
- ◆ POE - Power over Ethernet
- ◆ Free CMS Software
- ◆ ONVIF Profile S/G/Q Compliant
- ◆ IP67 Weatherproof

INCLUDED ACCESSORIES:

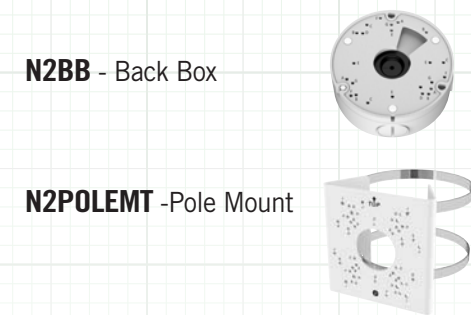
Quick Guide, Mounting Template,
Hardware Packet, Adjustment Wrench, Waterproof
Connector

CAMERA OVERVIEW:



Side View & Dimensions

OPTIONAL MOUNTING ACCESSORIES:



Front View & Dimensions

SPECIFICATION	N2IP4B
Camera	Image Sensor
	1/2.8" Progressive Scan CMOS
	Minimum Illumination
	Color: 0.01Lux @(F1.2,AGC ON) , B/W: 0Lux @(IR LED ON)
	S/N Ratio
	55dB
	IR LED Count / Range / Nanometer
	4 IR LED's / 100' Range / 850nm
	Shutter Time
	1/5s - 1/20,000s
	Lens (IR Corrective)
	Fixed 2.8mm - Angle of View 105°
Resolution/Bitrate	Camera Bracket Adjustment
	Pan: 0°~360°, Tilt: 0°~90°, Rotation: 0°~360°
	Day & Night
	Yes - True Day/Night with IR Filter - Auto Switch
	DNR (Digital Noise Reduction)
	2DNR & 3DNR, Auto / Manual (0-100 Adjustable)
	True Wide Dynamic Range (120dB)
	On / Off (0-100 Adjustable)
	BLC (Backlight Compensation)
	On / Off (0-100 Adjustable)
Network	Smart Analytic Features
	Perimeter, Single & Double Virtual Fence, Object Left, Object Removal
	Region of Interest
	Yes
	Video Compression
	H.265, H.264, MJPEG (for all stream types)
	Max. Resolution
	2592 x 1520 (4MP)
	Mainstream Resolution
	2592x1520, 2560x1440, 2304x1296, 1920x1080, 1280x720 @25/30FPS
General	Substream Resolution
	D1, VGA, 640x360, CIF, QVGA @25/30fps
	Third Stream Resolution
	VGA, CIF, QVGA @25/30FPS
	Video Bitrate
	Main: 500kbps ~ 12000kbps
	Sub: 100kbps ~ 6000kbps
	Third: 100kbps ~ 3000kbps
	Protocols
	IPv4/IPv6, 802.1x, HTTP, HTTPS, TCP/IP, UDP/IP, RTSP, DHCP, NTP, RTCP/RTP, PPPoE, SMTP, DNS, UPnP, FTP, ARP, SNMP

Note: Specification subject to change without notice

N2 Series 4MP IP, True WDR, Outdoor Varifocal IR Bullet Camera

POE, Autofocus 2.~13.5mm IR Lens, 120' IR, IP67

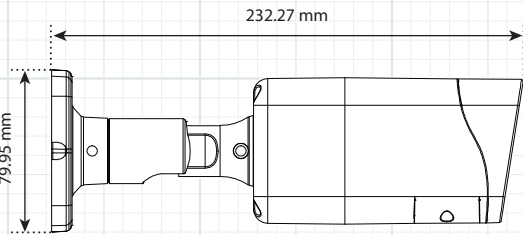
FEATURES:

- ◆ H.265 & H.264 Compression
- ◆ True Wide Dynamic Range - 120dB
- ◆ Up to 2592 x 1520 Resolution
- ◆ Autofocus 2.7~13.5mm IR Lens
- ◆ 4 IR LED's - 120' IR Range
- ◆ Mechanical IR Cut Filter
- ◆ Triple Stream Capability
- ◆ Audio Line In/Out & Alarm
- ◆ 3D Digital Noise Reduction
- ◆ POE - Power over Ethernet
- ◆ Free CMS Software
- ◆ ONVIF Profile S/G/Q Compliant
- ◆ IP67 Weatherproof

INCLUDED ACCESSORIES:

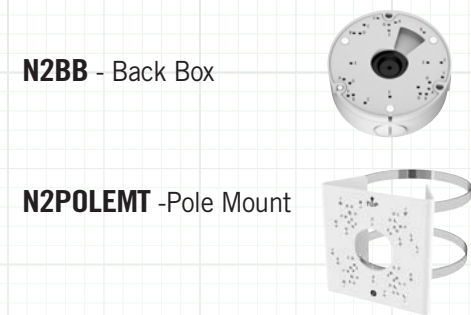
Camera, User Manual, Mounting Screws.

CAMERA OVERVIEW:



Side View & Dimensions

OPTIONAL MOUNTING ACCESSORIES:



Front View & Dimensions

SPECIFICATION	N2IP4AFB
Camera	Image Sensor
	1/2.8" Progressive Scan CMOS
	Minimum Illumination
	Color: 0.05Lux @(F1.2,AGC ON) , B/W: 0Lux @(IR LED ON)
	S/N Ratio
	55dB
	IR LED Count / Range / Nanometer
	4 IR LED's / 120' Range / 850nm
	Shutter Time
	1/5s - 1/20,000s
	Lens (IR Corrective)
	Autofocus 2.7~13.5mm - Angle of View 103° ~ 34.3°
Resolution/Bitrate	Camera Bracket Adjustment
	Pan: 0°~360°, Tilt: 0°~90°, Rotation: 0°~360°
	Day & Night
	Yes - True Day/Night with IR Filter - Auto Switch
	DNR (Digital Noise Reduction)
	2DNR & 3DNR, Auto / Manual (0-100 Adjustable)
	True Wide Dynamic Range (120dB)
	On / Off (0-100 Adjustable)
	BLC (Backlight Compensation)
	On / Off (0-100 Adjustable)
Network	Smart Analytic Features
	Perimeter, Single & Double Virtual Fence, Object Left, Object Removal
	Region of Interest
	Yes
	Audio Compression
	G.711, RAW_PCM
	Video Compression
	H.265, H.264, MJPEG (for all stream types)
	Max. Resolution
	2592 x 1520 (4MP)
Interface	Mainstream Resolution
	2592x1520, 2560x1440, 2304x1296, 1920x1080, 1280x720 @25/30FPS
	Substream Resolution
	D1, VGA, 640x360, CIF, QVGA @25/30fps
	Third Stream Resolution
	VGA, CIF, QVGA @25/30FPS
	Audio Bitrate
	8kbps, 16kbps, 64kbps
	Video Bitrate
	Main: 500kbps ~ 12000kbps
General	Sub: 100kbps ~ 6000kbps
	Third: 100kbps ~ 3000kbps
	Protocols
	IPv4/IPv6, 802.1x, HTTP, HTTPS, TCP/IP, UDP/IP, RTSP, DHCP, NTP, RTCP/RTP, PPPoE, SMTP, DNS, UPnP, FTP, ARP, SNMP
	General Function
	Supports Mirror, Aisle Mode, Smart IR, Password Protection, Privacy Mask, Motion Detection
	Users
	Up to 10 Users
	Client Software
	NorthernView CMS, NorthernView Mobile App, NorthernView Tools

N2IP4D / N2IP4D4MM



N2 Series 4MP IP, True WDR, Outdoor IR Dome Cameras
POE, 2.8mm or 4mm IR Lens, 100' IR, IP67/IK10

FEATURES:

- ◆ H.265 & H.264 Compression
- ◆ True Wide Dynamic Range - 120dB
- ◆ Up to 2592 x 1520 Resolution
- ◆ Fixed Focal 2.8mm or 4mm IR Lens
- ◆ 2 High Power IR LED's - 100' IR Range
- ◆ Mechanical IR Cut Filter
- ◆ Triple Stream Capability
- ◆ Audio Line In/Out & Alarm
- ◆ 3D Digital Noise Reduction
- ◆ POE - Power over Ethernet
- ◆ Free CMS Software
- ◆ ONVIF Profile S/G/Q Compliant
- ◆ IK10 Impact Resistance
- ◆ IP67 Weatherproof

INCLUDED ACCESSORIES:

Quick Guide, Mounting Template, Hardware Pack-
et, Adjustment Wrench, Waterproof Connector.

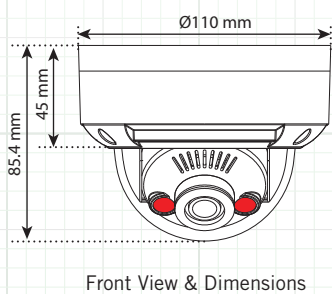
OPTIONAL MOUNTING ACCESSORIES:

N2BB - Back Box

N2POLEMT - Pole Mount
(Requires N2WM)

N2PM - Pendent Mount

N2WM - Wall Mount



Front View & Dimensions

SPECIFICATION		N2IP4D	N2IP4D4MM
Camera	Image Sensor	1/2.8" Progressive Scan CMOS	
	Minimum Illumination	Color: 0.01Lux @(F1.2,AGC ON) , B/W: 0Lux @(IR LED ON)	
	S/N Ratio	55dB	
	IR LED Count / Range / Nanometer	2 High Power IR LED's / 100' Range / 850nm	
	Shutter Time	1/5s - 1/20,000s	
	Lens (IR Corrective)	Fixed 2.8mm - Angle of View 100°	Fixed 4mm - Angle of View 85°
	Camera Bracket Adjustment	Pan: 0°~350°, Tilt: 0°~75°, Rotation: ±90°	
	Day & Night	Yes - True Day/Night with IR Filter - Auto Switch	
	DNR (Digital Noise Reduction)	2DNR & 3DNR, Auto / Manual (0-100 Adjustable)	
	True Wide Dynamic Range (120dB)	On / Off (0-100 Adjustable)	
	BLC (Backlight Compensation)	On / Off (0-100 Adjustable)	
	Smart Analytic Features	Perimeter, Single & Double Virtual Fence, Object Left, Object Removal	
	Region of Interest	Yes	
	Audio Compression	G.711, RAW_PCM	
Resolution/Bitrate	Video Compression	H.265, H.264, MJPEG (for all stream types)	
	Max. Resolution	2592 x 1520 (4MP)	
	Mainstream Resolution	2592x1520, 2560x1440, 2304x1296, 1920x1080, 1280x720 @25/30FPS	
	Substream Resolution	D1, VGA, 640x360, CIF, QVGA @25/30fps	
	Third Stream Resolution	VGA, CIF, QVGA @25/30FPS	
Network	Audio Bitrate	8kbps, 16kbps, 64kbps	
	Video Bitrate	Main: 500kbps ~ 12000kbps	
		Sub: 100kbps ~ 6000kbps	
Interface	Third: 100kbps ~ 3000kbps		
	Protocols	IPv4/IPv6, 802.1x, HTTP, HTTPS, TCP/IP, UDP/IP, RTSP, DHCP, NTP, RTPC/ RTP, PPPoE, SMTP, DNS, UPnP, FTP, ARP, SNMP	
	General Function	Supports Mirror, Aisle Mode, Smart IR, Password Protection, Privacy Mask, Motion Detection	
General	Users	Up to 10 Users	
	Client Software	NorthernView CMS, NorthernView Mobile App, NorthernView Tools	
	Web Browser	IE11, Chrome, Firefox	
	Communication Interface	1 Ethernet (10/100 Base-T) RJ-45 Connector	
General	Audio	1Ch Input/Output (3.5mm)	
	Alarm	1Ch Input/Output (Screw Terminal Connector)	
	Reset Button	Yes	
	Operating Conditions	-30°C ~ 50°C (-22°F ~ 122°F), Less than 90% RH	
	Power Supply	12VDC / POE (IEEE 802.3af)	
	Power Consumption & Current	3.5W (IR LED OFF), 8W Max (IR LED ON)	
	Weatherproof/ Impact Ratings	IP67/IK10	
	Housing Material / Color	Aluminum / White	
	Overall Camera Dimensions	Φ.3" x 3.4" (Φ.10 x 85.4mmmm)	
	Weight	0.86lb / 390g	
	Certifications	CE / FCC	

Note: Specification subject to change without notice



N2 Series 4MP IP, True WDR, Outdoor Varifocal IR Dome Camera
POE, Autofocus 2.7~13.5mm IR Lens, 100' IR, IP66/IK10

FEATURES:

- ◆ H.265 & H.264 Compression
- ◆ True Wide Dynamic Range - 120dB
- ◆ Up to 2592 x 1520 Resolution
- ◆ Autofocus 2.7~13.5mm IR Lens
- ◆ 15 IR LED's - 100' IR Range
- ◆ Mechanical IR Cut Filter
- ◆ Triple Stream Capability
- ◆ Audio Line In/Out & Alarm
- ◆ 3D Digital Noise Reduction
- ◆ POE - Power over Ethernet
- ◆ Free CMS Software
- ◆ ONVIF Profile S/G/Q Compliant
- ◆ IK10 Impact Resistance
- ◆ IP66 Weatherproof

INCLUDED ACCESSORIES:

Quick Guide, Mounting Template,
Hardware Packet, Adjustment Wrench, Water-
proof Connector.

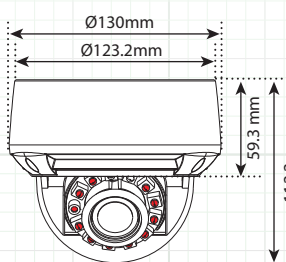
OPTIONAL MOUNTING ACCESSORIES:

N2BB - Back Box

N2POLEMT - Pole Mount
(Requires N2WMAFD)

N2PM - Pendent Mount

N2WMAFD - Wall Mount



Front View & Dimensions



SPECIFICATION		N2IP4AFD	
Camera	Image Sensor	1/2.8" Progressive Scan CMOS	
	Minimum Illumination	Color: 0.05Lux @(F1.2,AGC ON) , B/W: 0Lux @(IR LED ON)	
	S/N Ratio	55dB	
	IR LED Count / Range / Nanometer	15 IR LED's / 100' Range / 850nm	
	Shutter Time	1/5s - 1/20,000s	
	Lens (IR Corrective)	Autofocus 2.7~13.5mm - Angle of View 103° ~ 34.3°	
	Camera Bracket Adjustment	Pan: 0°~355°, Tilt: 0°~80°, Rotation: 0°~355°	
	Day & Night	Yes - True Day/Night with IR Filter - Auto Switch	
	DNR (Digital Noise Reduction)	2DNR & 3DNR, Auto / Manual (0-100 Adjustable)	
	True Wide Dynamic Range (120dB)	On / Off (0-100 Adjustable)	
	BLC (Backlight Compensation)	On / Off (0-100 Adjustable)	
	Smart Analytic Features	Perimeter, Single & Double Virtual Fence, Object Left, Object Removal	
	Region of Interest	Yes	
	Audio Compression	G.711, RAW_PCM	
Video Compression	H.265, H.264, MJPEG (for all stream types)		
Resolution/Bitrate	Max. Resolution	2592 x 1520 (4MP)	
	Mainstream Resolution	2592x1520, 2560x1440, 2304x1296, 1920x1080, 1280x720 @25/30FPS	
	Substream Resolution	D1, VGA, 640x360, CIF, QVGA @25/30fps	
	Third Stream Resolution	VGA, CIF, QVGA @25/30FPS	
	Audio Bitrate	8kbps, 16kbps, 64kbps	
	Video Bitrate	Main: 500kbps ~ 12000kbps	
Sub: 100kbps ~ 6000kbps			
Third: 100kbps ~ 3000kbps			
Network	Protocols	IPv4/IPv6, 802.1x, HTTP, HTTPS, TCP/IP, UDP/IP, RTSP, DHCP, NTP, RTPC/RTP, PPPoE, SMTP, DNS, UPnP, FTP, ARP, SNMP	
	General Function	Supports Mirror, Aisle Mode, Smart IR, Password Protection, Privacy Mask, Motion Detection	
	Users	Up to 10 Users	
	Client Software	NorthernView CMS, NorthernView Mobile App, NorthernView Tools	
Interface	Web Browser	IE11, Chrome, Firefox	
	Communication Interface	1 Ethernet (10/100 Base-T) RJ-45 Connector	
	Audio	1Ch Input/Output (3.5mm)	
	Alarm	1Ch Input/Output (Screw Terminal Connector)	
	Reset Button	Yes	
General	Operating Conditions	-30°C ~ 50°C (-22°F ~ 122°F), Less than 90% RH	
	Power Supply	12VDC / POE (IEEE 802.3af)	
	Power Consumption & Current	3.5W (IR LED OFF), 8W Max (IR LED ON)	
	Weatherproof Rating	IP66/IK10	
	Housing Material / Color	Aluminum / White	
	Overall Camera Dimensions	Φ.1' x 4.4" (Φ30 x 112mm)	
	Weight	1.5lb / 690g	
	Certifications	CE / FCC	

N2 Series 4MP IP, True WDR, Outdoor IR Turret Camera
POE, 2.8mm IR Lens, 100' IR, IP67

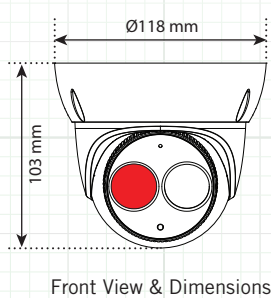
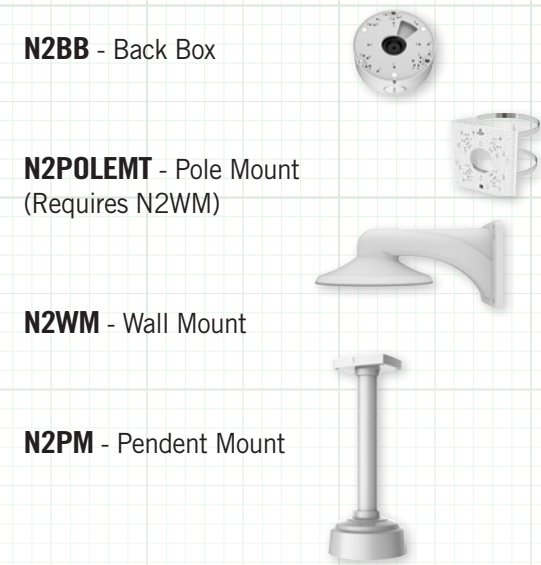
FEATURES:

- ◆ H.265 & H.264 Compression
- ◆ True Wide Dynamic Range - 120dB
- ◆ Up to 2592 x 1520 Resolution
- ◆ Fixed Focal 2.8mm IR Lens
- ◆ 1 High Power IR LED - 100' IR Range
- ◆ Mechanical IR Cut Filter
- ◆ Triple Stream Capability
- ◆ 3D Digital Noise Reduction
- ◆ POE - Power over Ethernet
- ◆ Free CMS Software
- ◆ ONVIF Profile S/G/Q Compliant
- ◆ IP67 Weatherproof

INCLUDED ACCESSORIES:

Quick Guide, Mounting Template, Hardware Packet, Adjustment Wrench, Waterproof Connector.

OPTIONAL MOUNTING ACCESSORIES:



SPECIFICATION		N2IP4T
Camera	Image Sensor	1/2.8" Progressive Scan CMOS
	Minimum Illumination	Color: 0.01Lux @(F1.2,AGC ON) , B/W: 0Lux @(IR LED ON)
	S/N Ratio	55dB
	IR LED Count / Range / Nanometer	1 High Power IR LED / 100' Range / 850nm
	Shutter Time	1/5s - 1/20,000s
	Lens (IR Corrective)	Fixed 2.8mm - Angle of View 100° -
	Camera Bracket Adjustment	Pan: 0°~360°, Tilt: 0°~90°, Rotation: 0°~360°
	Day & Night	Yes - True Day/Night with IR Filter - Auto Switch
	DNR (Digital Noise Reduction)	2DNR & 3DNR, Auto / Manual (0-100 Adjustable)
	True Wide Dynamic Range (120dB)	On / Off (0-100 Adjustable)
Resolution/Bitrate	BLC (Backlight Compensation)	On / Off (0-100 Adjustable)
	Smart Analytic Features	Perimeter, Single & Double Virtual Fence, Object Left, Object Removal
	Region of Interest	Yes
	Video Compression	H.265, H.264, MJPEG (for all stream types)
	Max. Resolution	2592 x 1520 (4MP)
Network	Mainstream Resolution	2592x1520, 2560x1440, 2304x1296, 1920x1080, 1280x720 @25/30FPS
	Substream Resolution	D1, VGA, 640x360, CIF, QVGA @25/30fps
	Third Stream Resolution	VGA, CIF, QVGA @25/30FPS
	Video Bitrate	Main: 500kbps ~ 12000kbps
		Sub: 100kbps ~ 6000kbps
General	Protocols	IPv4/IPv6, 802.1x, HTTP, HTTPS, TCP/IP, UDP/IP, RTSP, DHCP, NTP, RTCP/RTP, PPPoE, SMTP, DNS, UPnP, FTP, ARP, SNMP
	General Function	Supports Mirror, Aisle Mode, Smart IR, Password Protection, Privacy Mask, Motion Detection
	Users	Up to 10 Users
	Client Software	NorthernView CMS, NorthernView Mobile App, NorthernView Tools
	Web Browser	IE11, Chrome, Firefox
Interface	Communication Interface	1 Ethernet (10/100 Base-T) RJ-45 Connector
	Operating Conditions	-30°C ~ 50°C (-22°F ~ 122°F) , Less than 90% RH
	Power Supply	12VDC / POE (IEEE 802.3af)
	Power Consumption & Current	3.5W (IR LED OFF), 8W Max (IR LED ON)
	Weatherproof Rating	IP67
	Housing Material / Color	Aluminum / White
	Overall Camera Dimensions	Φ 6" x 4.1" (Φ18x103mm)
	Weight	1.3lb / 610g
	Certifications	CE / FCC

Note: Specification subject to change without notice

N2 Series 4MP IP, True WDR, Outdoor IR Wedge Camera
POE, 2.8mm IR Lens, 45' IR, IP66

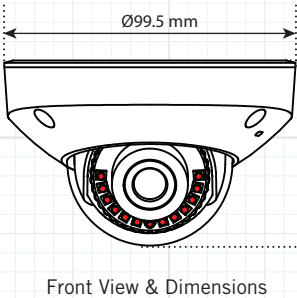
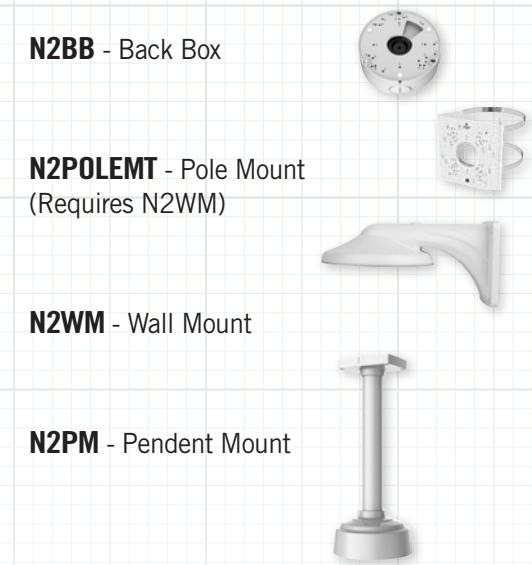
FEATURES:

- ◆ H.265 & H.264 Compression
- ◆ True Wide Dynamic Range - 120dB
- ◆ Up to 2592 x 1520 Resolution
- ◆ Fixed Focal 2.8mm IR Lens
- ◆ 12 IR LED's - 45' IR Range
- ◆ Mechanical IR Cut Filter
- ◆ Triple Stream Capability
- ◆ Built-in Microphone & Alarm
- ◆ 3D Digital Noise Reduction
- ◆ POE - Power over Ethernet
- ◆ Free CMS Software
- ◆ ONVIF Profile S/G/Q Compliant
- ◆ IP66 Weatherproof

INCLUDED ACCESSORIES:

Quick Guide, Mounting Template, Hardware Packet, Adjustment Wrench, Waterproof Connector.

OPTIONAL MOUNTING ACCESSORIES:



SPECIFICATION		N2IP4W
Camera	Image Sensor	1/2.8" Progressive Scan CMOS
	Minimum Illumination	Color: 0.01Lux @(F1.2,AGC ON) , B/W: 0Lux @(IR LED ON)
	S/N Ratio	55dB
	IR LED Count / Range / Nanometer	12 IR LED's / 45' Range / 850nm
	Shutter Time	1/5s - 1/20,000s
	Lens (IR Corrective)	Fixed 2.8mm - Angle of View 100° -
	Camera Bracket Adjustment	Pan: ±45°, Tilt: 0°~90°, Rotation: 0°~360°
	Day & Night	Yes - True Day/Night with IR Filter - Auto Switch
	DNR (Digital Noise Reduction)	2DNR & 3DNR, Auto / Manual (0-100 Adjustable)
	True Wide Dynamic Range (120dB)	On / Off (0-100 Adjustable)
Resolution/Bitrate	BLC (Backlight Compensation)	On / Off (0-100 Adjustable)
	Smart Analytic Features	Perimeter, Single & Double Virtual Fence, Object Left, Object Removal
	Region of Interest	Yes
	Audio Compression	G.711, RAW_PCM
	Video Compression	H.265, H.264, MJPEG (for all stream types)
Network	Max. Resolution	2592 x 1520 (4MP)
	Mainstream Resolution	2592x1520, 2560x1440, 2304x1296, 1920x1080, 1280x720 @25/30FPS
	Substream Resolution	D1, VGA, 640x360, CIF, QVGA @25/30fps
	Third Stream Resolution	VGA, CIF, QVGA @25/30FPS
	Audio Bitrate	8kbps, 16kbps, 64kbps
Interface	Video Bitrate	Main: 500kbps ~ 12000kbps
		Sub: 100kbps ~ 6000kbps
		Third: 100kbps ~ 3000kbps
	Protocols	IPv4/IPv6, 802.1x, HTTP, HTTPS, TCP/IP, UDP/IP, RTSP, DHCP, NTP, RTCP/RTP, PPPoE, SMTP, DNS, UPnP, FTP, ARP, SNMP
General	General Function	Supports Mirror, Aisle Mode, Smart IR, Password Protection, Privacy Mask, Motion Detection
	Users	Up to 10 Users
	Client Software	NorthernView CMS, NorthernView Mobile App, NorthernView Tools
	Web Browser	IE11, Chrome, Firefox
	Communication Interface	1 Ethernet (10/100 Base-T) RJ-45 Connector
	Audio	1Ch Input/Output (RCA), Built in Mic.
	Alarm	1Ch Input/Output (Bare Lead)
	Reset Button	Yes
	On Board Storage	Yes Built in Micro SD/SDHC/SDXC slot, up to 128G
	Operating Conditions	-30°C ~ 50°C (-22°F ~ 122°F) , Less than 90% RH
General	Power Supply	12VDC / POE (IEEE 802.3af)
	Power Consumption & Current	3.5W (IR LED OFF), 6W Max (IR LED ON)
	Weatherproof Rating	IP66
	Housing Material / Color	Metal Body with Plastic Cover / White
	Overall Camera Dimensions	3.9" x 3.9" x 2.4" (99.5 x 99.5 x 63mm)
	Weight	0.8lb / 370g
	Certifications	CE / FCC

N2NVR 4 & 8 Channel Kits



N2NVR4KIT4C
4 Channel IP KIT



KIT INCLUDES:
4-Channel N2HVR w/ 2TB Storage
4 x 1080p 2.8mm Eyeball Cameras w/ 60' IR

N2NVR8KIT6C
8 Channel IP KIT



KIT INCLUDES:
8-Channel N2NVR w/ 2TB Storage
*6x 4MP IP, 2.8mm Eyeball Cameras with 75' IR

* Customize Your Kit with 2 Additional Northern N2 Series IP Cameras (see pages 8~16, sold separately)

CAMERA FEATURES (TVIEIR60):

- ◆ Up to 25FPS, 4MP Max Resolution
- ◆ H.265 Recording Compression
- ◆ Digital Wide Dynamic Range
- ◆ Fixed Focal 2.8mm IR Lens
- ◆ 18 IR LED's – 75' IR Range
- ◆ Mechanical IR Cut Filter
- ◆ Dual Stream Capability
- ◆ 3D Digital Noise Reduction
- ◆ POE- Power over Ethernet
- ◆ IP66 Weatherproof

Full Secifications on Page 15



GUARDING VISION
Free Mobile App for iPhone,
iPad, Android & Android Tablets

NVR FEATURES (N2NVR4/N2NVR8):

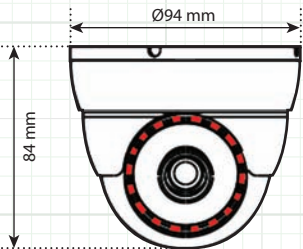
- ◆ Real Time 30FPS Recording @ 1080p
- ◆ 2 Terabyte Included Storage
- ◆ Up to 8MP Recording
- ◆ H.265 Recording Compression
- ◆ NorthernView Mobile App for iPhone, iPad & Android™
- ◆ Supports P2P Operation
- ◆ Integrated 40W/80W POE Switch (4Ch/8Ch)
- ◆ Included Mouse for NVR Control
- ◆ Dual USB for Mouse Control & Copying Video
- ◆ Simultaneous HDMI & VGA Outputs
- ◆ Up to 4 or 8 Channel Synchronous Playback
- ◆ Built-In Audio & Alarm
- ◆ Supports 2-Way Audio
- ◆ Rack Mount Hardware Included (8Ch)

Full Secifications on Pages 4-7

Note: Specification subject to change without notice



N2 Series 4MP IP, Outdoor IR Eyeball Camera
POE, 2.8mm IR Lens, 75' IR, IP66



Front View & Dimensions



FEATURES:

- ◆ H.265 & H.264 Compression
- ◆ Digital Wide Dynamic Range
- ◆ Up to 2560 x 1440 Resolution
- ◆ Fixed Focal 2.8mm IR Lens
- ◆ 18 IR LED's - 75' IR Range
- ◆ Mechanical IR Cut Filter
- ◆ Dual Stream Capability
- ◆ 3D Digital Noise Reduction
- ◆ POE - Power over Ethernet
- ◆ Free CMS Software
- ◆ ONVIF Profile S/G/Q Compliant
- ◆ IP66 Weatherproof

INCLUDED ACCESSORIES:

Quick Guide, Mounting Template,
Hardware Packet, Adjustment Wrench, Water-
proof Connector.

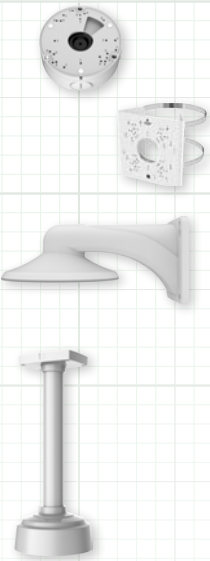
OPTIONAL MOUNTING ACCESSORIES:

N2BB - Back Box

N2POLEMT - Pole Mount
(Requires N2WM)

N2WM - Wall Mount

N2PM - Pendent Mount



	FEATURES	N2IPKITCAM
Camera	Image Sensor	1/3" Progressive Scan CMOS
	Minimum Illumination	Color: 0.05Lux @(F1.2,AGC ON) , B/W: 0Lux @(IR LED ON)
	S/N Ratio	55dB
	IR LED Count / Range / Nanometer	18 IR LED's / 75' Range / 850nm
	Shutter Time	1/5s - 1/20,000s
	Lens (IR Corrective)	Fixed 2.8mm - Angle of View 100° -
	Camera Bracket Adjustment	Pan: 0°~360°, Tilt: 0°~90°, Rotation: 0°~360°
	Day & Night	Yes - True Day/Night with IR Filter - Auto Switch
	DNR (Digital Noise Reduction)	2DNR & 3DNR, Auto / Manual (0-100 Adjustable)
	True Wide Dynamic Range (120dB)	On / Off (0-100 Adjustable)
	BLC (Backlight Compensation)	On / Off (0-100 Adjustable)
	Smart Analytic Features	Virtual Fence, Advanced Motion Detection
Resolution/Bitrate	Region of Interest	Yes
	Video Compression	H.265, H.264, MJPEG (for both stream types)
	Max. Resolution	2560 x 1440 (4MP)
	Mainstream Resolution	
	Substream Resolution	704x576, 640x360, 480x360, 352x288 @ 25FPS
Network	Video Bitrate	Main: 128kbps ~ 6144kbps Sub: 16kbps ~ 1536kbps
	Protocols	IPv4, HTTP, HTTPS, TCP/UDP, RTSP, DHCP, NTP, RTCP/RTMP, SMTP, DNS, UPnP, SNMP
	General Function	Supports Mirror, Aisle Mode, Smart IR, Password Protection, Privacy Mask, Motion Detection
	Users	Up to 4 Users
	Client Software	NorthernView CMS, NorthernView Mobile App, NorthernView Tools
	Web Browser	IE11, Chrome, Firefox
	Communication Interface	1 Ethernet (10/100 Base-T) RJ-45 Connector
	Operating Conditions	-15°C ~ 55°C (5°F ~ 131°F), Less than 90% RH
	Power Supply	12VDC / POE (IEEE 802.3af)
	Power Consumption & Current	2W (IR LED OFF), 4W Max (IR LED ON)
General	Weatherproof Rating	IP66
	Housing Material / Color	Aluminum / White
	Overall Camera Dimensions	Φ.7" x 3.3" (Φ4 x 84mm)
	Weight	0.77lb / 350g
	Certifications	CE / FCC

N2 Series 2MP IP, True WDR Outdoor 30X PTZ Camera with POE, 600' IR, IP66

FEATURES:

- ◆ Full HD 1080p Real Time Video
- ◆ True 120dB Wide Dynamic Range
- ◆ Intelligent Auto Tracking
- ◆ 30X Optical Zoom (4.5 ~135mm)
- ◆ POE Power Over Ethernet
- ◆ Included HI-POE Injector
- ◆ Included Wall Mount
- ◆ Free CMS Software
- ◆ True D/N Mechanical IR Cut Filter
- ◆ 10 High Power IR LED's, 600' IR Range
- ◆ 360° Endless Panning
- ◆ 400 Preset Postions
- ◆ 6 Tracks, 12 Tours, 12 Scans
- ◆ Audio Line In/Out
- ◆ 7 Alarm Inputs / 2 Outputs
- ◆ Built in Heater & Fan
- ◆ -40° Operating Temperature
- ◆ IP66 Weatherproof

INCLUDED ACCESSORIES:

Quick Setup Guide, Wall Mount, Hi POE In-jector, Slotted Screw Driver, Gloves, Stainless Hex Screw M5*9mm, Stainless Hex Screw M6*14mm x3, Terminal Block x2, Bracket Connector x3

OPTIONAL MOUNTING ACCESSORIES:

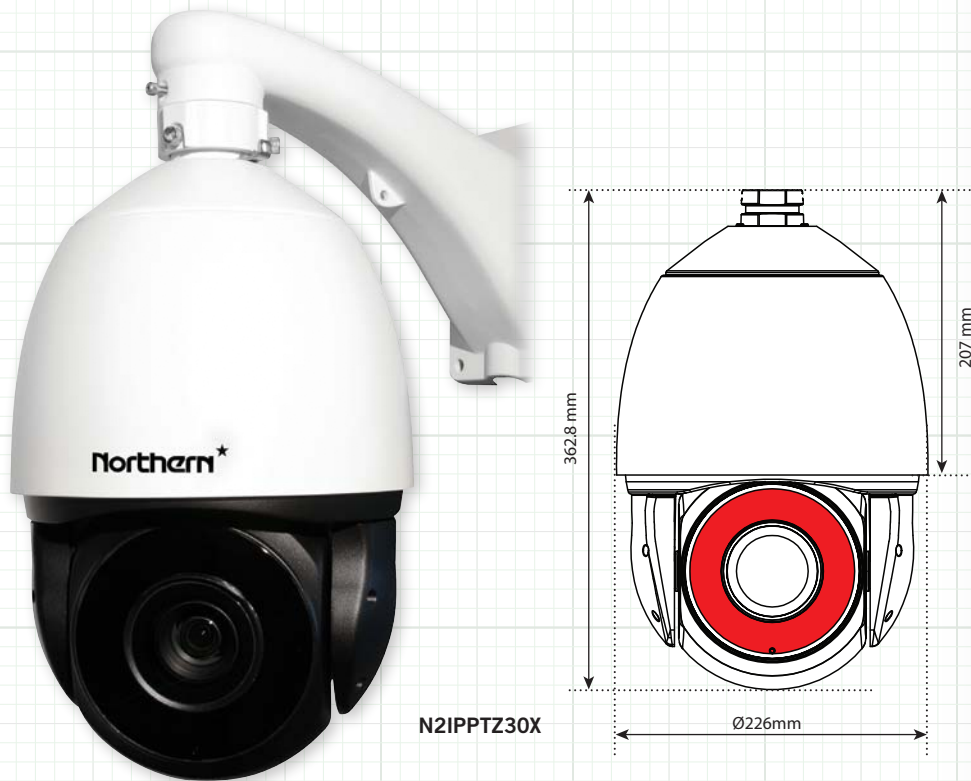
N2PTZPOLEMT - PTZ Pole Mount *

N2PTZCRNMT - PTZ Outside Corner Mount *

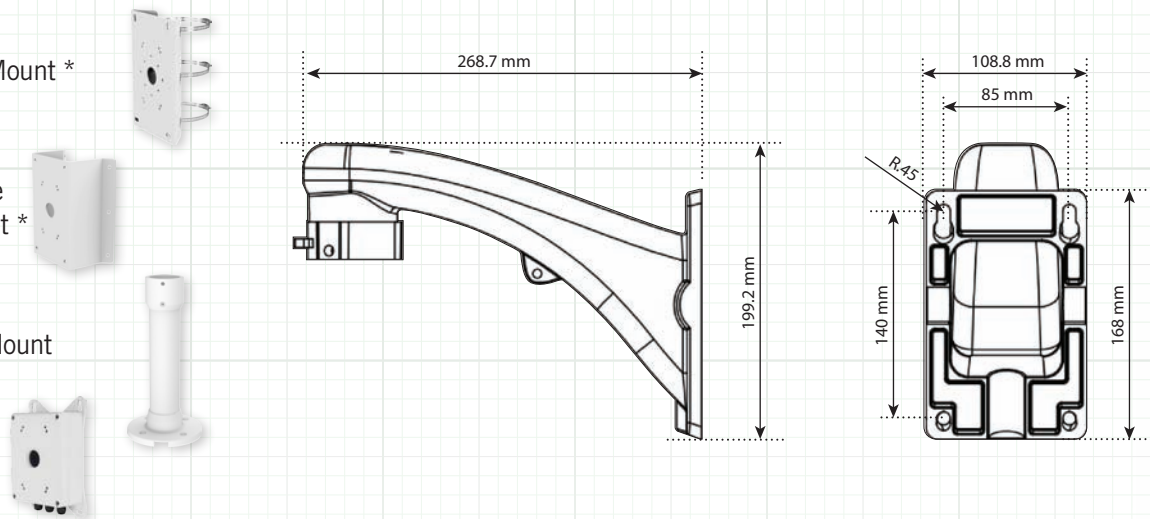
N2PTZPENDMT - Pendant Mount

N2PTZJB - Junction Box

* Pole & Corner Mount are compatible with HDPTZ33X wall mount & N2PTZJB



WALL MOUNT DIMENSIONS:



N2IPPTZ30X Specifications

	SPECIFICATION	N2IPPTZ30X
Camera	Image Sensor	1/2.8" Progressive Scan CMOS
	Image Resolution	2 Megapixel, 1920 x 1080 Max
	Min. Illumination	Color: 0.01Lux @(F1.2, AGC ON), B/W: 0.0 Lux (IR LED ON)
	White Balance	Auto / Tungsten / Daylight / Manual (Red & Blue Gain Adjustable)
	AGC	Auto / Manual (0 - 100 Adjustable)
	S/N Ratio	55dB
	2DNR & 3DNR	Auto / Manual (0 - 100 Adjustable)
	BLC & HLC	Yes (0 - 100 Adjustable)
	True WDR	Yes 120dB (0 - 100 Adjustable)
	Defog	Yes (0 - 100 Adjustable)
	Shutter Speed	Auto / Manual, 1/5 - 1/20,000s
	True Day & Night	Yes - Mechanical IR Cut Filter
	Optical / Digital Zoom	30X Optical Zoom - 16x Digital Zoom
	Privacy Mask	Yes - On / Off, 4 Area, Size & Color Adjustable
Lens	Focus Mode	Auto, Manual, Semi-Auto, Sensitivity Adjustable (0 - 100)
	Auto Tracking	Yes
	Focal Length	4.5 ~ 135mm, F1.6 ~ F4.4
	Zoom Speed	Approx. 4 sec. (Optical, Wide-Tele)
Pan & Tilt	Angle of View	Horizontal: 59.8° ~ 2.3°
	Min. Working Distance	1.5 Meters
	Pan / Tilt Range	Pan: 0° ~ 360° endless, Tilt: -10° ~ +90°
	Pan / Tilt Speed	Manual: Pan: 0.1° ~180° /s, Tilt: 0.1° ~90° /s, Preset: Pan: 180° /s, Tilt: 90° /s
Input / Output	Proportional Zoom	Rotation Speed Adjusted Automatically According to Zoom
	Number of Presets	400
	Idle Action	Activates: Preset / Scan / Tour / Track if no command in the specified period
	Track / Tour / Scan	6 -Tracks (Custom Pattern) / 12 Tours (Preset Pos.) / 12 Scans (Custom Pattern)
IR	Power-off Memory	On/Off - Preset, Scan, Track, Tour Selectable
	Position Display	Yes
	Scheduled Tasks	Up to 8/Day Preset, Scan, Track, Tour
	IR Distance	600'
Network	IR Intensity	Automatically Adjusted, Depending on the Zoom Ratio
	Alarm Input / Output	7 Ch Input / 2 Ch Output
	Alarm Trigger	Perimter, Single & Double Virtual Fence, Loiter & Multi-Loiter, Object Left & Removal, Abnormal Speed, Illegal Parking
	Alarm Actions	Preset, Track, Tour, Scan, Recording, Relay Output, Email Linkage
General	Audio Input / Output	1x RCA Female / 1x RCA Female
	Ethernet	1 Ethernet (10/100 Base-T) RJ-45 Connector
	Frame Rate	Stream 1: 1920x1080/1280x720 @25/30fps Stream 2: D1/VGA/640x360/CIF/QVGA @25/30fps Stream 3: VGA/CIF/QVGA @25/30fps
	Compression	H.265, H.264, MJPEG
General	ROI	Yes
	Audio Compression	G.711, RAW_PCM
	Protocols	IPv4/IPv6, 802.1x, HTTP, HTTPS, TCP/IP, UDP/IP, RTSP, DHCP, NTP, RTCP/RTP, PPPoE, SMTP, DNS, UPnP, FTP, ARP, SNMP, Onvif
	Simultaneous View	10 Max
General	SD Card	Yes - Micro SD card slot - 128GB Max (Card not included)
	Users	10 Max
	Security	User Authentication (ID & Password), IP Filter (Black/White List), HTTPS
	Web Browser	<IE11, Chrome, Firefox
General	Power Input	AC24V/Hi-POE
	Power Consumption	/ Less than 40W
	Operating Temp	-40°C ~ 60°C (-40°F ~ 140 °F)
	Protection Level	IP66, TVS4000V
General	Dimensions	Ø26x362.8mm (2.9" x 14.28")
	Certifications	CE / FCC
General	Weight (approx.)	5.2Kg (11.4lb)

Note: Specification subject to change without notice

- N2HVR4
4-Channel 5-in-1 Hybrid DVR
- N2HVR8
8-Channel 5-in-1 Hybrid DVR
- N2HVR16
16-Channel 5-in-1 Hybrid DVR



FEATURES:

- ◆ Compatible with TVI, CVI, AHD & 960H Formats
- ◆ Up to 5MP Lite Analog Recording @ 10FPS
- ◆ Up to 1080p Analog Recording @ 15FPS
- ◆ Full Hybrid - All Channels Analog or IP
- ◆ Up to 1080p IP Camera Recording
- ◆ Up to 8TB Storage Capacity (4Ch)
- ◆ Up to 16TB Storage Capacity (8Ch & 16Ch)
- ◆ H.264 & H.265 Recording Compression
- ◆ NorthernView Mobile App for iPhone, iPad & Android™
- ◆ Compatible with IE Browser
- ◆ Built-in Motion Detection & Privacy Mask
- ◆ UTC Control (Camera Dependent)
- ◆ Up to 16Ch Synchronous Playback
- ◆ Free CMS Software Included
- ◆ Supports P2P Operation
- ◆ Included Mouse for Control
- ◆ Front & Rear USB
- ◆ HDMI & VGA Main Monitor Outputs
- ◆ BNC Spot Monitor Output
- ◆ Built in Audio / Built in Alarm (8 & 16 Ch.)



Free CMS Software



N2HVR Series CMS Software shown on Northern* LED21HDMI

Learn More

5-in-1 Compatibility

N2HVR Series is compatible with IP Cameras and the following HD Analog Camera Formats: TVI, CVI, AHD & 960H.

Mobile Apps for iPhone, iPad & Android™

View & Playback Video from multiple mobile devices with the Free NorthernView mobile app.

Up to 16TB Storage Capacity

Large Hard Disk storage capacity allows for longer storage of recorded video. 16TB Max for 8 & 16 Channel, 8TB Max for 4 Channel Models.

H.265 Compression

H.265 compression format provides both increased video quality and reduced bandwidth consumption.

Up to 5MP Analog Recording

See increased detail with up to 5MP Lite recording on all N2HVR Series recorders. (10FPS Max).

Free CMS Software for PC & Mac

Connect to multiple DVR's from a single computer with the included N2 CMS software. Also compatible with all N2 Series Northern IP Cameras & N2 Series NVR's.

HDMI, VGA & BNC Monitor Outputs

Simultaneously display video via HDMI, VGA and BNC main monitor output.

P2P Operation

Peer to Peer function in NorthernView app makes set up easier by bypassing the need to configure port forwarding in most routers.

Remote Accessibility

Remotely connect, monitor, playback, record and change DVR settings via IE browser.

UTC Control of Camera OSD

Up the Coax control can be used to access the OSD menu and configure cameras settings from the DVR locally or remotely.

Additional IP Recording

4 Channel models can record an additional 2 IP cameras. 8 Channel models can record an additional 4 IP Cameras and 16 Channel models can record up to 8 IP cameras.

Full Hybrid Recorders

Disabling all Analog Channels allows for recording up to 6 IP Cameras on 4 Ch models, 12 IP Cameras on 8Ch models and 24 IP Cameras on 16Ch models.

Supports DDNS

DDNS insures you will always stay connected to your DVR when using a Dynamic IP address.

CMS Software For PC/Mac



Browser Based Remote Software



Hard Drive Configurations & Part Numbers / Package Contents

DRIVE SIZE	4 Channel	8 Channel	16 Channel
2TB	N2HVR42T	N2HVR82T	N2HVR162T
4TB	N2HVR44T	N2HVR84T	N2HVR164T
6TB	N2HVR46T	N2HVR86T	N2HVR166T
8TB	N2HVR48T	N2HVR88T	N2HVR168T
12TB	N/A	N2HVR812T	N2HVR1612T
16TB	N/A	N2HVR816T	N2HVR1616T

PACKAGE CONTENTS

1. Power Supply / Cord

1. Quick Start Manual

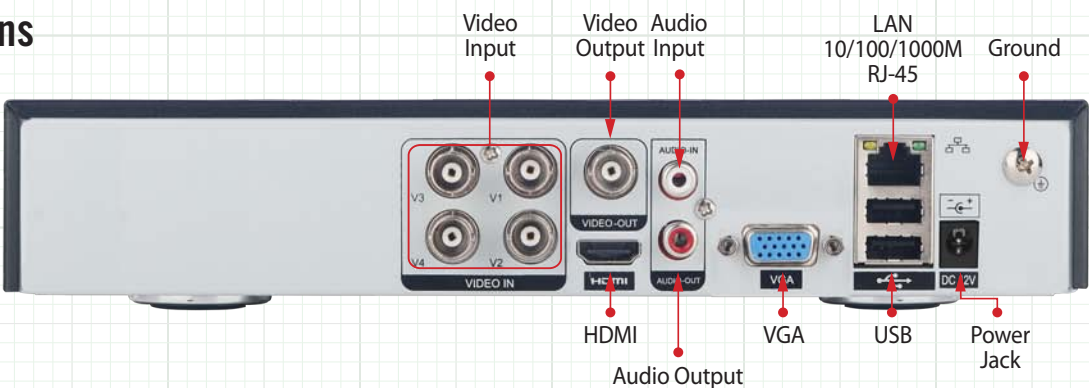
2. Rack Mount Ears (8 & 16Ch)

1. Mouse

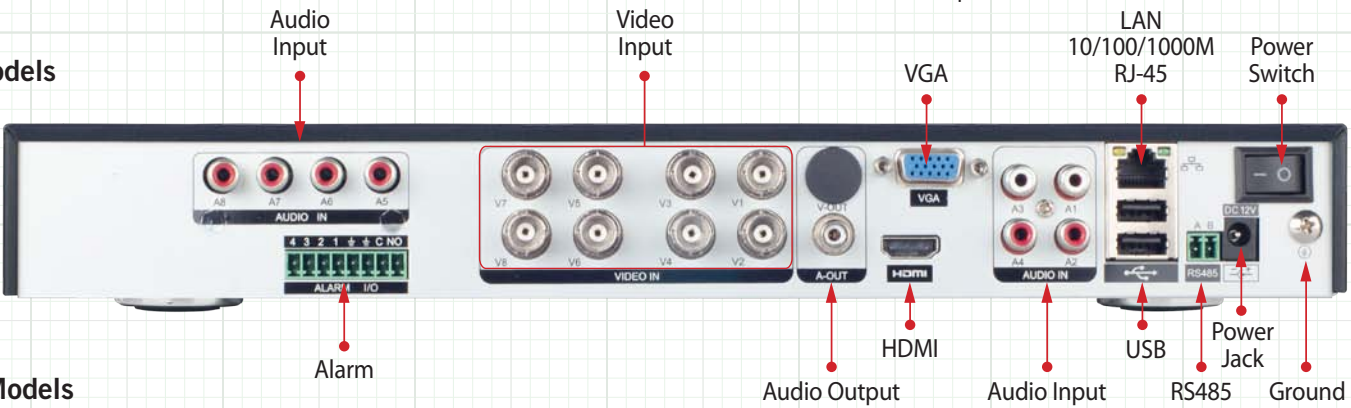


Rear Panel Connections

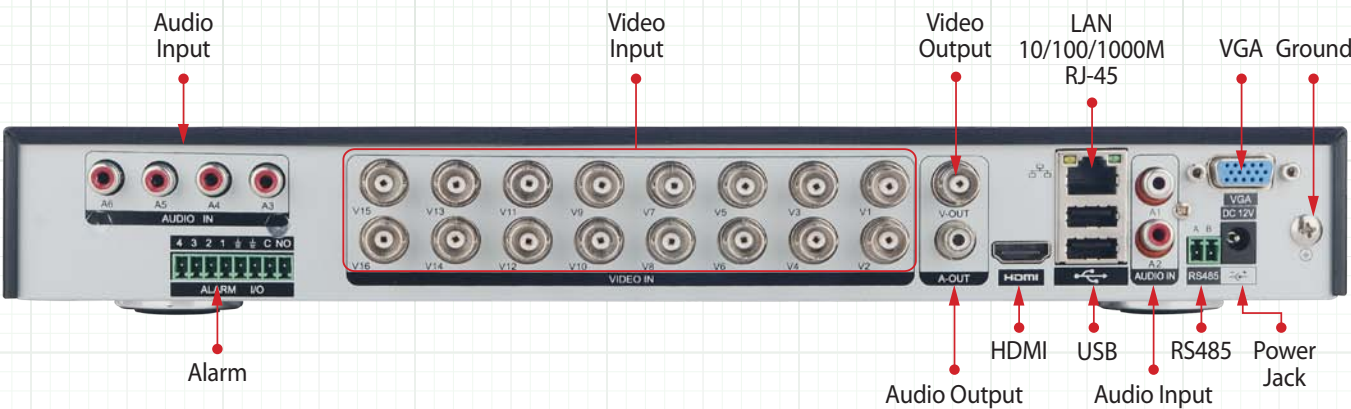
4 Ch. Models



8 Ch. Models



16 Ch. Models



	FEATURES	N2HVR4	N2HVR8	N2HVR16
Video/Audio Input	Video Compression	H.265+, H.265, H.264+, H.264		
	Analog Video Input	4-Channel	8-Channel	16-Channel
		BNC Interface (1.0Vp-p, 75Ω)		
	TVI/CVI/AHD/Formats	5MP / 4MP / 3MP / 1080p / 720p		
	960H Format	PAL / NTSC		
	IP Channels (1080p Max)	4+2	8+4	16+8
	Audio Compression	G.711A		
	Audio Input	1-Ch. RCA Input	8-Ch RCA Inputs	6-Ch RCA Inputs
Video/Audio Output	BNC Output	1x CVBS 640x480 Max	N/A	1x CVBS 640x480 Max
	HDMI Output	1x HDMI 3840x2160, 1920x1080, 1440x900, 1280x1024		
	VGA Output	1x VGA 1920x1080, 1280x1024, 1280x720		
	Frame Rate	Main Stream: 10FPS @ 5MP Lite, 7FPS @ 4MP, 15 FPS @ 1080p/720p		
		Sub Stream: 15FPS @ 704x480, 640x360, 480x270, 352x288		
	Record Resolution	960x576(960H), 1280x720(720p), 1280x1440(4MP-Lite), 1920x1080(1080p), 1280x1920(5MP-Lite), 2560x1440(4MP)		
	Video Bit Rate	Main Stream: 126Kbps ~ 6144Kbps / Sub Stream: 16Kbps ~ 1024Kbps		
	Audio Output	1-Channel RCA Output		
	Audio Bit Rate	128kbps		
	Dual Stream	Yes - Supports		
	Stream Type	Video / (Audio Recording Stream Enabled via Record Setup)		
	Synchronous Playback	4 Channel	8 Channel	16 Channel
	Multi Screen Viewing	1, 4, 6	1, 4, 8, 12	1, 4, 8, 9, 16, 24, 25
Network Mgmt.	Remote Connections	Up to 4 Simultaneous Connections		
	Network Protocols	HTTP, HTTPS, TCP/IP, IPv4, UPnP, UDP, RTSP, SMTP, NTP, DNS, DHCP, P2P, IP Filter, DDNS, 802.1X, SNMP		
Hard Disk	SATA	1 x SATA	2 x SATA	
	Capacity	Up to 8TB	Up to 16TB	
Ext. Interface	Network Interface	1 RJ-45 port (10/100Mbps)		
	USB Interface	USB x 2 (Front & Rear)		
	Serial Interface	N/A	1 x RS485	
	Alarm In/Out	N/A	4 In / 1 Out	
	Mobile App	NorthernView Mobile App for iPhone, iPad & Android™		
General	Power Supply	DC 12Volt, 2Amp	DC 12Volt, 4Amp	
	Consumption (no drives)	Max 5W	Max 10W	
	Operating Temp	-10 °C ~ 50 °C (14 °F ~ 122 °F)		
	Operating Humidity	Less than 90% RH		
	Dimensions (L x W x H)	2.1"x 9.6"x 1.7" (55 x 244 x 44mm)	13.8" 12" x 1.9" (350 x 305 x49mm)	
	Certifications	CE / FCC		
	Chassis	Non Rack Mount	1U Rack Mountable	
	Weight (no drives)	1.9lb, 900g	3.9lb, 1.8kg	5.5lb, 2.5kg

Note: Specification subject to change without notice

N2HVR 4 & 8 Channel Kits



N2HVR4KIT4C
4 Channel KIT



KIT INCLUDES:
4-Channel N2HVR w/ 2TB Storage
4 x 1080p 2.8mm Eyeball Cameras w/ 60' IR

N2HVR8KIT6C
8 Channel KIT



KIT INCLUDES:
8-Channel N2HVR w/ 2TB Storage
*6 x 1080p 2.8mm Eyeball Cameras w/ 60' IR

CAMERA FEATURES (HDEIR60):

- ◆ Multi Format (TVI, CVI, AHD, 960H)
- ◆ True Day/Night Mechanical IR Cut Filter
- ◆ 2.8mm Fixed Focal IR Lens
- ◆ 18 IR LED's / 60' IR Range
- ◆ UTC & Joystick Controllable OSD
- ◆ 3D Digital Noise Reduction
- ◆ 12 Volt DC Power
- ◆ IP66 Weatherproof

Full Secifications on Page 23



GUARDING VISION
Free Mobile App for iPhone,
iPad, Android & Android Tablets

NVR FEATURES (N2HVR4/N2HVR8):

- ◆ Up to 1080p Analog Recording @ 15FPS
- ◆ 2 Terabyte Included Storage
- ◆ H.265 Recording Compression
- ◆ NorthernView Mobile App for iPhone, iPad & Android™
- ◆ Built-in Motion Detection & Privacy Mask
- ◆ Up to 8 Channel Synchronous Playback
- ◆ Free CMS Software Included
- ◆ Supports P2P Operation
- ◆ Included Mouse for Control
- ◆ Dual USBs for Copying Video/Mouse Control
- ◆ Simultaneous HDMI & VGA Outputs
- ◆ UTC Control of Cameras OSD

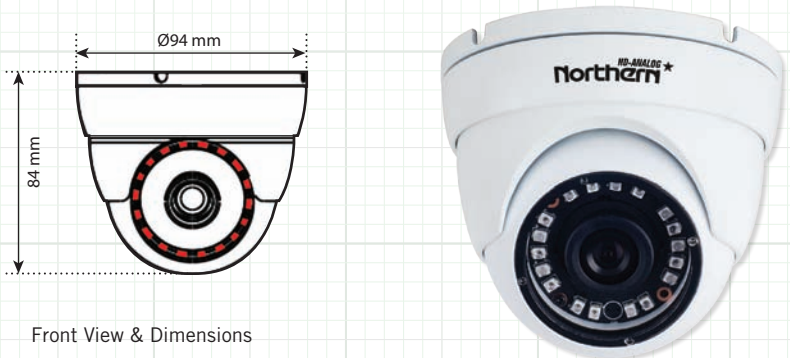
Full Secifications on Pages 18-21

* Customize Your Kit with 2 Additional **Northern** N2 Series HD Analog Cameras (see pages 23-42, sold separately)



HDEIR60

4-in-1, Full HD 1080p Outdoor Eyeball Camera
D-WDR, 2.8mm IR Lens, 60' IR Range



FEATURES:

- ◆ Multi Format (TVI, CVI, AHD, 960H)
- ◆ True Day/Night Mechanical IR Cut Filter
- ◆ 2.8mm Fixed Focal IR Lens
- ◆ 18 IR LED's / 60' IR Range
- ◆ UTC & Joystick Controllable OSD
- ◆ 3D Digital Noise Reduction
- ◆ 12 Volt DC Power
- ◆ IP66 Weatherproof

SPECIFICATION	HDEIR60
Image Sensor	1/2.8" CMOS Sensor
Total Pixels	1984 x 1225
Active Pixels	1920 x 1080
Resolution	1920 x 1080 (1080p)
Scanning System	Progressive Scan
OSD (On Screen Display)	Dual OSD Access: Cable OSD Controlled / UTC Controlled (coaxial control)
D-WDR (Digital Wide Dynamic Range)	Open/Close
DNR (Digital Noise Reduction)	3D DNR - Auto, Manual (0~10)
Video Output	TVI, CVI, AHD & 960H (Selectable via OSD Cable)
Lens Type / Viewing Angle	2.8mm IR Lens - H: 105° V: 56°
IR Cut Filter	Built in Mechanical
Minimum Illumination	Color 0.01 Lux, B/W 0.0 Lux, IR LED ON
IR LED Count / Range	18 IR LED's / 60' Range / 850nm
S/N Ratio	More than 48dB
Sync System	Internal
Gamma Characteristics	γ = 0.45 typ
White Balance	Gray/Pro/ MWB - R & B Gain 0~127 Adjustable
Back Light Compensation	Global / BLC 0-7 Adjustable
Day/Night	EXT / Auto / Color / B/W
Languages	English, French, Spanish, German, Italian (see OSD Menu for more)
Brightness	0 ~100 Adjustable
Power Input	12VDC Only
Power Requirement	100mA /280 mA IR LED ON
Overall Camera Dimensions	3.7" x 3.3" (ø94 x 84mm)
Housing / Color	Aluminum / White
Weight	0.7lb / 318g
Operating Temperature	-14°F ~ 131°F
Weatherproof Rating	IP66
Operating Temperature	-14°F ~ 131°F
Weatherproof Rating	IP67

INCLUDED ACCESSORIES:

Camera, User Manual, Mounting Screws.

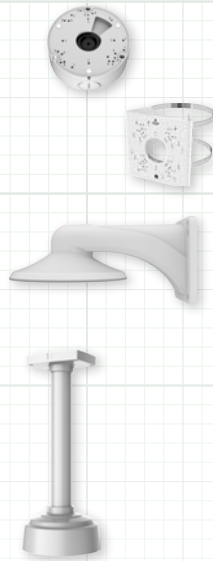
OPTIONAL MOUNTING ACCESSORIES:

N2BB - Back Box

N2POLEMT - Pole Mount
(Requires N2WM)

N2WM - Wall Mount

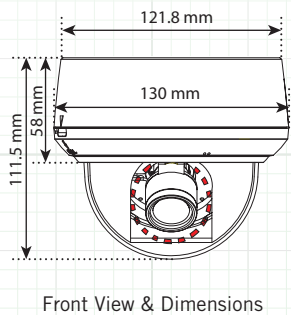
N2PM - Pendent Mount



4-in-1, Full HD 1080p Outdoor Varifocal Dome Camera
True WDR, 2.8~12mm Autofocus IR Lens, 90' IR Range

FEATURES:

- ◆ Multi Format (TVI, CVI, AHD, 960H)
- ◆ True 120dB Wide Dynamic Range
- ◆ True Day/Night Mechanical IR Cut Filter
- ◆ 2.8~12mm Autofocus IR Lens
- ◆ 15 IR LED's / 90' IR Range
- ◆ UTC & Joystick Controllable OSD
- ◆ 3D Digital Noise Reduction
- ◆ 12VDC/24VAC Dual Voltage Power
- ◆ 3-Axis Wall or Ceiling Mountable
- ◆ IP67 Weatherproof, IK10 Impact Ratings



INCLUDED ACCESSORIES:

Camera, User Manual, Mounting Screws.

OPTIONAL MOUNTING ACCESSORIES:

N2BB - Back Box



N2POLEMT - Pole Mount
(Can be Used with or without N2WMAFD Wall Mount.)

N2WMAFD - Wall Mount



N2PM - Pendant Mount

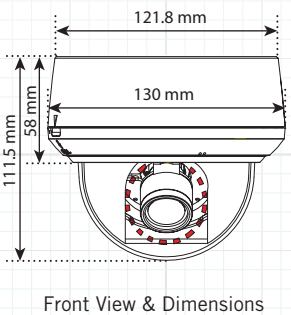
SPECIFICATION	HDAFDIR90WD
Image Sensor	1/2.8" CMOS Sensor
Total Pixels	1984 x 1225
Active Pixels	1920 x 1080
Resolution	1920 x 1080 (1080p)
Scanning System	Progressive Scan
OSD (On Screen Display)	Dual OSD Access: Cable OSD Controlled / UTC Controlled (coaxial control)
True WDR (Wide Dynamic Range)	Yes- 120dB
DNR (Digital Noise Reduction)	3D DNR - Auto, Manual (0~30), Off
Video Output	TVI, CVI, AHD & 960H (Selectable via OSD Cable)
Lens Type / Viewing Angle	2.8~12mm IR Lens - H: 35° - 105°
Shutter Speed	Auto, Manual 1/25 ~ 1/10,000
IR Cut Filter	Built in Mechanical
Minimum Illumination	Color 0.001 Lux, B/W 0.0 Lux, IR LED ON
IR LED Count / Range	15 IR LED's / 90' Range / 850nm
S/N Ratio	More than 50dB
Automatic Gain Control	Auto, Manual 0 ~16 Adjustable
Sync System	Internal
Gamma Characteristics	y = 0.45 typ
White Balance	ATW, MWB - R & B Gain 0~32 Adjustable
Back Light Compensation	Globe / BLC / 1~8 Adjustable
Day/Night	EXT / Auto / Color / B/W
Languages	English, French, Spanish, German, Italian (see OSD Menu for more)
Brightness	0 ~30 Adjustable
Power Input	12VDC/24VAC Dual Voltage Power
Power Requirement	180mA /290 mA IR LED ON
Overall Camera Dimensions	5.1" x 4.4" (φ 130 x 112mm)
Housing / Color	Plastic / White
Weight	1.6lb / 725g
Operating Temperature	-14°F ~ 131°F
Weatherproof / Impact Rating	IP67/IK10

Note: Specification subject to change without notice

4-in-1, Full HD 1080p Indoor Varifocal Dome Camera
True WDR, 2.8~12mm Autofocus IR Lens, 90' IR Range

FEATURES:

- ◆ Multi Format (TVI, CVI, AHD, 960H)
- ◆ True 120dB Wide Dynamic Range
- ◆ True Day/Night Mechanical IR Cut Filter
- ◆ 2.8~12mm Autofocus IR Lens
- ◆ 15 IR LED's / 90' IR Range
- ◆ UTC & Joystick Controllable OSD
- ◆ 3D Digital Noise Reduction
- ◆ 12VDC/24VAC Dual Voltage Power
- ◆ 3-Axis Wall or Ceiling Mountable
- ◆ Indoor Only

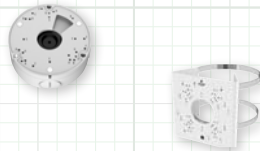


INCLUDED ACCESSORIES:

Camera, User Manual, Mounting Screws.

OPTIONAL MOUNTING ACCESSORIES:

N2BB - Back Box



N2POLEMT - Pole Mount
(Can be Used with or without N2WMAFD Wall Mount.)

N2WMAFD - Wall Mount



N2PM - Pendant Mount

SPECIFICATION	HDAFDIR90INWD
Image Sensor	1/2.8" CMOS Sensor
Total Pixels	1984 x 1225
Active Pixels	1920 x 1080
Resolution	1920 x 1080 (1080p)
Scanning System	Progressive Scan
OSD (On Screen Display)	Dual OSD Access: Cable OSD Controlled / UTC Controlled (coaxial control)
True WDR (Wide Dynamic Range)	Yes- 120dB
DNR (Digital Noise Reduction)	3D DNR - Auto, Manual (0~30), Off
Video Output	TVI, CVI, AHD & 960H (Selectable via OSD Cable)
Lens Type / Viewing Angle	2.8~12mm IR Lens - H: 35° - 105°
Shutter Speed	Auto, Manual 1/25 ~ 1/10,000
IR Cut Filter	Built in Mechanical
Minimum Illumination	Color 0.001 Lux, B/W 0.0 Lux, IR LED ON
IR LED Count / Range	15 IR LED's / 90' Range / 850nm
S/N Ratio	More than 50dB
Automatic Gain Control	Auto, Manual 0 ~16 Adjustable
Sync System	Internal
Gamma Characteristics	y = 0.45 typ
White Balance	ATW, MWB - R & B Gain 0~32 Adjustable
Back Light Compensation	Globe / BLC / 1~8 Adjustable
Day/Night	EXT / Auto / Color / B/W
Languages	English, French, Spanish, German, Italian (see OSD Menu for more)
Brightness	0 ~30 Adjustable
Power Input	12VDC/24VAC Dual Voltage Power
Power Requirement	180mA /290 mA IR LED ON
Overall Camera Dimensions	5.1" x 4.4" (φ 130 x 112mm)
Housing / Color	Plastic / White
Weight	1.0lb / 454g
Operating Temperature	14°F ~ 131°F
Weatherproof Rating	Indoor Only

4-in-1, Full HD 1080p Outdoor Turret Camera
True WDR, 2.8mm IR Lens, 90' IR Range

FEATURES:

- ◆ Multi Format (TVI, CVI, AHD, 960H)
- ◆ True 120dB Wide Dynamic Range
- ◆ True Day/Night Mechanical IR Cut Filter
- ◆ 2.8mm Fixed Focal IR Lens
- ◆ 1 High Power IR LED / 90' IR Range
- ◆ UTC & Joystick Controllable OSD
- ◆ 3D Digital Noise Reduction
- ◆ 12 Volt DC Power
- ◆ IP67 Weatherproof

INCLUDED ACCESSORIES:

Quick Guide, Mounting Template, Hardware Packet, Adjustment Wrench, Water-proof Connector.

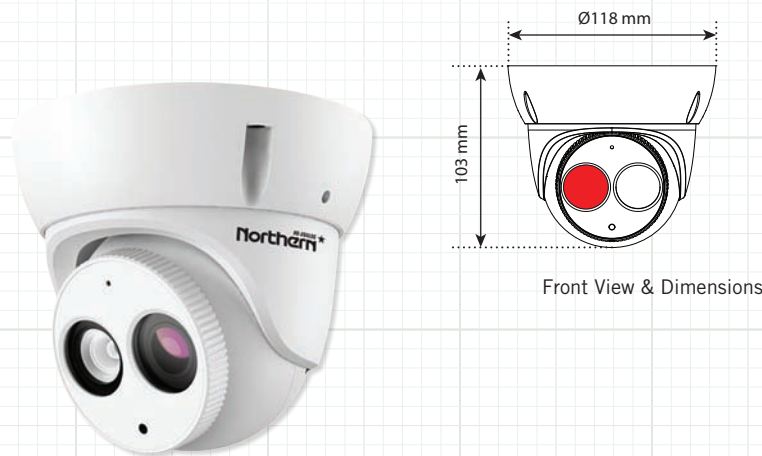
OPTIONAL MOUNTING ACCESSORIES:

N2BB - Back Box

N2POLEMT - Pole Mount
(Requires N2WM)

N2WM - Wall Mount

N2PM - Pendent Mount



SPECIFICATION	HDTIR90WD
Image Sensor	1/2.8" CMOS Sensor
Total Pixels	1984 x 1225
Active Pixels	1920 x 1080
Resolution	1920 x 1080 (1080p)
Scanning System	Progressive Scan
OSD (On Screen Display)	Dual OSD Access: Cable OSD Controlled / UTC Controlled (coaxial control)
True WDR (Wide Dynamic Range)	Yes- 120dB
DNR (Digital Noise Reduction)	3D DNR - Auto, Manual (0~30), Off
Video Output	TVI, CVI, AHD & 960H (Selectable via OSD Cable)
Lens Type / Viewing Angle	2.8mm IR Lens - H: 108.9° V: 58.8°
Shutter Speed	Auto, Manual 1/25 ~ 1/10,000
IR Cut Filter	Built in Mechanical
Minimum Illumination	Color 0.001 Lux, B/W 0.0 Lux, IR LED ON
IR LED Count / Range	1 High Power IR LED / 90' Range / 850nm
S/N Ratio	More than 50dB
Automatic Gain Control	Auto, Manual 0 ~16 Adjustable
Sync System	Internal
Gamma Characteristics	y = 0.45 typ
White Balance	ATW, MWB - R & B Gain 0~32 Adjustable
Back Light Compensation	Globe / BLC / 1~8 Adjustable
Day/Night	EXT / Auto / Color / B/W
Languages	English, French, Spanish, German, Italian (see OSD Menu for more)
Brightness	0 ~30 Adjustable
Power Input	12VDC Only
Power Requirement	120mA /250 mA IR LED ON
Overall Camera Dimensions	4.6" x 4.1" (ø118 x 103mm)
Housing / Color	Aluminum / White
Weight	1.2lb / 550g
Operating Temperature	-14°F ~ 131°F
Weatherproof Rating	IP67

Note: Specification subject to change without notice

4-in-1, Full HD 1080p Outdoor Bullet Camera
True WDR, 2.8mm IR Lens, 60' IR Range

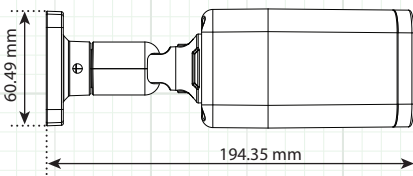
FEATURES:

- ◆ Multi Format (TVI, CVI, AHD, 960H)
- ◆ True 120dB Wide Dynamic Range
- ◆ True Day/Night Mechanical IR Cut Filter
- ◆ 2.8mm Fixed Focal IR Lens
- ◆ 24 IR LED's / 60' IR Range
- ◆ UTC & Joystick Controllable OSD
- ◆ 3D Digital Noise Reduction
- ◆ 12 Volt DC Power
- ◆ IP67 Weatherproof

INCLUDED ACCESSORIES:

Camera, User Manual, Mounting Screws.

CAMERA OVERVIEW:



OPTIONAL MOUNTING ACCESSORIES:

N2BB - Back Box

N2POLEMT -Pole Mount*



* Pole Mount can be used with N2BB Back Box



SPECIFICATION	HDBIR60WD
Image Sensor	1/2.8" CMOS Sensor
Total Pixels	1984 x 1225
Active Pixels	1920 x 1080
Resolution	1920 x 1080 (1080p)
Scanning System	Progressive Scan
OSD (On Screen Display)	Dual OSD Access: Cable OSD Controlled / UTC Controlled (coaxial control)
True WDR (Wide Dynamic Range)	Yes- 120dB
DNR (Digital Noise Reduction)	3D DNR - Auto, Manual (0~30), Off
Video Output	"TVI, CVI, AHD & 960H (Selectable via OSD Cable)"
Lens Type / Viewing Angle	2.8mm IR Lens - H: 108.9° V: 58.8°
Shutter Speed	Auto, Manual 1/25 ~ 1/10,000
IR Cut Filter	Built in Mechanical
Minimum Illumination	Color 0.001 Lux, B/W 0.0 Lux, IR LED ON
IR LED Count / Range	24 IR LED's / 60' Range / 850nm
S/N Ratio	More than 50dB
Automatic Gain Control	Auto, Manual 0 ~16 Adjustable
Sync System	Internal
Gamma Characteristics	y = 0.45 typ
White Balance	ATW, MWB - R & B Gain 0~32 Adjustable
Back Light Compensation	Globe / BLC / 1~8 Adjustable
Day/Night	EXT / Auto / Color / B/W
Languages	English, French, Spanish, German, Italian (see OSD Menu for more)
Brightness	0 ~30 Adjustable
Power Input	12VDC Only
Power Requirement	110mA /390 mA IR LED ON
Overall Camera Dimensions	7.7" x 2.5" (195mm x 63mm)
Housing / Color	Aluminum / White
Weight	1.08lb / 490g
Operating Temperature	-14°F ~ 131°F
Weatherproof Rating	IP67

4-in-1, Full HD 1080p Outdoor Varifocal Bullet Camera
True WDR, 2.8~12mm Autofocus IR Lens, 120' IR Range

FEATURES:

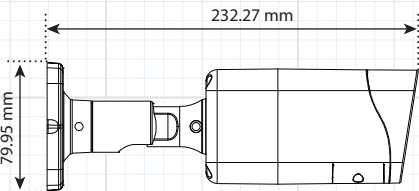
- ◆ Multi Format (TVI, CVI, AHD, 960H)
- ◆ True 120dB Wide Dynamic Range
- ◆ True Day/Night Mechanical IR Cut Filter
- ◆ 2.8~12mm Autofocus IR Lens
- ◆ 30 IR LED's / 120' IR Range
- ◆ UTC & Joystick Controllable OSD
- ◆ 3D Digital Noise Reduction
- ◆ 12VDC/24VAC Dual Voltage Power
- ◆ 3-Axis Cable Management Mount
- ◆ IP67 Weatherproof



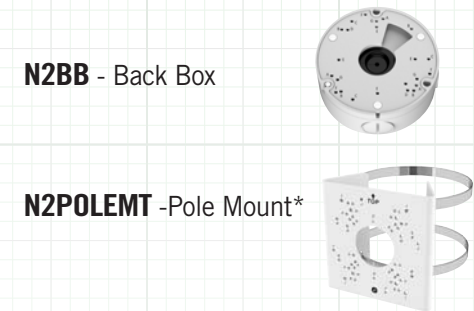
INCLUDED ACCESSORIES:

User Manual, Mounting Hardware Packet, Mounting Template.

CAMERA OVERVIEW:



OPTIONAL MOUNTING ACCESSORIES:



* Pole Mount can be used with N2BB Back Box

4-in-1, 1080p Outdoor 60' IR Bullet Camera
DWDR, True D/N, UTC, 3.6mm IR Lens

FEATURES:

- ◆ Multi Format (TVI, CVI, AHD, 960H)
- ◆ Full HD 1080p Resolution
- ◆ 18 IR LED's / 60' IR Range
- ◆ True Day/Night Mechanical IR Cut Filter
- ◆ Digital Wide Dynamic Range
- ◆ Cable Management Mount
- ◆ Sense-up / Slow Shutter Speed
- ◆ UTC & Joystick Controllable OSD
- ◆ 12 Volt DC Power
- ◆ 3D Digital Noise Reduction
- ◆ 1/2.9" Sony CMOS Sensor
- ◆ 3.6mm Fixed Focal Lens
- ◆ IP66 Weatherproof



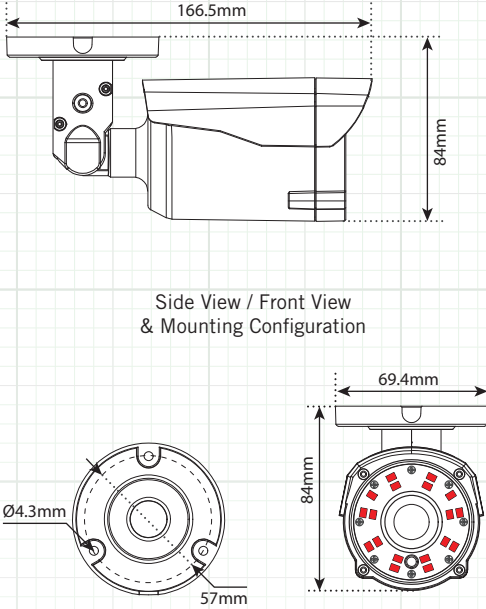
SPECIFICATION	HDBIR60
Image Sensor	1/2.9" CMOS Sensor
Total Pixels	1984 x 1225
Active Pixels	1920 x 1080
Resolution	1920 x 1080 (1080p)
Scanning System	Progressive Scan
OSD (On Screen Display)	Dual OSD Access: Cable Mounted Joystick Controlled / UTC Controlled (coaxial control)
Digital WDR (Wide Dynamic Range)	Auto / Off / On - 0 ~ 8 Adjustable
DNR (Digital Noise Reduction)	2D & 3D, Low, Middle, High, Off
Video Output	TVI, CVI, AHD & 960H (Selectable via OSD Joystick)
Lens Type - True Day Night	3.6mm Fixed Lens
Sense-up	Off / Auto (x2 ~ x30 Selectable)
Shutter Speed	Auto, FLK, 1/30 ~ 1/50,000, x2 ~ x30
IR Cut Filter	Built in Mechanical
Minimum Illumination	Color 0.1 Lux, B/W 0.05 Lux, IR LED ON 0.0 Lux
IR LED Count / Range	18 IR LED's / 60' Range / 850nm
S/N Ratio	More than 52dB
Automatic Gain Control	0 ~15 Adjustable
Sync System	Internal
Gamma Characteristics	y = 0.45 typ
White Balance	AWB / ATW / AWC->Set / Indoor / Outdoor / Manual
Back Light Compensation	Off / BLC / HSBLC
HBLC (High Back Light Compensation)	On / Off
Day/Night	EXT / Auto / Color / B/W
Mirror	Mirror / V-Flip / Rotate / Of
Languages	English, French, Spanish, German, Italian (see OSD Menu for more)
Brightness	0 ~100 Adjustable
Motion Detection	On/Off (4 Zone Selectable)
Privacy Mask	On/Off (4 Zone Selectable)
Power Input	12VDC Only
Power Requirement	150mA /550mA IR LED ON
Overall Camera Dimensions	6.6" x 2.7" x 3.3" (167mm x 70mm x 84mm)
Housing / Color	Aluminum - White
Weight	1.1lb
Operating Temperature	-14°F ~ 122°F
Weatherproof Rating	IP66

Note: Specification subject to change without notice

INCLUDED ACCESSORIES:

User Manual, Mounting Screws, Camera Bracket

CAMERA OVERVIEW:



HDBVFIR120



4-in-1, 1080p Outdoor 120' IR Bullet Camera
DWDR, True D/N, UTC, 2.8~12mm IR Lens

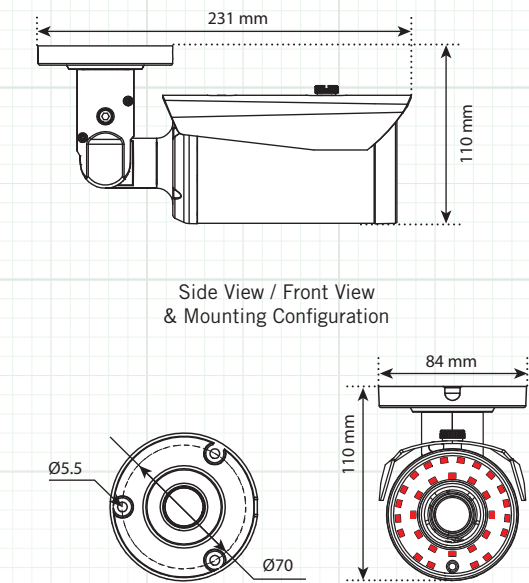
FEATURES:

- ◆ Multi Format (TVI, CVI, AHD, 960H)
- ◆ Full HD 1080p Resolution
- ◆ 30 IR LED's / 120' IR Range
- ◆ True Day/Night Mechanical IR Cut Filter
- ◆ Digital Wide Dynamic Range
- ◆ Cable Management Mount
- ◆ Sense-up / Slow Shutter Speed
- ◆ UTC & Joystick Controllable OSD
- ◆ 12 Volt DC Power
- ◆ 3D Digital Noise Reduction
- ◆ 1/2.9" Sony CMOS Sensor
- ◆ 2.8 ~ 12mm Varifocal Lens
- ◆ IP66 Weatherproof

INCLUDED ACCESSORIES:

User Manual, Mounting Screws, Camera Bracket

CAMERA OVERVIEW:



SPECIFICATION	HDBVFIR120
Image Sensor	1/2.9" CMOS Sensor
Total Pixels	1984 x 1225
Active Pixels	1920 x 1080
Resolution	1920 x 1080 (1080p)
Scanning System	Progressive Scan
OSD (On Screen Display)	Dual OSD Access: Cable Mounted Joystick Controlled / UTC Controlled (coaxial control)
Digital WDR (Wide Dynamic Range)	Auto / Off / On - 0 ~ 8 Adjustable
DNR (Digital Noise Reduction)	2D & 3D, Low, Middle, High, Off
Video Output	TVI, CVI, AHD & 960H (Selectable via OSD Joystick)
Lens Type - True Day Night	2.8 ~ 12mm Varifocal Lens
Sense-up	Off / Auto (x2 ~ x30 Selectable)
Shutter Speed	Auto, FLK, 1/30 ~ 1/50,000, x2 ~ x30
IR Cut Filter	Built in Mechanical
Minimum Illumination	Color 0.1 Lux, B/W 0.05 Lux, IR LED ON 0.0 Lux
IR LED Count / Range	30 IR LED's / 120' Range / 850nM
S/N Ratio	More than 52dB
Automatic Gain Control	0 ~15 Adjustable
Sync System	Internal
Gamma Characteristics	y = 0.45 typ
White Balance	AWB / ATW / AWC->Set / Indoor / Outdoor / Manual
Back Light Compensation	Off / BLC / HSBLC
HBLC (High Back Light Compensation)	On / Off
Day/Night	EXT / Auto / Color / B/W
Mirror	Mirror / V-Flip / Rotate / Of
Languages	English, French, Spanish, German, Italian (see OSD Menu for more)
Brightness	0 ~100 Adjustable
Motion Detection	On/Off (4 Zone Selectable)
Privacy Mask	On/Off (4 Zone Selectable)
Power Input	12VDC Only
Power Requirement	150mA /550mA IR LED ON
Overall Camera Dimensions	9.1" x 3.3" x 4.3" (231mm x 84mm x 110mm)
Housing / Color	Aluminum - White
Weight	1.6lb
Operating Temperature	-14°F ~ 122°F
Weatherproof Rating	IP66



HDMBIR120 / HDMBIR120W

4-in-1, Full HD 1080p Outdoor Bullet Camera
Semi Autofocus 2.8 ~ 12mm Lens, 120' IR Range

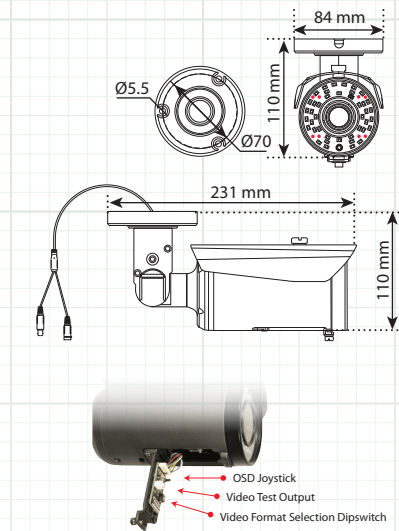
FEATURES:

- ◆ Multi Format (TVI, CVI, AHD, 960H)
- ◆ Semi-Autofocus 2.8 ~ 12mm Lens
- ◆ Full HD 1080p Resolution
- ◆ 42 IR LED's / 120' IR Range
- ◆ Easy Access OSD Hatch
- ◆ Video Test Output & Cable
- ◆ True Day/Night Mechanical IR Cut Filter
- ◆ Digital Wide Dynamic Range
- ◆ Cable Management Mount
- ◆ Sense-up / Slow Shutter Speed
- ◆ UTC & Joystick Controllable OSD
- ◆ 12 Volt DC Power
- ◆ 3D Digital Noise Reduction
- ◆ 1/2.9" Sony CMOS Sensor
- ◆ IP66 Weatherproof

INCLUDED ACCESSORIES:

User Manual, Video Test Cable, Adjustment Wrench, Mounting Screws.

CAMERA OVERVIEW:



SPECIFICATION	HDMBIR120	HDMBIR120W
Image Sensor	1/2.9" CMOS Sensor	
Total Pixels	1984 x 1225	
Active Pixels	1920 x 1080	
Resolution	1920 x 1080 (1080p)	
Scanning System	Progressive Scan	
OSD (On Screen Display)	Dual OSD Access: Cable Mounted Joystick Controlled / UTC Controlled (coaxial control)	
Digital WDR (Wide Dynamic Range)	Auto / Off / On - 0 ~ 8 Adjustable	
DNR (Digital Noise Reduction)	2D & 3D, Low, Middle, High, Off	
Video Output	TVI, CVI, AHD & 960H(Selectable via Dipswitch)	
Lens Type / Viewing Angle	TDN Semi Auto-Focus 2.8 ~ 12mm Lens / 28° ~ 90°	
Sense-up	Off / Auto (x2 ~ x30 Selectable)	
Shutter Speed	Auto, FLK, 1/30 ~ 1/50,000, x2 ~ x30	
IR Cut Filter	Built in Mechanical	
Minimum Illumination	Color 0.1 Lux, B/W 0.05 Lux, IR LED ON 0.0 Lux	
IR LED Count / Range	42 IR LED's / 120' Range / 850nM	
S/N Ratio	More than 52dB	
Automatic Gain Control	0 ~15 Adjustable	
Sync System	Internal	
Gamma Characteristics	y = 0.45 typ	
White Balance	AWB / ATW / AWC->Set / Indoor / Outdoor / Manual	
Back Light Compensation	Off / BLC / HSBLC	
HBLC (High Back Light Compensation)	On / Off	
Day/Night	EXT / Auto / Color / B/W	
Mirror	Mirror / V-Flip / Rotate / Off	
Languages	English, French, Spanish, German, Italian (see OSD Menu for more)	
Brightness	0 ~100 Adjustable	
Motion Detection	On/Off (4 Zone Selectable)	
Privacy Mask	On/Off (4 Zone Selectable)	
Power Input	12VDC Only	
Power Requirement	150mA /600mA IR LED ON	
Overall Camera Dimensions	9.1" x 3.3" x 4.3" (231mm x 84mm x 110mm)	
Housing / Color	Gray	White
Weight	1.6lb	
Operating Temperature	-14°F ~ 122°F	
Weatherproof Rating	IP66	

Note: Specification subject to change without notice

4-in-1 Full HD 1080p License Plate Capture Camera

OSD, True D/N - DWDR, IP66, Motorized 9~22mm Lens

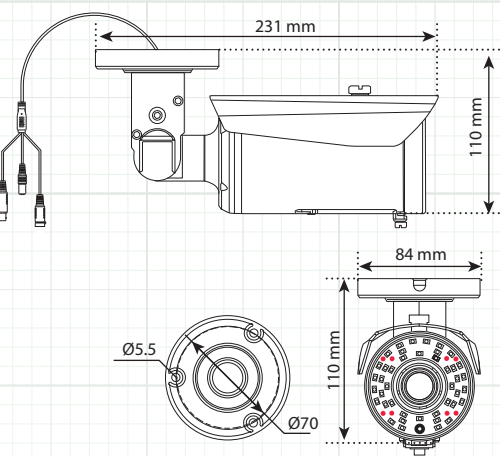
FEATURES:

- ◆ Multi Format (TVI, CVI, AHD, 960H)
- ◆ Full HD 1080p Resolution
- ◆ Motorized 9~22mm Auto Iris IR Lens
- ◆ 42 IR LED's
- ◆ 50' Plate Capture Range
- ◆ 44 MPH Plate Capture Speed
- ◆ Digital Wide Dynamic Range
- ◆ True Day/Night Mechanical IR Cut Filter
- ◆ UTC Controllable OSD & Joystick
- ◆ Sense-up / Slow Shutter Speed
- ◆ 12VDC/24VAC Dual Voltage Power
- ◆ 3D Digital Noise Reduction
- ◆ 1/2.9" Sony CMOS Sensor
- ◆ 3-Axis Cable Management Mount
- ◆ IP66 Weatherproof

INCLUDED ACCESSORIES:

User Manual, Mounting Hardware Packet, L-Style Wrench, Mounting Template.

CAMERA OVERVIEW:



Front View & Mounting Configuration



SPECIFICATION	HDLPCAM
Image Sensor	1/2.9" Sony CMOS Sensor
Total Pixels	1984 x 1225
Active Pixels	1920 x 1080
Resolution	1920 x 1080 (1080p)
Scanning System	Progressive Scan
OSD (On Screen Display)	Dual OSD Access: Cable Mounted Joystick Controlled / UTC Controlled (coaxial control)
Digital WDR (Wide Dynamic Range)	Auto / Off / On (0 ~8 Adjustable)
DNR (Digital Noise Reduction)	2D & 3D (Off / Low / Middle / High)
Video Output	BNC Video Connector
Lens Type - True Day Night	Motorized 9 ~ 22mm Varifocal Auto Iris IR Lens
Sense-up	Off / x2 ~ x30
Shutter Speed	Auto, FLK, 1/30 ~ 1/50,000, x2 ~ x30
IR Cut Filter	Built in Mechanical
Minimum Illumination	0.0 Lux IR LED On
IR LED Count / Range	42 IR LED's / 50' Range / 850nm
Plate Capture Viewing Angle	14° ~ 32° Vertical / 8° ~ 35° Horizontal
Plate Capture Speed	44 MPH
Plate Capture Range	Up to 50'
S/N Ratio	More than 52dB
Automatic Gain Control	0 ~15 Adjustable
Sync System	Internal
Gamma Characteristics	y = 0.45 typ.
White Balance	ATW / AWC->Set / Indoor / Outdoor / Manual
Back Light Compensation	Off / BLC / HSBLC
HBLC (High Back Light Compensation)	On / Off 4-Zone, Level & Mode Adjustable
Day/Night	EXT / Auto / Color / B/W
Mirror	Mirror / V-Flip / Rotate / Off
Languages	English, French, Spanish, German, Italian (see OSD Menu for more)
Brightness	0 ~ 100 Adjustable
Motion Detection	On/Off (4 Zone Selectable)
Privacy Mask	On/Off (4 Zone Selectable)
Power Input	12VDC/24VAC +/- 10% Dual Voltage Power
Power Requirement	400mA / 900mA IR LED ON
Overall Camera Dimensions	9.1" x 3.3" x 4.3" (231mm x 84mm x 110mm)
Housing / Color	Aluminum - White
Weight	1.6 Lb.
Operating Temperature	-22°F ~ 122°F
Weatherproof Rating	IP66

4-in-1, 1080p Outdoor Bullet Camera

DWDR, True D/N, UTC, 2.5mm IR Lens w/ 150° FOV

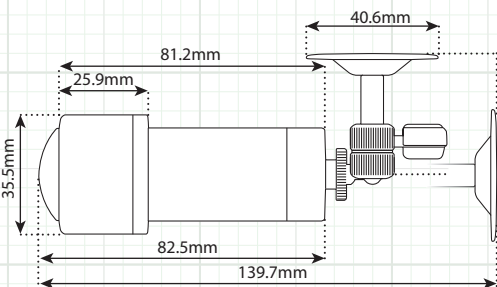
FEATURES:

- ◆ 1/2.9" Sony CMOS Sensor
- ◆ Multi Format (TVI, CVI, AHD, 960H)
- ◆ Full HD 1080p Resolution
- ◆ 2.5mm/150° FOV Ultra Wide Angle Lens
- ◆ Digital Wide Dynamic Range
- ◆ Cable & UTC OSD Control
- ◆ Sense-up / Slow Shutter Speed
- ◆ 3D Digital Noise Reduction
- ◆ 12 Volt DC power / IP66 Weatherproof

INCLUDED ACCESSORIES:

User Manual, Mounting Screws, Camera Bracket

CAMERA OVERVIEW:



Side View / Bottom View & Mounting Configuration



SPECIFICATION	HDBWIDE
Image Sensor	1/2.9" Sony CMOS Sensor
Total Pixels	1984 x 1225
Active Pixels	1920 x 1080
Resolution	1920 x 1080 (1080p)
Scanning System	Progressive Scan
Dual OSD Control Access (On Screen Display)	Cable Mounted Joystick Controlled / UTC (coaxial) Controlled
Digital WDR (Wide Dynamic Range)	Auto / Off / On - 0 ~ 8 Adjustable
DNR (Digital Noise Reduction)	2D & 3D, Low, Middle, High, Of
Video Output	TVI, CVI, AHD & 960H Selectable via OSD Joystick
Lens Type - True Day Night	2.5mm Ultra-Wide Angle Fixed Lens (150° FOV)
Sense-up	Off / Auto (x2 ~ x30 Selectable)
Shutter Speed	Auto, FLK, 1/30 ~ 1/50,000, x2 ~ x30
Minimum Illumination	Color 1.0 Lux, B/W 0.5 Lux
S/N Ratio	More than 50dB
Automatic Gain Control	0 ~15 Adjustable
Sync System	Internal
Gamma Characteristics	y = 0.45 typ
White Balance	AWB / ATW / AWC->Set / Indoor / Outdoor / Manual
Back Light Compensation	Off / BLC / HSBLC
HBLC (High Back Light Compensation)	On / Of
Day/Night	EXT / Auto / Color / B/W
Mirror	Mirror / V-Flip / Rotate / Of
Languages	English, French, Spanish, German, Italian (see OSD Menu for more)
Brightness	0 ~100 Adjustable
Motion Detection	On/Off (4 Zone Selectable)
Privacy Mask	On/Off (4 Zone Selectable)
Power Input	12VDC Only
Power Requirement	130mA
Overall Camera Dimensions	3.2"(W) x 1.4"(H) (80mm x 37mm)
Housing / Color	Aluminum / Black
Weight	.35 Lb.
Operating Temperature	-14°F ~ 122°F
Weatherproof Rating	IP66

4-in-1, 1080p Outdoor 60' IR Eyeball Camera
DWDR, True D/N, UTC, 2.5mm IR Lens w/ 150° FOV

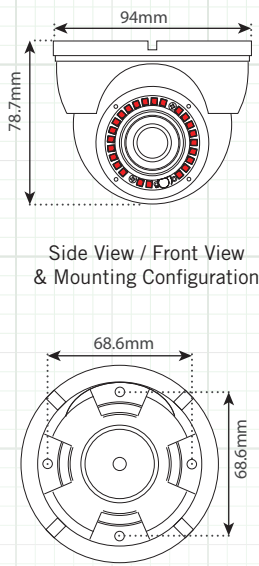
FEATURES:

- ◆ 1/2.9" Sony CMOS Sensor
- ◆ Multi Format (TVI, CVI, AHD, 960H)
- ◆ Full HD 1080p Resolution
- ◆ 2.5mm/150° FOV Ultra Wide Angle Lens
- ◆ 24 IR LED's / 60' IR Range
- ◆ True Day/Night Mechanical IR Cut Filter
- ◆ Digital Wide Dynamic Range
- ◆ Cable & UTC OSD Control
- ◆ 3-Axis Wall or Ceiling Mountable
- ◆ Sense-up / Slow Shutter Speed
- ◆ 3D Digital Noise Reduction
- ◆ 12 Volt DC power / IP66 Weatherproof

INCLUDED ACCESSORIES:

User Manual, Mounting Screws

CAMERA OVERVIEW:



In-Line Cable Mounted OSD Control



SPECIFICATION	HDDWIDE
Image Sensor	1/2.9" Sony CMOS Sensor
Total Pixels	1984 x 1225
Active Pixels	1920 x 1080
Resolution	1920 x 1080 (1080p)
Scanning System	Progressive Scan
Dual OSD Control Access (On Screen Display)	Cable Mounted Joystick Controlled / UTC (coaxial) Controlled
Digital WDR (Wide Dynamic Range)	Auto / Off / On - 0 ~ 8 Adjustable
DNR (Digital Noise Reduction)	2D & 3D, Low, Middle, High, Of
Video Output	TVI, CVI, AHD & 960H Selectable via OSD Joystick
Lens Type - True Day Night	2.5mm Ultra-Wide Angle Fixed Lens (150° FOV)
Sense-up	Off / Auto (x2 ~ x30 Selectable)
Shutter Speed	Auto, FLK, 1/30 ~ 1/50,000, x2 ~ x30
IR Cut Filter	Built in Mechanical
Minimum Illumination	Color 1.0 Lux, B/W 0.5 Lux, IR LED ON 0.0 Lux
IR LED Count / Range	24 IR LED's / 60' Range / 850nm
S/N Ratio	More than 50dB
Automatic Gain Control	0 ~15 Adjustable
Sync System	Internal
Gamma Characteristics	y = 0.45 typ
White Balance	AWB / ATW / AWC->Set / Indoor / Outdoor / Manual
Back Light Compensation	Off / BLC / HSBLC
HBLC (High Back Light Compensation)	On / Of
Day/Night	EXT / Auto / Color / B/W
Mirror	Mirror / V-Flip / Rotate / Of
Languages	English, French, Spanish, German, Italian (see OSD Menu for more)
Brightness	0 ~100 Adjustable
Motion Detection	On/Off (4 Zone Selectable)
Privacy Mask	On/Off (4 Zone Selectable)
Power Input	12VDC Only
Power Requirement	130mA / 350mA IR LED ON
Overall Camera Dimensions	3.76"(W) x 3.15"(H) (70mm x 80mm)
Housing / Color	Aluminum / White
Weight	.89 Lb.
Operating Temperature	-14°F ~ 122°F
Weatherproof Rating	IP66

4-in-1, Full HD 1080p Outdoor IR Eyeball Cameras
Semi Autofocus 2.8 ~ 12mm Lens, 90' IR Range

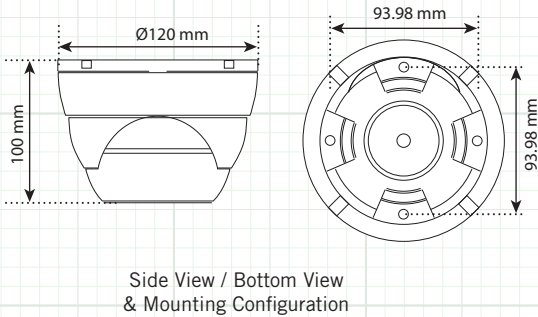
FEATURES:

- ◆ Multi Format (TVI, CVI, AHD, 960H)
- ◆ Semi-Autofocus 2.8 ~ 12mm Lens
- ◆ Full HD 1080p Resolution
- ◆ 24 IR LED's / 90' IR Range
- ◆ True Day/Night Mechanical IR Cut Filter
- ◆ Digital Wide Dynamic Range
- ◆ Sense-up / Slow Shutter Speed
- ◆ UTC & Joystick Controllable OSD
- ◆ 12 Volt DC Power
- ◆ 3D Digital Noise Reduction
- ◆ 1/2.9" Sony CMOS Sensor
- ◆ IP66 Weatherproof

INCLUDED ACCESSORIES:

User Manual, Mounting Screws.

CAMERA OVERVIEW:



In-Line Cable Mounted OSD Control



SPECIFICATION	HDMEIR90	HDMEIR90W
Image Sensor	1/2.9" CMOS Sensor	
Total Pixels	1984 x 1225	
Active Pixels	1920 x 1080	
Resolution	1920 x 1080 (1080p)	
Scanning System	Progressive Scan	
OSD (On Screen Display)	Dual OSD Access: Cable OSD Controlled / UTC Controlled (coaxial control)	
Digital WDR (Wide Dynamic Range)	TDN Semi Auto-Focus 2.8 ~ 12mm Lens / 28° ~ 90°	
DNR (Digital Noise Reduction)	Off / Auto (x2 ~ x30 Selectable)	
Video Output	Auto, FLK, 1/30 ~ 1/50,000, x2 ~ x30	
Lens Type - True Day Night	Built in Mechanical	
Sense-up	Color 0.1 Lux, B/W 0.05 Lux, IR LED ON 0.0 Lux	
Shutter Speed	24 IR LED's / 90' Range / 850nm	
IR Cut Filter	More than 52dB	
Minimum Illumination	0 ~15 Adjustable	
IR LED Count / Range	Internal	
S/N Ratio	y = 0.45 typ	
Automatic Gain Control	AWB / ATW / AWC->Set / Indoor / Outdoor / Manual	
Sync System	Off / BLC / HSBLC	
Gamma Characteristics	On / Off	
White Balance	EXT / Auto / Color / B/W	
Back Light Compensation	Mirror / V-Flip / Rotate / Off	
HBLC (High Back Light Compensation)	English, French, Spanish, German, Italian	
Day/Night	(see OSD Menu for more)	
Mirror	0 ~100 Adjustable	
Languages	On/Off (4 Zone Selectable)	
Brightness	On/Off (4 Zone Selectable)	
Motion Detection	12VDC Only	
Privacy Mask	150mA /430 mA IR LED ON	
Power Input	φ4.72" x 3.93" (120mm x 100mm)	
Power Requirement	180mA / 550mA IR LED ON	
Overall Camera Dimensions	4.7" x 3.4" (120mm x 88mm)	
Housing / Color	Gray	White
Weight	1.7lb	
Operating Temperature	-14°F ~ 122°F	
Weatherproof Rating	IP66	

Note: Specification subject to change without notice

4-in-1, 1080p Outdoor 60' IR Eyeball Cameras
DWDR, True D/N, UTC, 3.6mm IR Lens

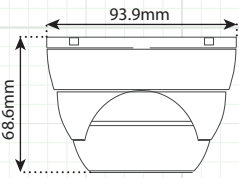
FEATURES:

- ◆ Multi Format (TVI, CVI, AHD, 960H)
- ◆ Full HD 1080p Resolution
- ◆ True Day/Night Mechanical IR Cut Filter
- ◆ Digital Wide Dynamic Range
- ◆ 3-Axis Wall or Ceiling Mountable
- ◆ Sense-up / Slow Shutter Speed
- ◆ UTC & Joystick Controllable OSD
- ◆ 12 Volt DC Power
- ◆ 3D Digital Noise Reduction
- ◆ 12 IR LED's / 60' IR Range
- ◆ 3.6mm Fixed Focal Lens
- ◆ 1/3" Sony CMOS Sensor
- ◆ IP66 Weatherproof

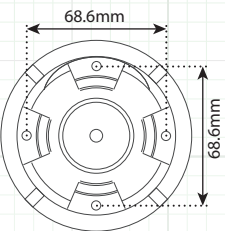
INCLUDED ACCESSORIES:

User Manual, Mounting Screws.

CAMERA OVERVIEW:



Camera Dimensions



Side View / Bottom View & Mounting Configuration



In-Line Cable Mounted OSD Control

SPECIFICATION	HDDWMIR	HDDWMIRW
Image Sensor	1/3" Sony CMOS Sensor	
Total Pixels	1984 x 1225	
Active Pixels	1920 x 1080	
Resolution	1920 x 1080 (1080p)	
Scanning System	Progressive Scan	
OSD (On Screen Display)	Dual OSD Access: Cable Mounted Joystick Controlled / UTC Controlled (coaxial control)	
Digital WDR (Wide Dynamic Range)	Auto / Off / On - 0 ~ 8 Adjustable	
DNR (Digital Noise Reduction)	2D & 3D, Low, Middle, High, Off	
Video Output	Dual Pigtail HD-TVI Main Output (yellow) / 960H Secondary Output (black)	
Lens Type - True Day Night	3.6mm Fixed Focal Lens	
Sense-up	Off / x2 ~ x30	
Shutter Speed	Auto, FLK, 1/30 ~ 1/50,000, x2 ~ x30	
IR Cut Filter	Built in Mechanical	
Minimum Illumination	0.0 Lux IR LED On	
IR LED Count / Range	12 IR LED's / 60' Range / 850nm	
S/N Ratio	More than 50dB	
Automatic Gain Control	0 ~100 Adjustable	
Sync System	Internal	
Gamma Characteristics	γ = 0.45 typ.	
White Balance	ATW / AWC->Set / Indoor / Outdoor / Manual	
Back Light Compensation	Off / BLC / HSBLC	
HBLC (High Back Light Compensation)	On / Off	
Day/Night	EXT / Auto / Color / B/W	
Mirror	Mirror / V-Flip / Rotate / Off	
Languages	English, French, Spanish, German, Italian (see OSD Menu for more)	
Brightness	0 ~100 Adjustable	
Motion Detection	On/Off (4 Zone Selectable)	
Privacy Mask	On/Off (4 Zone Selectable)	
Power Input	12VDC Only	
Power Requirement	120mA / 450mA IR LED ON	
Overall Camera Dimensions	3.7" x 2.6" (95mm x 65mm)	
Housing / Color	Aluminum - Gray	Aluminum - White
Weight	.75 Lb.	
Operating Temperature	-14°F ~ 122°F	
Weatherproof Rating	IP66	

Note: Specification subject to change without notice

4-in-1, 1080p Outdoor 90' IR Eyeball Cameras
DWDR, True D/N, UTC, 2.8~12mm IR Lens

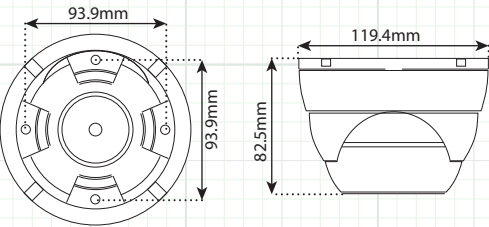
FEATURES:

- ◆ Multi Format (TVI, CVI, AHD, 960H)
- ◆ Full HD 1080p Resolution
- ◆ True Day/Night Mechanical IR Cut Filter
- ◆ Digital Wide Dynamic Range
- ◆ 3-Axis Wall or Ceiling Mountable
- ◆ Sense-up / Slow Shutter Speed
- ◆ UTC & Joystick Controllable OSD
- ◆ 12 Volt DC Power
- ◆ 3D Digital Noise Reduction
- ◆ 18 IR LED's / 90' IR Range
- ◆ 2.8 ~ 12mm Varifocal Lens
- ◆ 1/3" Sony CMOS Sensor
- ◆ IP66 Weatherproof

INCLUDED ACCESSORIES:

User Manual, Mounting Screws.

CAMERA OVERVIEW:



Side View / Bottom View & Mounting Configuration

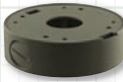


In-Line Cable Mounted OSD Control

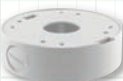
SPECIFICATION	HDDWMVFIR	HDDWMVFIRW
Image Sensor	1/3" Sony CMOS Sensor	
Total Pixels	1984 x 1225	
Active Pixels	1920 x 1080	
Resolution	1920 x 1080 (1080p)	
Scanning System	Progressive Scan	
OSD (On Screen Display)	Dual OSD Access: Cable Mounted Joystick Controlled / UTC Controlled (coaxial control)	
Digital WDR (Wide Dynamic Range)	Auto / Off / On - 0 ~ 8 Adjustable	
DNR (Digital Noise Reduction)	2D & 3D, Low, Middle, High, Off	
Video Output	Dual Pigtail HD-TVI Main Output (yellow) / 960H Secondary Output (black)	
Lens Type - True Day Night	2.8 12mm Varifocal Lens	
Sense-up	Off / x2 ~ x30	
Shutter Speed	Auto, FLK, 1/30 ~ 1/50,000, x2 ~ x30	
IR Cut Filter	Built in Mechanical	
Minimum Illumination	0.0 Lux IR LED On	
IR LED Count / Range	18 IR LED's / 90' Range / 850nm	
S/N Ratio	More than 50dB	
Automatic Gain Control	0 ~100 Adjustable	
Sync System	Internal	
Gamma Characteristics	γ = 0.45 typ.	
White Balance	ATW / AWC->Set / Indoor / Outdoor / Manual	
Back Light Compensation	Off / BLC / HSBLC	
HBLC (High Back Light Compensation)	On / Off	
Day/Night	EXT / Auto / Color / B/W	
Mirror	Mirror / V-Flip / Rotate / Off	
Languages	English, French, Spanish, German, Italian (see OSD Menu for more)	
Brightness	0 ~100 Adjustable	
Motion Detection	On/Off (4 Zone Selectable)	
Privacy Mask	On/Off (4 Zone Selectable)	
Power Input	12VDC Only	
Power Requirement	180mA / 550mA IR LED ON	
Overall Camera Dimensions	4.7" x 3.4" (120mm x 88mm)	
Housing / Color	Aluminum - Gray	Aluminum - White
Weight	1.6 Lb.	
Operating Temperature	-14°F ~ 122°F	
Weatherproof Rating	IP66	

OPTIONAL MOUNTING ACCESSORIES:

DWMVFBB - Gray Back Box



DWMVFBBW - White Back Box



4-in-1 Full HD 1080p Mini Cameras
3.6mm Standard or 3.7mm Cone Pinhole Lens

FEATURES:

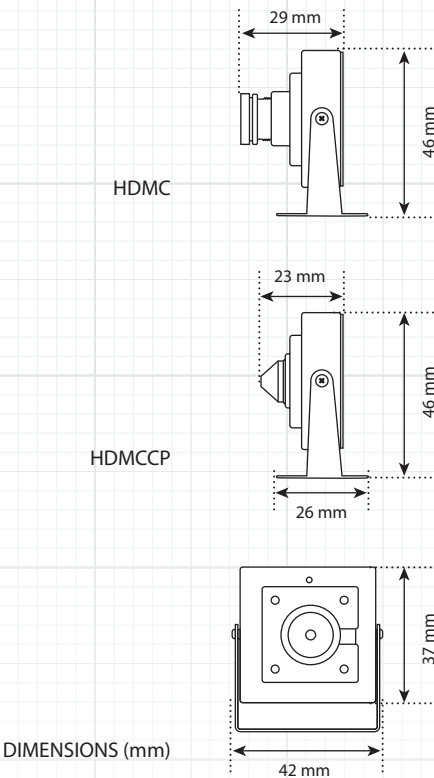
- ◆ Multi Format (TVI, CVI, AHD, 960H)
- ◆ Full HD 1080p Resolution
- ◆ 3.6mm Standard Lens (HDMC)
- ◆ 3.7mm Cone Pinhole Lens (HDMCCP)
- ◆ Sense-up / Slow Shutter Speed
- ◆ UTC & Joystick Controllable OSD
- ◆ 12 Volt DC Power
- ◆ 3D Digital Noise Reduction
- ◆ 1/2.9" Sony CMOS Sensor
- ◆ Indoor Only



INCLUDED ACCESSORIES:

User Manual, Mounting Screws,
Camera Bracket.

CAMERA OVERVIEW:



SPECIFICATION	HDMC	HDMCCP
Image Sensor	1/2.9" CMOS Sensor	
Total Pixels	1984 x 1225	
Active Pixels	1920 x 1080	
Resolution	1920 x 1080 (1080p)	
Scanning System	Progressive Scan	
OSD (On Screen Display)	Dual OSD Access: Cable Mounted Joystick Controlled UTC Controlled (coaxial control)	
Digital WDR (Wide Dynamic Range)	Auto / Off / On - 0 ~ 8 Adjustable	
DNR (Digital Noise Reduction)	2D & 3D, Low, Middle, High, Off	
Video Output	TVI, CVI, AHD & 960H Selectable via Cable OSD Joystick	
Lens - IR Type	3.6mm Standard Lens	3.7mm Cone Pinhole Lens
Sense-up	Off / Auto (x2 ~ x30 Selectable)	
Shutter Speed	Auto, FLK, 1/30 ~ 1/50,000, x2 ~ x30	
Minimum Illumination	Color 1.0 Lux, B/W 0.5 Lux	
S/N Ratio	More than 52dB	
Automatic Gain Control	0 ~15 Adjustable	
Sync System	Internal	
Gamma Characteristics	γ = 0.45 typ	
White Balance	AWB / ATW / AWC->Set / Indoor / Outdoor / Manual	
Back Light Compensation	Off / BLC / HSBLC	
HBLC (High Back Light Compensation)	On / Off	
Day/Night	EXT / Auto / Color / B/W	
Mirror	Mirror / V-Flip / Rotate / Off	
Languages	English, French, Spanish, German, Italian (see OSD Menu for more)	
Brightness	0 ~100 Adjustable	
Motion Detection	On/Off (4 Zone Selectable)	
Privacy Mask	On/Off (4 Zone Selectable)	
Power Input	12VDC Only	
Power Requirement	100mA	
Overall Camera Dimensions	37 x 37 x 30mm 1.5" x 1.5" x 1.2"	37 x 37 x 23mm 1.5" x 1.5" x 0.9"
Housing / Color	Aluminum / Black	
Weight	0.2lb	
Operating Temperature	14°F ~ 122°F	
Weatherproof Rating	Indoor Only	

4-in-1, 1080p Indoor PIR
DWDR, UTC, 3.7mm Cone Pinhole Lens

FEATURES:

- ◆ Multi Format (TVI, CVI, AHD, 960H)
- ◆ Full HD 1080p Resolution
- ◆ 3.6mm Standard Lens (HDMC)
- ◆ 3.7mm Cone Pinhole Lens (HDMCCP)
- ◆ Sense-up / Slow Shutter Speed
- ◆ UTC & Joystick Controllable OSD
- ◆ 12 Volt DC Power
- ◆ 3D Digital Noise Reduction
- ◆ 1/2.9" Sony CMOS Sensor
- ◆ Indoor Only

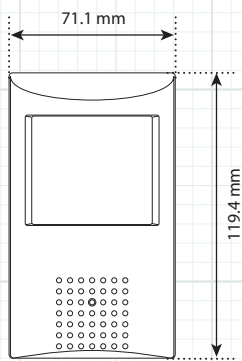


SPECIFICATION	HDPIR
Image Sensor	1/2.9" CMOS Sensor
Total Pixels	1984 x 1225
Active Pixels	1920 x 1080
Resolution	1920 x 1080 (1080p)
Scanning System	Progressive Scan
OSD (On Screen Display)	Dual OSD Access: Cable Mounted Joystick Controlled UTC Controlled (coaxial control)
Digital WDR (Wide Dynamic Range)	Auto / Off / On - 0 ~ 8 Adjustable
DNR (Digital Noise Reduction)	2D & 3D, Low, Middle, High, Off
Video Output	TVI, CVI, AHD & 960H Selectable via Cable OSD Joystick
Lens - IR Type	3.7mm Cone Pinhole Lens
Sense-up	Off / Auto (x2 ~ x30 Selectable)
Shutter Speed	Auto, FLK, 1/30 ~ 1/50,000, x2 ~ x30
Minimum Illumination	Color 1.0 Lux, B/W 0.5 Lux
S/N Ratio	More than 52dB
Automatic Gain Control	0 ~15 Adjustable
Sync System	Internal
Gamma Characteristics	γ = 0.45 typ
White Balance	AWB / ATW / AWC->Set / Indoor / Outdoor / Manual
Back Light Compensation	Off / BLC / HSBLC
HBLC (High Back Light Compensation)	On / Off
Day/Night	EXT / Auto / Color / B/W
Mirror	Mirror / V-Flip / Rotate / Off
Languages	English, French, Spanish, German, Italian (see OSD Menu for more)
Brightness	0 ~100 Adjustable
Motion Detection	On/Off (4 Zone Selectable)
Privacy Mask	On/Off (4 Zone Selectable)
Power Input	12VDC Only
Power Requirement	100mA
Overall Camera Dimensions	120 x 71x 76mm 4.7" x 2.8" x 3"
Housing / Color	Plastic / White
Weight	0.3lb
Operating Temperature	14°F ~ 122°F
Weatherproof Rating	Indoor Only

INCLUDED ACCESSORIES:

User Manual, Mounting Screws,
Camera Bracket.

CAMERA OVERVIEW:



Front View & Dimensions

4-in-1, 1080p Outdoor, 450' IR PTZ Camera
D-WDR, True D/N, UTC, 33X Optical Zoom

FEATURES:

- ◆ Multi-Format (TVI, CVI, AHD & 960H)
- ◆ 33X (4.6 ~ 152mm) Optical Zoom Level
- ◆ UTC & RS-485 Controllable
- ◆ Included 24VAC Power Supply
- ◆ Included Wall Mount
- ◆ 360° Endless Panning
- ◆ True D/N Mechanical IR Cut Filter
- ◆ 12 High Power IR LED's / 450' IR Range
- ◆ 4 Programmable Privacy Masks
- ◆ 128 Preset Positions
- ◆ 4 Tours - Up to 32 Presets Each
- ◆ -40°F Operating Temperature
- ◆ Built in Heater & Fan
- ◆ 1/2.8" 2MP CMOS Sensor
- ◆ IP66 Weatherproof

INCLUDED ACCESSORIES:

Quick Setup Guide, User Manual, 24VAC
Power Adapter, Wall Mount Bracket, Mounting
Hardware Kit & Tools.

OPTIONAL MOUNTING ACCESSORIES:

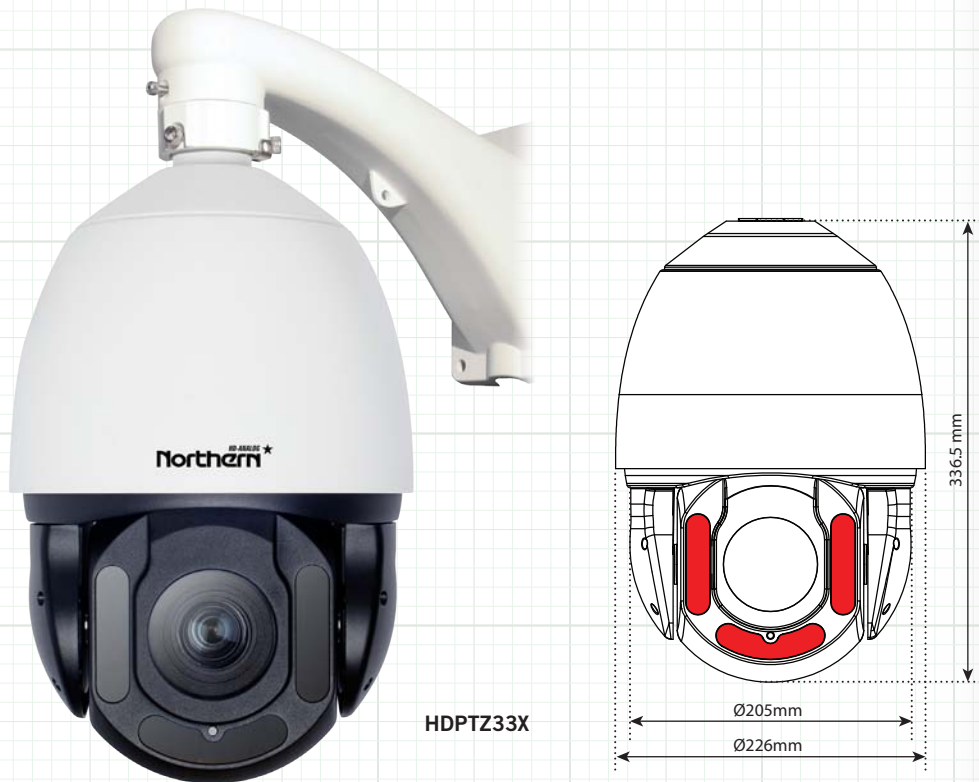
N2PTZPOLEMT - PTZ Pole Mount *

N2PTZCRNMT - PTZ Outside
Corner Mount *

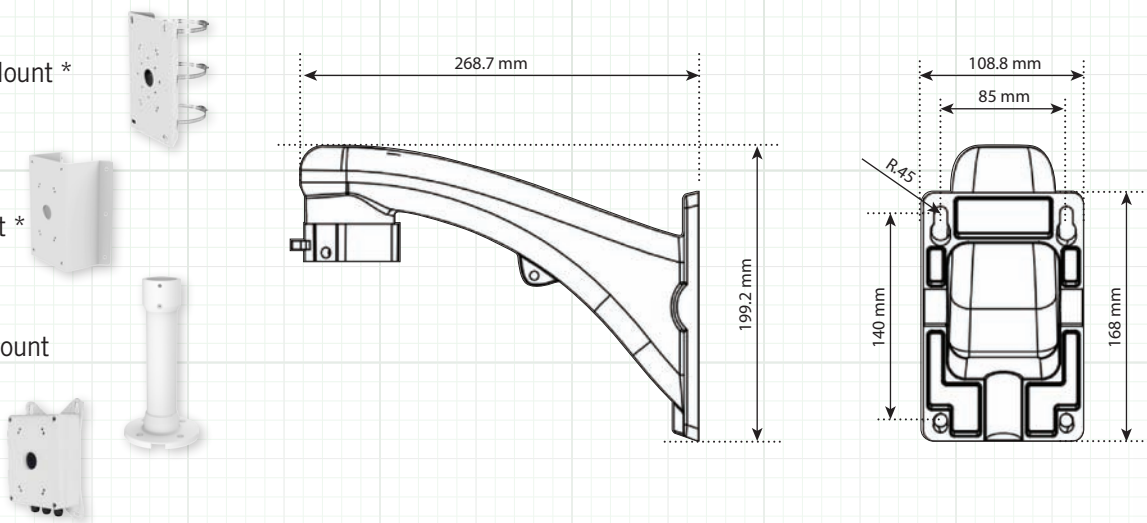
N2PTZPENDMT - Pendant Mount

N2PTZJB - Junction Box

* Pole & Corner Mount are compatible with
HDPTZ33X wall mount & N2PTZJB



WALL MOUNT DIMENSIONS:



	SPECIFICATION	HDPTZ32XIR
Camera	Image Sensor	1/2.8" Progressive Scan CMOS
	Image Resolution	2 Megapixel, 1920(H) x 1080(V)
	Frame Rate	50Hz: 25fps (PAL) / 60Hz: 30fps (NTSC)
	Min. Illumination	Color: 0.001Lux @ (F1.2, AGC ON) B/W: 0Lux @ (IR LED ON)
	White Balance	Auto / ATW / AWC-Set / Indoor / Outdoor / Manual / AWB
	AGC	Auto (1 ~ 15 Adjustable)
	S/N Ratio	More than 52dB
	2D & 3D DNR	Auto / Off / Low / Middle / High
	Backlight Compensation	OFF / ON, (HLC Off / On also Available)
	D-WDR (Wide Dynamic Range)	Digital WDR
	Shutter Time	AUTO, 1/25, 1/50, FLK, 1/200, 1/400, 1/1000, 1/2000, 1/5000, 1/10000, 1/50000, X2, X4, X6, X8, X10, X15, X20, X25, X30
	True Day & Night	Yes - Mechanical IR Cut Filter
	Digital Zoom	Yes: 1 ~ 20X
Input / Output	Video Output	Single BNC Output for TVI, CVI, AHD & 960H / Dipswitch for Switching Formats
	RS-485 Interface	Yes
	UTC Function	Yes - Up the Coax Control Available
IR	IR LED / Distance / nm	12 IR LEDs / Up to 450' / 850nm
	IR Intensity	Proportional to Zoom Level
Lens	Focus Mode	Auto / Semi-Automatic / Manual
	Focal Length	4.6 ~ 152mm / 33X Optical Zoom
	Zoom Speed	Approx.6.2s (Optical Wide-Tele)
	Angle of View	Horizontal: 55.2° ~ 3.2°
	Min. Working Distance	11.8"
Pan & Tilt	Aperture	F1.6~F4.8 (Auto IRIS)
	Pan Range	0° ~ 360° Endless
	Pan Speed	0.1° ~ 200° / Second
	Tilt Range	0° ~ +90°
	Tilt Speed	0.1 ~ 180° / Second
	Proportional Zoom	Auto Adjusts Speed for Zoom Level
	Number of Preset	128
	Tour	4 Tour, Speed & Park Time of Presets Can be Set
	Pattern	355° Programmable, 4 scan
	Power-off Memory	Tour, Preset, Pattern & Scan Can be Set
	Park Action	Tour, Preset, Pattern & Scan Can be Set
	Scheduled Task	Presets / Scan /Patterns / Patrol
General	Menu Language	ENG /CHN 1/ CHN 2/ GER / FRA / ITA / SPA / POL / RUS / POR / NED / TUR
	Power	AC 24V / 2.5A (With the Heater On)
	Operating Temperature	-40 °C ~ 60 °C (-40°F ~ 140 °F)
	Protection Level	IP66
	Certification	CE / FCC
	Dimensions	Φ26 x.336.5mm (Φ.9" x.13.25")
	Housing / Color	Metal / White
	Included	Wall Mount & 24VAC Power Supply
	Weight (approx.)	5Kg (11.02 lbs)

Note: Specification subject to change without notice

5MP, 4-in-1, True Wide Dynamic Box Camera
OSD, UTC, 3DNR - Lens Sold Separately

FEATURES:

- ◆ Up to 5MP Resolution (TVI/AHD)
- ◆ Multi Format (TVI, CVI, AHD, 960H)
- ◆ True 120dB Wide Dynamic Range
- ◆ True D/N Mechanical IR Cut Filter
- ◆ 12VDC/24VAC Dual Voltage Power
- ◆ Accepts C/CS Lenses (Lens Sold Separately)
- ◆ Joystick & UTC Controllable OSD
- ◆ Adjustable Shutter Speed
- ◆ 3D Digital Noise Reduction
- ◆ Top & Bottom Mounting Holes
- ◆ Adjustable Back Focus
- ◆ Indoor Only

INCLUDED ACCESSORIES:

User Manual, C-CS Mounting Adapter, Power Connector.

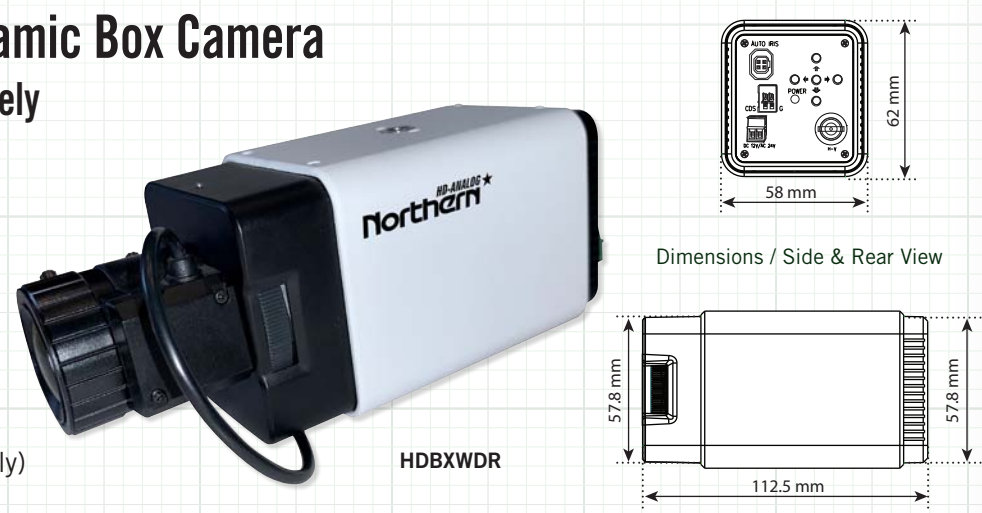
OPTIONAL ACCESSORIES:

Metal Dual Option Camera Mounts

MCM6W - White Indoor Camera Mount
with Wall/Ceiling & T-Bar Mount



VF2812IRMP3 - 2.8-12mm CS Mount,
DC Driven IR Lens with Full Glass Elements



SPECIFICATION	HDBXWDR
Image Sensor	1/2.8" Sony CMOS
Active Pixels	2688(H)×1944(V)
Resolution	Up to 5 Megapixel (5MP TVI/AHD), 4MP&2MP (TVI/AND/CVI), 960H
Resolution Default	TVI 1080p
Scanning System	Progressive Scan
OSD (On Screen Display)	Back Panel Joystick / UTC Controlled (coaxial control)
True WDR (Wide Dynamic Range)	120dB
3D Digital Noise Reduction	Yes (OFF / LOW / MIDDLE / HIGH)
Video Output	TVI, CVI, AHD & 960H (Selectable via OSD Menu)
Lens Type	Accepts C/CS Mount (CS Adapter Included)
Iris Type	DC Auto-Iris
Sense-up	Yes (x2 ~ x32 Adjustable) / OFF
Shutter Speed	Auto / FLK / Manual (1/30s ~ 1/30,000s)
IR Cut Filter	Yes - Built in Mechanical
Minimum Illumination	Color (0.03) / B&W (0.003 lux)
S/N Ratio	More than 52dB
Automatic Gain Control	Yes (0~10 Adjustable)
Sync System	Internal
White Balance	Yes AUTO / MANUAL (C-TEMP, R-GAIN / B-GAIN) Adjustable
Back Light Compensation	Yes ON/OFF (H/V Position & Size Adjustable)
HLC	Yes ON/OFF (Level & Color Adjustable)
Day/Night	Auto / COLOR / B&W / EXT / (D>N, N>D, Delay Adjustable)
Mirror	Yes
Digital Zoom	1x ~ 16X
Languages	ENG / CHN / CHN(S) / JPN / KOR
Brightness	Yes (1~20 Adjustable)
Motion Detection	Yes, 4-Zone Adjustable
Privacy Mask	Yes, 16-Zone Adjustable
Power Input	12 VDC±10%, 24 VAC±10%
Power Requirement	180mA
Overall Camera Dimensions	58×62×128mm (2.28"×2.44"×5.04")
Weight	Approx .85lb / 385g
Operating Temperature	-10°C ~ 60 °C (14°F ~ 140°F)
Weatherproof Rating	Indoor Only

Note: Specification subject to change without notice

Security Rated 5:4 Aspect LED Monitors

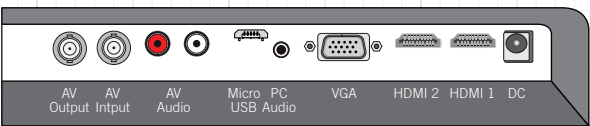


SPECIFICATION	LED17ST	LED19ST
Video System	NTSC/PAL (Auto Sensing)	
Max Resolution	1280 x 1024 (Native)	
Supported Resolutions	720x400; 640x480; 800x600; 1024x768; 1280x1024; 1920x1080 (Upscaled)	
Video Connections	HDMI, VGA, BNC 1 Input, BNC 2 Input/Output	
3D Comb Filter	Yes	
3D De-Interlace	Yes	
OSD (On Screen Display)	Yes	
Backlight	LED	
Active Display Area	17" Diagonal	19" Diagonal
Impedance	< 20W	<30W
Video Input Signals	HDMI, VGA, BNC In/Out	
Aspect Ratio	5:4	
Pixel Pitch	0.264 x 0.264 (mm)	
Color Depth	16.7 Million colors	
Brightness	220 cd/m2	
Contrast Ratio	1000:1	
Viewing Angle (H/V)	170°/160°	178°/178°
Response Time	5ms	
Auto Adjustment	Yes	
Certificates	UL/CUL (Power Supply) CE, FCC	
Languages	English, Chinese, German, French, Spanish, Italian	
Input Voltage	12VDC UL/CUL External Power Supply Included	
Power Consumption	<25W	
Audio Connections	PC Audio	
Dimensions w/stand (HxWxD)	14.6" x 15.2" x 7.2"	16.2" x 16.5" x 7.2"
Weight	9.8lb	10.5lb
Vesa Mounting	100 x 100	
Operating temperature	32° ~ 104°F	

FEATURES:

- ◆ 3D Comb Filter & 3D De-Interlace
- ◆ NTSC / PAL Auto Sensing
- ◆ Includes 6' HDMI & VGA Cables
- ◆ Up to 1280 x 1024 Resolution
- ◆ 3DNR (Digital Noise Reduction)
- ◆ HDMI & VGA Video Inputs
- ◆ Looping BNC Input
- ◆ Audio Inputs
- ◆ Super-Fast 5ms Response Time
- ◆ Full OSD Control of All Monitor Functions
- ◆ 5:4 Aspect Ratio
- ◆ Vesa Mounting

REAR PANEL CONNECTIONS:



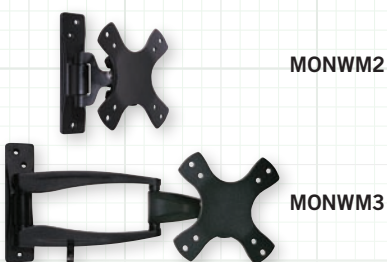
LED17ST / LED19ST

INCLUDED ACCESSORIES:

User Manual, 6' HDMI Cable, 6' VGA Cable, 12 Volt DC Power Supply / Power Cord

OPTIONAL MOUNTING ACCESSORIES:

- ◆ **MONWM2**
Fully Adjustable Wall Mount
- ◆ **MONWM3**
Dual Arm Fully Adjustable Wall Mount



Security Rated Widescreen LED Monitors

FEATURES:

- ◆ 18.5" to 32" Diagonal Screen Sizes
 - ◆ Widescreen Format
 - ◆ Up to 1080p Resolution
 - ◆ Super Fast Response Times
 - ◆ High Contrast Ratios
- ◆ NTSC/PAL Auto Sensing
 - ◆ HDMI & VGA Inputs
 - ◆ Looping BNC Inputs
 - ◆ PC Audio Inputs
 - ◆ LED Backlight
- ◆ 3D Comb Filters
 - ◆ 3D De-Interlace
 - ◆ Low Power Consumption
 - ◆ Full OSD Control of All Monitor Functions
 - ◆ Vesa Mounting

INCLUDED ACCESSORIES:

- Remote Control ("R" Models)
- HDMI & VGA Cables
- User Manual
- Power Supply
- Power Cord



SPECIFICATION	LED18	LED22R	LED24R
Video System	NTSC/PAL (Auto Sensing)	NTSC/PAL (Auto Sensing)	NTSC/PAL (Auto Sensing)
Max Resolution	1360 x 768	1920 x 1080	1920 x 1080
Supported Resolutions	720x400; 640x480; 800x600; 1024x768; 1280x1024; 1360x768; 1920x1080	720x400; 640x480; 800x600; 1024x768; 1280x1024; 1360x768; 1440x900; 1600x900; 1680x1050; 1920x1080	720x400; 640x480; 800x600; 1024x768; 1280x1024; 1360x768; 1440x900; 1600x900; 1680x1050; 1920x1080
3D Comb Filter	Yes	Yes	Yes
3D De-Interlace	Yes	Yes	Yes
OSD (On Screen Display)	Yes	Yes	Yes
Auto Adjustment	Yes	Yes	Yes
Backlight	LED (RGB)	LED (RGB)	LED (RGB)
Active Display Area	18.5" Diagonal	21.5" Diagonal	23.8" Diagonal
Impedence	75 OHM Self Terminating	75 OHM Self Terminating	75 OHM Self Terminating
Video Input Signals	HDMI, VGA, Composite BNC	HDMI, VGA, Composite BNC	HDMI, VGA, Composite BNC
Aspect Ratio	16:9	16:9	16:9
Pixel Pitch	0.28 (H) X 0.28 (V)	0.25 (H) X 0.25 (V)	0.275 (H) X 0.275 (V)
Color Depth	Over 16 Million Colors	Over 16 Million Colors	Over 16 Million Colors
Brightness	250 cd/m2	250 cd/m2	250 cd/m2
Contrast Ratio	2000:1	2000:1	1000:1
Viewing Angle (H/V)	170°/160°	170°/160°	178°/178°
Response Time	5ms	5ms	5ms
Certificates	CE, FCC, (UL-Power Supply)	UL/CUL, CE, FCC	UL/CUL, CE, FCC
Languages	English, Spanish, German, Chinese, French, Italian	English, Spanish, German, Chinese, French, Italian	English, Spanish, German, Chinese, French, Italian
Input Voltage	12 Volt DC External P/S	100 ~ 240VAC Internal P/S	100 ~ 240VAC Internal P/S
Power Supply	External	External	External
Power Consumption	< 20W	<30W	<30W
Video Connections	2x HDMI, VGA, BNC In/Out	2x HDMI, VGA, BNC, IN/OUT	2x HDMI, VGA, BNC, IN/OUT
Audio Connections	PC Audio(3.5mm), Stereo RCA	PC & Stereo RCA	PC & Stereo RCA
Dimensions w/stand (H x W x D)	13.42" x 17.8" x 7.3"	14.81" x 20.34" x 7.3"	16.02" x 22.7" x 7.3"
Weight	5.51lb	8.75lb	9.39lb
Remote Control	N/A	N/A / Yes	N/A / Yes
Vesa Mounting	Vesa 100 x 100	Vesa 100 x 100	Vesa 100 x 100
Operating Temperature	32° ~ 104°F	32° ~ 104°F	32° ~ 104°F

Security Rated Widescreen LED Monitors

OPTIONAL MOUNTING ACCESSORIES:

- ◆ **MONWM2** – Fully Adjustable Wall Mount
- ◆ **MONWM3** – Dual Arm Fully Adjustable Wall Mount



SPECIFICATION	LED27R	LED32R
Video System	NTSC/PAL (Auto Sensing)	NTSC/PAL (Auto Sensing)
Max Resolution	1920 x 1080	1920 x 1080
Supported Resolutions	720x400; 640x480; 800x600; 1024x768; 1280x1024; 1360x768; 1440x900; 1600x900; 1680x1050; 1920x1080	720x400; 640x480; 800x600; 1024x768; 1280x1024; 1360x768; 1440x900; 1600x900; 1680x1050; 1920x1080
3D Comb Filter	Yes	Yes
3D De-Interlace	Yes	Yes
OSD (On Screen Display)	Yes	Yes
Auto Adjustment	Yes	Yes
Backlight	LED (RGB)	LED (RGB)
Active Display Area	27" Diagonal	32" Diagonal
Impedence	75 OHM Self Terminating	75 OHM Self Terminating
Video Input Signals	HDMI, VGA, Composite BNC	HDMI, VGA, Composite BNC
Aspect Ratio	16:9	16:9
Pixel Pitch	0.3 (H) X 0.3 (V)	0.364 (H) X 0.364 (v)
Color Depth	Over 16 Million Colors	Over 16 Million Colors
Brightness	300 cd/m2	300 cd/m2
Contrast Ratio	3000:1	3000:1
Viewing Angle (H/V)	170°/160°	178°/178°
Response Time	5ms	6.5ms
Certificates	CE, FCC, (UL-Power Supply)	UL/CUL, CE, FCC
Languages	English, Spanish, German, Chinese, French, Italian	English, Spanish, German, Chinese, French, Italian
Input Voltage	12 Volt DC External P/S	100 ~ 240V AC Internal P/S
Power Supply	External	External
Power Consumption	<30W	<55W
Video Connections	2x HDMI, VGA, BNC, IN/OUT	2x HDMI, VGA, BNC, IN/OUT
Audio Connections	PC & Stereo RCA	PC & Stereo RCA
Dimensions w/stand (H x W x D)	17.7" x 25.6" x 8.3"	20.63" x 29.13" x 7.75"
Weight	11.59lb	17.6 lb
Remote Control	N/A / Yes	Yes
Vesa Mounting	Vesa 100 x 100	Vesa 200 x 100
Operating Temperature	32° ~ 104°F	32° ~ 104°F

Note: Specification subject to change without notice

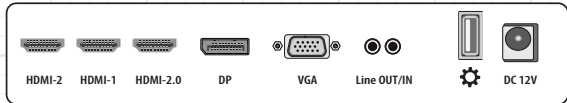
4K Security Rated 28" Widescreen LED Monitor
w/ Display Port, VGA & (3) HDMI Inputs

FEATURES:

- ◆ 4K / 3840 x 2160 Max Resolution
- ◆ Display Port, VGA & (3) HDMI Inputs
- ◆ 16:9 Aspect Ratio
- ◆ LED Backlight
- ◆ Super Fast 5ms Response Time
- ◆ Included IR Remote Control
- ◆ Included VGA & HDMI Cables
- ◆ PIP, PBP (2-4 Window)
- ◆ PC Audio Input/Output
- ◆ Full OSD Control
- ◆ Vesa Mounting (100x100)

REAR PANEL CONNECTIONS:

User Manual, C-CS Mounting Adapter, Power Connector.

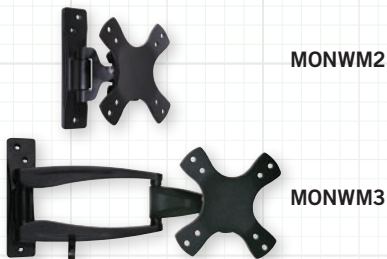


INCLUDED ACCESSORIES:

Base Plate, AC Power Adapter & Cord, HDMI & VGA Cables, IR Remote Control, User's Manual

OPTIONAL MOUNTING ACCESSORIES:

- ◆ **MONWM2**
Fully Adjustable Wall Mount
- ◆ **MONWM3**
Dual Arm Fully Adjustable Wall Mount



SPECIFICATION	LED4K28
Signal System	NTSC / PAL Auto Sensing
Display	7" IPS Touch Screen
Resolution	1280 x 800
Camera Capability	IP (H.265 / H.264), HD-Analog (TVI, CVI, AHD) & 960H Analog
Battery Run Time	Internal Lithium Ion Polymer Battery / 10 Hour Continuous
Battery Charge Time	6-7 Hours for Full Charge
Charger Type	12 Volt DC / 2 Amp (included)
Supported IP Camera	Over 70 supported ONVIF, ACTI, Dahua, HIKVISION, Samsung, Honeywell, etc. (see manual for full list)
Supported IP Camera Format	H.265 / H.264 / MPEG-4
IP Camera Resolution	Supports up to 4K
Network Test	IP Address Scan, Link Test, Ping Test, Port Finder
LCD Adjustment	Brightness, Contrast, Saturation
IPC Viewer	iVMS-4500, Easy Mobile, MEye, etc.
Network Port	10/100/1000M Lan Port - Auto Adapt, RJ45
Wi-Fi	Speed 150M, for Wireless ge / Browser / Access Point
POE Power Output	Built in 24W POE Power & Pass-through POE Power
USB Power Output	USB 5V, 2A Power Output Only - No Data
Auxiliary Power Output	12VDC - 2Amp for Camera Power
Video Input	1Ch BNC In/Out (TVI/CVI/AHD/960H) 1.0 Vp-p
HDMI Video Input/Output	Yes - supports up to 1080p
Audio Input/Output	3.5mm Stereo Jack
Communication	RS485 for PTZ Control
Baud Rate	150, 300, 600, 1200, 2400, 4800, 9600, 19200, 38400, 115200bps
UTC Control	Yes – Camera Dependent
UTP Cable Tester	Displays Connection Status, Cable Type & Wire Sequence
SD Card	8G Micro SD Card Included, Support up to 32GB Max
Recording	Supports Snapshot (JPG) & Record Video to SD Card
Media Player	Supports Up to 4K Video & MKV Media Files
Sleep Mode	Yes - Quick Press Power Button to Sleep/Wake
Dimensions (HxWxD)	154mm x 240mm x 46mm
Weight	1000g (Tester Only)

Note: Specification subject to change without notice

7" IP, TVI, CVI, AHD & 960H Service Monitor
w/ H.265, ONVIF, PTZ Control & Cable Tester



FEATURES:

- ◆ 7" IPS Touch Screen Display (1280x800 Res.)
- ◆ Compatible with IP, TVI, CVI, AHD & 960H Formats
- ◆ Touch Screen OSD & Button Controllable
- ◆ Supports ONVIF IP Camera Testing
- ◆ Up to 4K IP, 8MP TVI & CVI, 5MP AHD Resolution
- ◆ Built-in POE for Powering IP Cameras
- ◆ 12 Volt DC, 2-Amp Output for Powering Analog Cameras
- ◆ Built-in Wi-Fi for IP Camera Testing / Browser
- ◆ HDMI Input & Output
- ◆ NTSC / PAL Auto Sensing
- ◆ POE Voltage Measurement & Cable Status
- ◆ Supports 4K HD Video & MKV Media Files
- ◆ More than 30 Customized IP Camera Protocols
- ◆ PING Test, IP Address Scan & Port Finder
- ◆ UTC Compatible with HD-Analog Cameras
- ◆ BNC In/Output for TVI, CVI, AHD & 960H Camera Testing
- ◆ Analog Color Bar Generator for Image Testing
- ◆ Supports RS485 for PTZ Control
- ◆ Video Recording & Snapshot to SD Card
- ◆ Included 8GB Micro-SD, Supports up to 32GB
- ◆ Built-in 3.5mm Audio Input/Output
- ◆ 10-Hour Lithium Ion Polymer Battery
- ◆ LED Lamp, Calculator, Notepad & Other App Tools

INCLUDED ACCESSORIES:

Charger - 12 Volt DC / 2A
Network Cable Tester
Lithium Ion Polymer Battery
BNC to BNC Cable
RS-485 Cable with Alligator Clip
Audio Cable - 3.5mm to Alligator Clip
Safety Lanyard
Protective Case
User Manual
8GB Micro-SD Card

SPECIFICATION	IP7TM
Signal System	NTSC / PAL Auto Sensing
Display	7" IPS Touch Screen
Resolution	1280 x 800
Camera Capability	IP (H.265 / H.264), HD-Analog (TVI, CVI, AHD) & 960H Analog
Battery Run Time	Internal Lithium Ion Polymer Battery / 10 Hour Continuous
Battery Charge Time	6-7 Hours for Full Charge
Charger Type	12 Volt DC / 2 Amp (included)
Supported IP Camera	Over 70 supported ONVIF, ACTI, Dahua, HIKVISION, Samsung, Honeywell, etc. (see manual for full list)
Supported IP Camera Format	H.265 / H.264 / MPEG-4
IP Camera Resolution	Supports up to 4K
HD Analog Camera Resolution	TVI – 720p, 1080p, 3MP, 4MP, 5MP, 8MP CVI – 720p, 1080p, 4MP, 8MP AHD – 720p, 1080p, 3MP, 4MP, 5MP
Network Test	IP Address Scan, Link Test, Ping Test, Port Finder
LCD Adjustment	Brightness, Contrast, Saturation
IPC Viewer	iVMS-4500, Easy Mobile, MEye, etc.
Network Port	10/100/1000M Lan Port - Auto Adapt, RJ45
Port Flashing	Yes
Browser	History, Bookmarks, Saved pages
Wi-Fi	Speed 150M, for Wireless Camera Image / Browser / Access Point
POE Power Output	Built in 24W POE Power & Pass-through POE Power
USB Power Output	USB 5V, 2A Power Output Only - No Data
Auxiliary Power Output	12VDC - 2Amp for Camera Power
Video Input	1Ch BNC In/Out (TVI/CVI/AHD/960H) 1.0 Vp-p
HDMI Video Input/Output	Yes - supports up to 1080p
Audio Input/Output	3.5mm Stereo Jack
Communication	RS485 for PTZ Control
Baud Rate	150, 300, 600, 1200, 2400, 4800, 9600, 19200, 38400, 115200bps
Protocols	Pelco P & D, Samsung, Panasonic, Fastrax, SONY-EVI, LG-MULTIX, BOSCH OSRD, Hikvision, Kalatel, AD 168(M-B), etc
UTC Control	Yes – Camera Dependent
UTP Cable Tester	Displays Connection Status, Cable Type & Wire Sequence
SD Card	8G Micro SD Card Included, Support up to 32GB Max
Recording	Supports Snapshot (JPG) & Record Video to SD Card
Media Player	Supports Up to 4K Video & MKV Media Files
Sleep Mode	Yes - Quick Press Power Button to Sleep/Wake
Dimensions (HxWxD)	154mm x 240mm x 46mm
Weight	1000g (Tester Only)

VC3PAIRHD / VC4PAIRHD

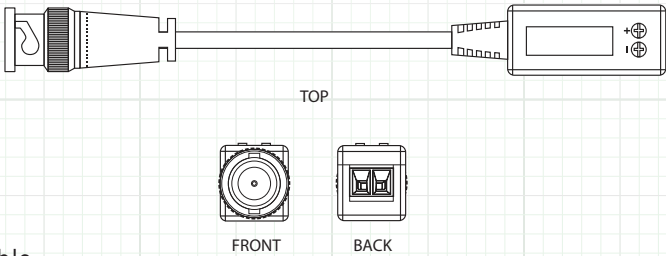


HD Balun for TVI, CVI, AHD & 960H Cameras

BNC Male with 4" Mini Coax to Screw Terminal

FEATURES:

- ◆ Transmission: 300M (720P & 960H), 250M (1080P)
- ◆ Compatible with TVI, CVI, AHD & 960H Formats
- ◆ 4" BNC Male Mini COAX to Screw Terminal for Easy Connection
- ◆ Compact & Mini Size, Eliminates the Need for Bulky Coaxial Cable
- ◆ Passive, No Power Required
- ◆ Built-in ESD, EFT & Transient Protection



SPECIFICATION	VC4PAIRHD
Connections	Screw Terminal to BNC Male w/4" Mini Coax
Video Signal	1Vp-p, 75 Ohms
Bandwidth	50Hz ~ 60MHz (-3dB)
Transmission Distance	300M (720P & 960H), 250M (1080P)
ESD Protection	30KV (Air), 15KV (Contact); IEC 61000-4-2 Compliant
Cable Type	For Use with CAT5e/CAT6 UTP (Unshielded Twisted Pair)
EFT Protection	40A (5/50ns); IEC 61000-4-4 Compliant
Lightning Protection	2A (8/20µs); IEC 61000-4-5 Compliant
Surge Protection Attack Time	< 1nS
Dimensions	7.2" x 0.6" x 0.5" / 113mm x 16mm x 13mm
Weight	8 Oz



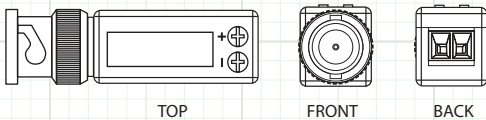
VC4PAIRHD

HD Balun for TVI, CVI, AHD & 960H Cameras

BNC Male to Screw Terminal

FEATURES:

- ◆ Transmission: 300M (720P & 960H), 250M (1080P)
- ◆ Compatible with TVI, CVI, AHD & 960H Formats
- ◆ BNC Male to Screw Terminal for Easy Connection
- ◆ Compact & Mini Size, Eliminates the Need for Bulky Coaxial Cable
- ◆ Passive, No Power Required
- ◆ Built-in ESD, EFT & Transient Protection



SPECIFICATION	VC3PAIRHD
Connections	Screw Terminal to BNC Male
Video Signal	1Vp-p, 75 Ohms
Bandwidth	50Hz ~ 60MHz (-3dB)
Transmission Distance	300M (720P & 960H), 250M (1080P)
ESD Protection	30KV (Air), 15KV (Contact); IEC 61000-4-2 Compliant
Cable Type	For Use with CAT5e/CAT6 UTP (Unshielded Twisted Pair)
EFT Protection	40A (5/50ns); IEC 61000-4-4 Compliant
Lightning Protection	2A (8/20µs); IEC 61000-4-5 Compliant
Surge Protection Attack Time	< 1nS
Dimensions	1.7" x 0.6" x 0.5" / 43mm x 16mm x 13mm
Weight	8 Oz



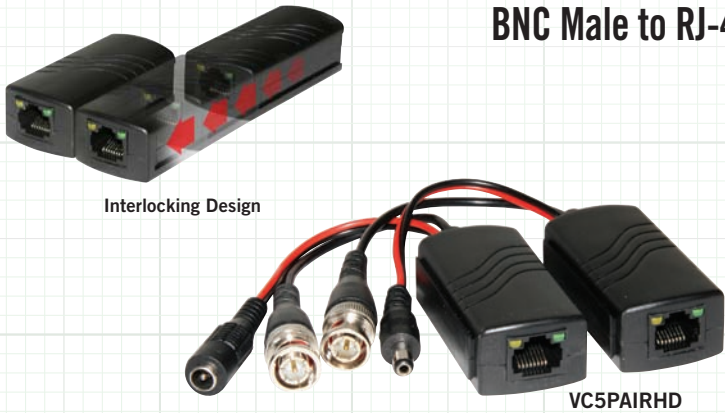
VC3PAIRHD



VC5PAIRHD / HDGLC

HD Video+Power Baluns for TVI, CVI, AHD & 960H Cameras

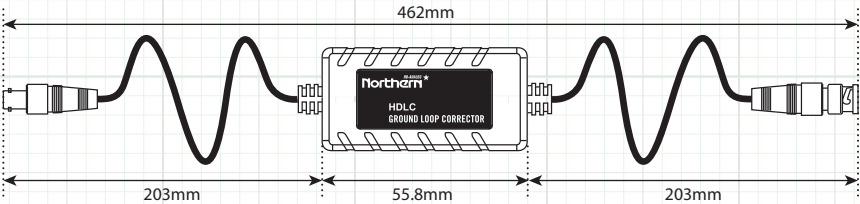
BNC Male to RJ-45 Connector, 12VDC Male to 12VDC Female Power



FEATURES:

- ◆ Transmission: 300M (720p & 960H), 250M (1080p)
- ◆ Compatible with TVI, CVI, AHD & 960H Formats
- ◆ 6" BNC Male to RJ-45 Connector
- ◆ DC Male & DC Female Power Connections
- ◆ Built-in ESD, EFT & Transient Voltage Protection
- ◆ Interlocking Design

Specification	VC5PAIRHD	Distance / Voltage Requirement			
Connections	Video: RJ-45 to BNC Male Power: 12VDC Male to 12VDC Female	Distance	Desired Voltage / Amperage		
Video Signal	1Vp-p, 75 Ohms		12VDC / 0.5A	12VDC / 1Amp	12VDC / 1.5A
Bandwidth	50Hz ~ 60MHz (-3dB)				
Transmission Distance	Video: 300M (720p & 960H) 250M (1080p)		Starting Voltage Required		
ESD Protection	30KV (Air), 15KV (Contact); IEC 61000-4-2 Compliant	50M	13.5V	15.5V	17.0V
Cable Type	For Use with CAT5e/CAT6 UTP Cable				
Power Type	Supports 12VDC & 24VAC Power	100M	15.5V	18.5V	22.0V
EFT Protection	40A (5/50ns); IEC 61000-4-4 Compliant				
Lightning Protection	2A (8/20μs); IEC 61000-4-5 Compliant	150M	17.0V	22.0V	27.0V
Surge Protection Attack Time	<1nS				
Dimensions	81mm x 20mm x 30mm (body) w/ 6" BNC & Power Pigtails	200M	18.5V	25.5V	32.0V
Weight	0.2lb	300M	22.0V	30.0V	42.0V



SPECIFICATION	HDGLC
Compatible Formats	TVI, CVI, AHD, 960H
Insertion Loss	0.5dB
Frequency Response	0-3dB at 10Mhz
Connections	BNC male to BNC Female
Isolation Voltage	600VDC (Min.)
Insulation resistance	100M ohm
Transient Voltage Suppressors	12V rms
Dimensions (W/H/D)	2.2" x 1.1" x 0.8" (Body Only) w/ 8" Cables
Weight	1.7 oz.

HDGLC

Video Ground Loop Corrector



HDGLC

FEATURES:

- ◆ BNC Male to BNC Female Connections
- ◆ 12V rms Transient Voltage Suppressor
- ◆ 600VDC Isolation Voltage

4-in-1 HD Analog Real Time Quad / Switcher with Looping

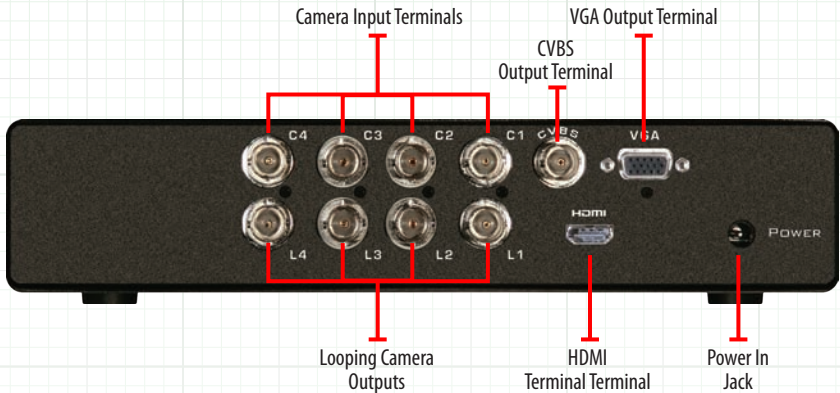


Front Panel / Controls

SPECIFICATION	HDQS4L
Video Format	TVI, CVI, AHD & 960H Compatible
Camera Inputs	BNC x 4, 1.0V p-p, 75 ohms
Camera Output	BNC x 4, 1.0V p-p, 75 ohms
Video Output	HDMI & VGA (1080p Max) / CVBS (640x480)
Simultaneous Output	Yes - Mirrored (HDMI, VGA, BNC)
Camera Adjustment	Independent Contrast, Brightness, Chroma & Tint Controls
Full Screen Viewing	Yes - 1 Button Easy Full Screen Viewing
Video Signal	NTSC/PAL Switchable
Certifications	FCC, ROHS
Power Supply	12 Volt DC, Included
Power Requirement	Max 5 Watts / 420mA
Weight	1.6lb
Dimensions	8.6" x 5.5" x 2" (W x D x H)
Weatherproof Rating	Indoor Only

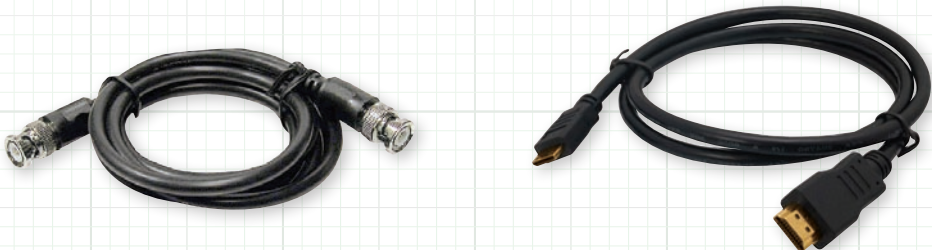
Note: Specification subject to change without notice

FEATURES
- Multi Format (TVI, CVI, AHD, 960H) - HDMI, VGA & BNC Video Outputs 1080p Max Resolution 30FPS Real Time Viewing - Looping BNC Video Inputs - OSD Control of All Major Functions - Time & Date Generator 8 Character Camera Title - Adjustable Dwell Time - Individual Camera Picture Adjustment - NTSC/PAL Switchable - LED Power Indicator - Included 12VDC Power Supply - Indoor Only
INCLUDED / ACCESSORIES
500mA Power Supply - User Manual.



Pre-Made Cables and Connectors

BNC & HDMI Cables, BNC & 12VDC Connectors



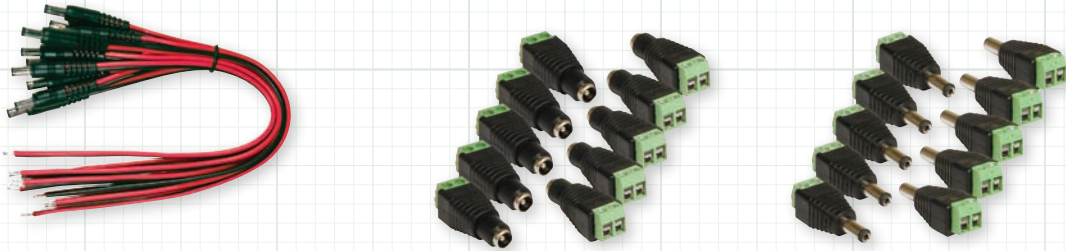
Model	CBL3BNC	CBL6BNC	HDMI3UL	HDMI6UL	HDMI15UL
Info	BNC Male to BNC Male Connectors		Video & Audio w/Gold Connectors		
Length	3'	6'	3'	6'	15'

Precision Engineered BNC Connectors & Cables



Model	BNCCRIMP10PK	BNCTWIST10PK	BNCSPICE5PK	BNCFTORCAM	BNCMTORCAF	BNCT
Info	2-Piece BNC Connector	Twist-On BNC Connector	Female to Female	BNC Female to RCA Male	BNC Male to RCA Female	BNC Male to 2x BNC Female
Cable Type	RG59U	RG59U	Any	Any	Any	Any
Packaging	10 Pack	10 Pack	5 Pack	Single	Single	Single

12 Volt DC Connectors

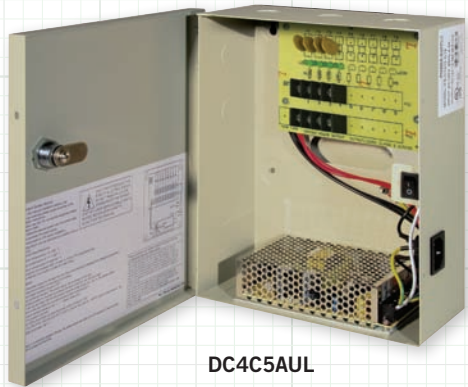


Model	12VDCCORD10PK	12VDCCON10PKF	12VDCCON10PKM
Info	DC Male with 18 Gauge 12" Bare Lead Connection	DC Female with Screw Terminal Connection	DC Male with Screw Terminal Connection
Packaging	Center Pin Positive	Center Pin Positive	Center Pin Positive
Polarity	10 Pack	10 Pack	10 Pack

DC4C5AUL / DC9C10AUL / DC18C10AUL

12VDC PTC Fused Multi-Channel Power Supplies

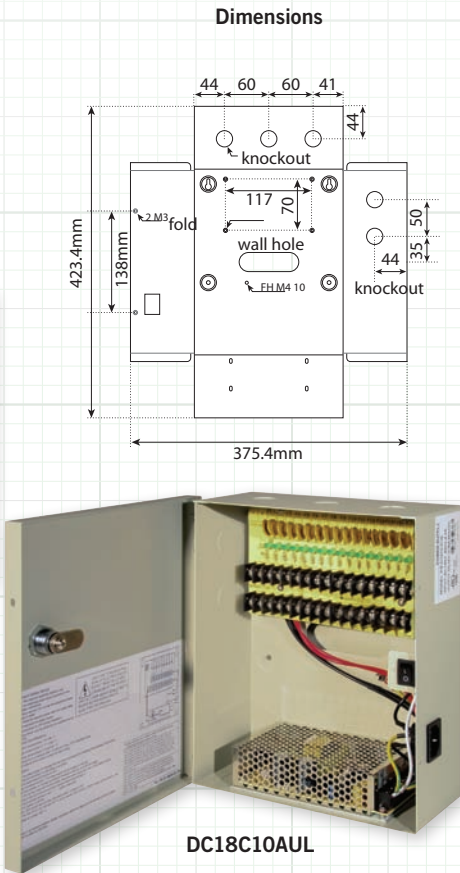
UL Listed, 4-9-18 Channel with PTC Fuse



DC4C5AUL



DC9C10AUL



DC18C10AUL

FEATURES:

- ◆ 5 Amp Total Output (4 Ch)
- ◆ 10 Amp Total Output (9/18 Ch)
- ◆ 1.25 Amp / Channel (4 Ch)
- ◆ 1.1 Amp / Channel (9 Ch)
- ◆ 560mA / Channel (18 Ch)
- ◆ PTC Resettable Fuse Protection
- ◆ LED Channel Indicator
- ◆ Key & Lock Assembly Included
- ◆ Easy Connect 3-Prong Power Cord
- ◆ UL/CUL Certifications

INCLUDED ACCESSORIES:

3-Prong Power Cord, 2. Keys, Mounting Template, Mounting Hardware, Knockout Grommets, Door Screws.



SPECIFICATION	DC4C5AUL	DC9C10AUL	DC18C10AUL
Input Voltage	4	9	18
Output Voltage	AC 120V, 60Hz, 2.5Amp		
Potentiometer	Yes - (Range of 10VDC ~ 14VDC)		
Total Output Current	5 Amp	10 Amp	10 Amp
Output Current Per Channel	1.25 Amp	1.1 Amp	560mA
Output Fuse Protection	PTC Resettable Fuses		
Maximum Fuse Rating	1.6 Amp		1.1 Amp
Channel LED Indicator	Yes		
Protections	Over Power, Over Current, Over Voltage, Short Circuit		
Internal On/Off Switch	Yes		
Power Cord	Easy Connect / 3-Prong		
Key / Lock Assembly	Included		
Housing Dimensions	10.1" x 8.3" x 3.6"		
Housing Material / Color	Steel / Beige		
Housing Knockouts - 1/2"	3 Top / 2 Left Side		
Certification	UL/CUL, FCC, CE, ROHS		
Operating Temp	14° ~ 104°F		
Weatherproof Rating	Indoor Only		

Note: Specification subject to change without notice

DC4C5AULBB

12VDC 4Ch/5Amp PTC Fused Power Supply

w/ Optional Battery Backup



DC4C5AULBB

Shown with Backup Battery Installed
Note: Batteries are Not Included

FEATURES:

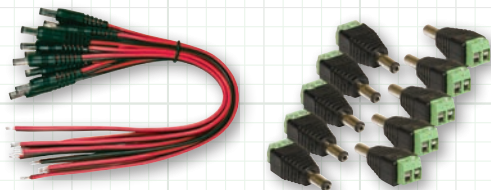
- ◆ 5 Amp Total Output
- ◆ 1.25 Amp / Channel
- ◆ Battery Type: 12VDC, 7Ah or 8Ah (not included)
- ◆ PTC Resettable Fuse Protection
- ◆ LED Channel Indicator
- ◆ Key & Lock Assembly Included
- ◆ Easy Connect 3-Prong Power Cord
- ◆ UL/CUL Certifications

INCLUDED ACCESSORIES:

3-Prong Power Cord, Keys, Mounting Template, Mounting Hardware, Knockout Grommets, Door Screws

SPECIFICATION	DC4C5AULBB
Input Voltage	AC 100~240V 50/60Hz
Output Voltage	12 Volt DC
Potentiometer	Yes - (Range of 10VDC ~14VDC)
Output Current Per Channel	1.25Amp / Channel
Output Fuse Protection	PTC Resettable Fuse
Maximum Fuse Rating	1.6 Amp
Channel LED Indicator	Yes
Protections	Over Power, Over Current, Over Voltage, Short Circuit
Power Cord	Easy Connect 3-Prong
Key/Lock Assembly	Included
Housing Dimensions (HxWxD)	8.6" x 7.1" x 3.1" (220x180x80mm)
Housing Material / Color	Steel / Beige
Housing Knockouts 1/2"	3 - Right Side
Certification	UL/CUL, FCC, CE, ROHS
Operating Temp	14°F ~ 104°F
Weatherproof Rating	Indoor Only
External LED Indicators	Yellow = Power, Green = DC12V, Red = Charge
Battery Backup Type	12 Volt DC / 7Ah or 8Ah
Battery Backup Size	101mm(H) x 151mm (W) x 65mm (D)

OPTIONAL ACCESSORIES:



12VDCCORD10PK

12VDCCON10PKM

12VDCCORD10PK - DC Male with Screw Terminal Connection

12VDCCON10PKM - DC Male with 18 Guage 12" Bare Lead Connection

7AH BATTERY BACKUP DURATION		
Channels	Draw	Duration
4	500mA	3.5hr

12 Volt DC Power Supplies

12VDC1AMP

1 Amp 12 Volt DC Power Supply

FEATURES:

- ◆ 1 Amp Output
- ◆ Class II Transformer
- ◆ UL/CUL Listed
- ◆ Level VI Efficiency



12VDC1AMP

12VDC2AMP

2 Amp 12 Volt DC Power Supply

FEATURES:

- ◆ 2 Amp Output
- ◆ Class 2 Transformer
- ◆ UL/CUL Listed
- ◆ Level VI Efficiency



12VDC2AMP

SPECIFICATION	12VDC1AMP	12VDC2AMP
Type	Class II, UL/CUL Listed	Class II, UL/CUL Listed
Input	AC 100-240V 50/60HZ 0.35A MAX	AC 100-240V 50/60HZ 0.35A MAX
Output	12 Volt DC 1 Amp (Regulated)	12 Volt DC 2 Amp (Regulated)
Misc.	2.1 x 5.5mm / Center Pin Positive	2.1 x 5.5mm / Center Pin Positive

PSMINI4C5AUL

4 Channel, 5 Amp 12 Volt DC Power Supply



PSMINI4C5AUL

Power Output



Power Input



FEATURES:

- ◆ UL / CUL Listed
- ◆ Built in PTC Fuse for Protection
- ◆ Adjustable Output Voltage up to 13.8V
- ◆ 100V-240V Wide Range Input Voltage
- ◆ LED Indicator Light
- ◆ Sliding Terminal Strip Cover
- ◆ Power Cord Included

SPECIFICATION	PSMINI4C5AUL
Number of Outputs	4
Input Voltage	AC 100V-240V
Adjustable Output Voltage	12 ~ 13.8 Volt DC
Output Current	5 Amp
Fuse Type	PTC 6 Amp
LED Indicator	Yes
Certificates	UL / CUL
Operating Temperature	-22°F ~ 113°F
Weatherproof Rating	Indoor Only
Dimensions (H x W x D)	6.5" x 2.12" x 1.37"

24 Volt AC Multi-Channel Power Supplies

4, 8 & 16 Channel, 24 Volt AC Power Supplies

w/ Glass Fuse, UL Listed

FEATURES:

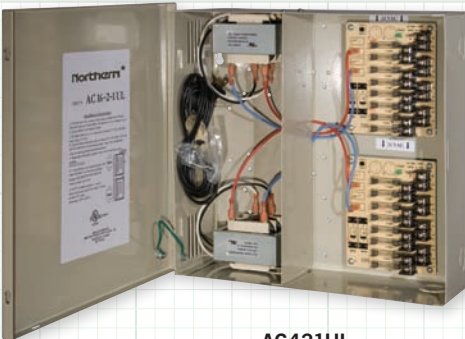
- ◆ Up to 2 Amp per Channel Output
- ◆ Replaceable Glass Fuses
- ◆ Heavy Duty Metal Cabinet
- ◆ Removable Front Door for Easy Access
- ◆ LED Indicator
- ◆ Key Lock Assembly Included
- ◆ Class II / UL Listed
- ◆ 1/2" - 3/4" Combo Knockouts

INCLUDED ACCESSORIES:

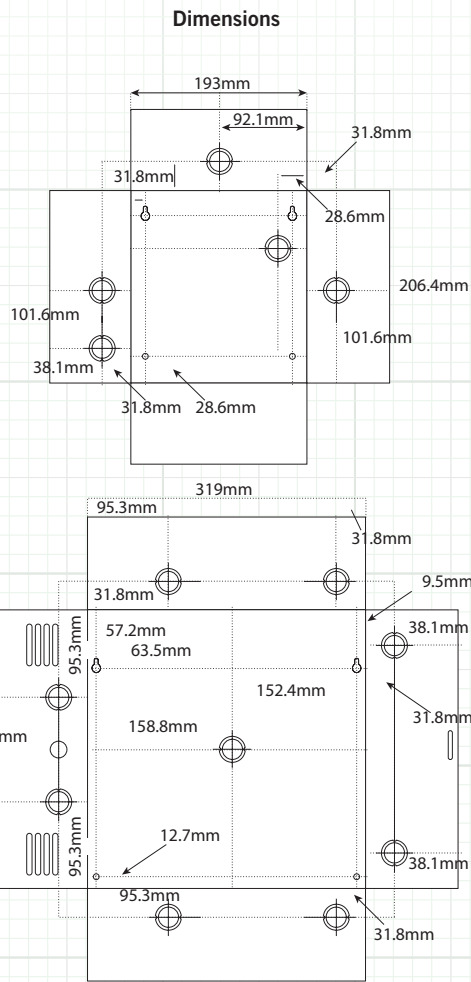
1. Power Cord
1. Key Lock Assembly
2. Keys



AC411UL
AC811UL



AC421UL
AC821UL
AC1621UL
AC1641UL



SPECIFICATION	AC411UL	AC421UL	AC811UL	AC821UL	AC1621UL	AC1641UL
Input Current	115 VAC 50/60Hz					
Output Voltage	24 VAC					
Total Output Current	4 Amp	8 Amp	4 Amp	8 Amp	8 Amp	16 Amp
Output Current per Channel	1 Amp	2 Amp	500mA	1 Amp	500mA	1 Amp
Number of Outputs	4	4	8	8	16	16
Output Protection	Fused					
Output Fuse Rating	3.5 Amp Per Channel					
AC/DC LED Power Indicator	Yes					
UL Listing	Yes					
1/2" - 3/4" Combo Knockouts	Yes					
Key Lock (Included)	Yes with 2 Keys					
Cabinet Material / Color	Metal / Beige					
Cabinet Dimensions	7.6" x 8.3" x 3.5"	12.4" x 12.25" x 4.1"	7.6" x 8.3" x 3.5"	12.4" x 12.25" x 4.1"	12.4" x 12.25" x 4.1"	12.4" x 12.25" x 4.1"

Note: Specification subject to change without notice

24VAC Power Supplies & Accessories

AC2450VA

24 Volt AC 50VA Plug-in Transformer



- FEATURES:**
- ◆ Class II, UL Listed
 - ◆ 120 Volt AC Input
 - ◆ Screw Terminal Connection
 - ◆ 50VA (2 Amp) Output
 - ◆ Wall Outlet Safety Screw

AC2450VA

SPECIFICATION	AC2450VA
Type	Class II UL Listed
Input	AC 120V
Output	24 Volt AC 2 Amp
Connection	Screw Terminal

24VACT012VDC1A

24Volt AC to 12Volt DC Converter

- FEATURES:**
- ◆ 24 VAC Input Power
 - ◆ 12 Volt DC Output
 - ◆ Dimensions 3" x 1.2" x 0.9" (w/o DC connector)

WX10024UL

Outdoor Rated 24 Volt AC, 100VA Power Supply



WX10024UL

SPECIFICATION	WX10024UL
Input Voltage	120V AC
Output Voltage	24VAC (100VA/4 Amp)
Certifications	Class II, UL Listed
Outdoor Rating	NEMA 3 Enclosure
Housing	Metal (Black)
Input / Output Connections	Bare Lead



24VACT012VDC1A

SPECIFICATION	24VACT012VDC1A
Input Voltage	20~30 Volt AC or 36 Volt DC
Output Voltage/Current	12 Volt DC / 1 Amp Max
Input Connection	Bare Lead
Output Connection	Single - Bare Lead w/4" DC Connector
Protections	Isolated Filter, Overload & Short Circuit
Certifications	CE, RoHS
Operating Temperature	-14°F ~ +114°F
Weight	.09Lb
Dimensions	3" x 1.2" x 0.9" (w/o DC Connector)
Weatherproof Rating	Indoor Only

HDMIEXTC6

4K UHD/60Hz HDMI 2.0 Extender over Single CAT6/6A/7 with IR Passback - Plug & Play - Indoor Only



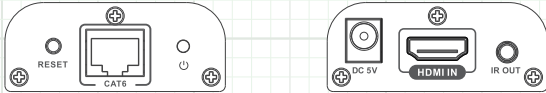
TX - Transmitter

RX - Receiver

- FEATURES:**
- ◆ Transmits over Single CAT6/6A/7
 - ◆ Up to 4K UHD @ 60Hz Resolution
 - ◆ Supports HDMI 2.0 / HDCP2.2
 - ◆ Supports HDR-10
 - ◆ Supports IR Passback
 - ◆ Up to 60 Meters @ 4K/30Hz
 - ◆ Up to 30 Meters @ 4K/60Hz
 - ◆ 18 Gbps Transmission
 - ◆ Includes Power Supplies
 - ◆ For Indoor Use Only

SPECIFICATION	TX - Transmitter	RX - Receiver
HDMI Version	Supports HDMI 2.0, HDMI 1.4	
HDCP Version	Supports HDCP 2.2, HMCP 1.4	
HDR Version	Supports HDR-10	
Network Cable Required	CAT6 / CAT6A / CAT7	
Network Cable Standard	CAT6 / CAT6A / CAT7, Follow IEEE 568B Standard	
Input/Output Cable Length	≤5M (AWG26 HDMI Cable, Supports HDMI 2.0)	
Transmission Distance	60 Meters - 4K or 2K @ 30Hz / 30 Meters - 4K or 2K @ 60Hz	
Maximum Transmission Rate	18Gbps	
Video Support	480i@60Hz, 480p@60Hz, 576i@50Hz, 576p@50Hz, 720p@50/60Hz, 1080i@50/60Hz, 1080p@50/60Hz, 4Kx2K@24/25/30/60Hz	
Audio Support	LPCM / DTS-HD / Dolby-Ac3	
Input TMDs Signal	0.5~1.2Vp-p	
Input DDC Signal	5Vp-p	
RS232 Support	No	
POE Support	No	
Supported Configurations	Point to Point Connection	
IR Passback	Yes	
Inputs	HDMI / 5 Volt DC	RJ45 / 5 Volt DC / 3.5mm Jack (IR)
Outputs	RJ45 / 3.5mm Jack (IR)	HDMI
HDMI Source Control	Controllable via IR Passback from RX to TX	
HDMI Connector	Type A 19 Pins, Female	
Housing	Aluminum - Black	
Dimensions (L x W x H)	77.5mm x 56.2mm x 22.7mm (3.05" x 2.2" x 0.9") - For Both TX & RX	
Weight	TX & RX each 80g (0.18lb) - Total 160g (0.36lb)	
Power Input	5 Volt DC	
Power Requirement	2.5W	3W
Operating Temperature	0° ~ 50°C (32° ~ 122°F)	
Weatherproof Rating	Indoor Only	
Certifications	FCC, CE, RoHS	

TRANSMITTER OVERVIEW:



RECEIVER OVERVIEW:



INCLUDED ACCESSORIES:

5 Volt DC / 1AMP Power Supply x 2, IR Transmitter Cable x 1, R Receiver Cable x 1, Users Manual

HDMISPL14

4K UHD/60Hz HDMI 2.0 Splitter - 4 Channel
Plug & Play - Indoor Only



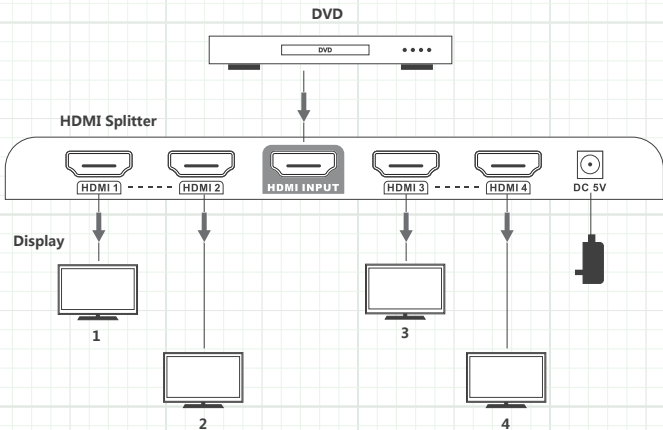
HDMISPL14

FEATURES:

- ◆ Send 1 HDMI Source to 4 HDMI Displays
- ◆ Up to 4K UHD @ 60Hz Resolution
- ◆ Supports HDMI 2.0 / HDCP 2.2
- ◆ Supports HDR-10
- ◆ Supports EDID
- ◆ Plug & Play Design
- ◆ Includes Power Supply
- ◆ For Indoor Use Only

INCLUDED ACCESSORIES:

5 Volt DC / 2AMP Power Supply, Users Manual



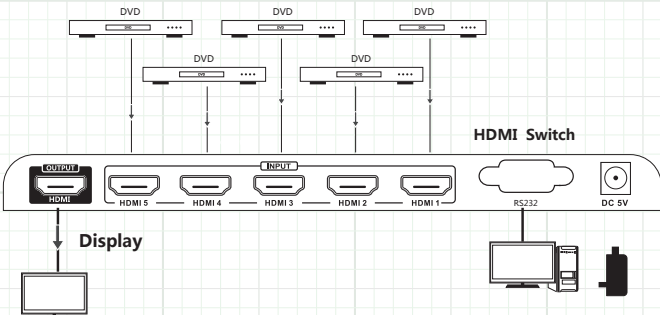
CONNECTION ILLUSTRATION:

1. Connect the HDMI video source output port to the splitter input port by HDMI cable.
2. Connect the splitter output port to HDMI display by HDMI cable.
3. Set the TV input to right HDMI channel.
4. Power on the splitter(Power indicator will light on).

SPECIFICATION	HDMISPL14
Input Ports	HDMI x 1 (Type A, 19 pin, Female)
Output Ports	HDMI x 4 (Type A, 19 pin, Female)
Input / Output Cable Length	≤5M (AWG26 HDMI Cable, Supports HDMI 2.0)
Video Support	480i@60Hz, 480p@60Hz, 576i@50Hz, 576p@50Hz, 720p@50/60Hz, 1080i@50/60Hz, 1080p@50/60Hz, 4Kx2K@24/25/30/60Hz
Audio Support	Supports Standard Audio, DSD (Direct Stream Digital) & HD (HBR) Audio
HDMI Version	Supports HDMI 2.0, HDMI 1.4
HDCP Version	Supports HDCP 2.2, HDCP 1.4
HDR Version	Supports HDR-10
Video Format	Supports 12 bit Full HD Video, 3D Video & 4K&2K 30/60Hz Ultra HD Video
Maximum Transmission Rate	18Gbps
TMDS Signal	0.5 1.5Vp-p (TMDS)
DDC Signal	5Vp-p (TTL)
EDID DIP Switch	Yes
Housing	Aluminum - Black
Dimensions (L xW x H)	158 x 80 x 17mm (6.2" x 3.2" x 0.7")
Weight	200g (0.45lb)
Power Input	5 Volt DC
Power Requirement	<8W
Operating Temperature	0 ~ 60°C (32° ~ 140°F)
Weatherproof Rating	Indoor Only
Certifications	FCC, CE, RoHS

HDMISW51

4K UHD/60Hz HDMI 2.0 Switcher - 5 Channel
Plug & Play - IR Remote - RS232 - Indoor Only



CONNECTION ILLUSTRATION:

1. Connect source devices to HDMI inputs on the unit
2. Connect display device to HDMI output of the unit
3. Connect the power adapter, unit power on and works
4. Choose your source signal via remote controller or RS232

SPECIFICATION	HDMISW51
Input Ports	HDMI x 5
Output Ports	HDMI x 1
Input / Output Cable Length	≤5M (AWG26 HDMI Cable, Supports HDMI 2.0) / ≤10M (AWG23 HDMI Cable, Supports HDMI 2.0)
Video Support	480i@60Hz, 480p@60Hz, 576i@50Hz, 576p@50Hz, 720p@50/60Hz, 1080i@50/60Hz, 1080p@50/60Hz, 4Kx2K@24/25/30/60Hz
Audio Support	"Supports Standard Audio, DSD (Direct Stream Digital) & HD (HBR) Audio"
HDMI Version	Supports HDMI 2.0, HDMI 1.4
HDCP Version	Supports HDCP 2.2, HDCP 1.4
HDR Version	Supports HDR-10
Video Format	Supports 12 bit Full HD Video, 3D Video & 4K&2K 30/60Hz Ultra HD Video
Control	Supports IR Remote & RS232 Control
Maximum Transmission Rate	18Gbps
TMDS Signal	0.7~1.2Vp-p
DDC Signal	5Vp-p
Housing	Aluminum - Black
Dimensions (L xW x H)	218 x 79 x 20.5mm (8.6" x 3.1" x 0.8")
Weight	420g (0.9lb)
Power Input	5 Volt DC
Power Requirement	<5W
Operating Temperature	0 ~ 60°C (32° ~ 140°F)
Weatherproof Rating	Indoor Only
Certifications	FCC, CE, RoHS

Note: Specification subject to change without notice



HDMISW51

FEATURES:

- ◆ Switch Easily Between 5 HDMI Sources
- ◆ Up to 4K UHD @ 60Hz Resolution
- ◆ Supports HDMI 2.0 / HDCP 2.2
- ◆ Supports HDR-10
- ◆ Supports IR & RS232 Control
- ◆ IR Remote Included
- ◆ Plug & Play Design
- ◆ 18 Gbps Transmission
- ◆ Includes Power Supply
- ◆ For Indoor Use Only

INCLUDED ACCESSORIES:

5 Volt DC / 1AMP Power Supply, Users Manual, IR Remote (CR2025 Battery Included)

BD124, BD125, BD127 & BD128

12 Volt DC, Non-Spillable Sealed Lead Acid Rechargeable Batteries

for Fire, Alarm & CCTV Applications

BD124

12 Volt DC 4Ah



SPECIFICATION		BD124	
Rated Capacity	77°F (25°C)	Total Height	4.25 inches (108mm)
20 hour rate (250mA)	4.5Ah	Height	4.02 inches (102mm)
10 hour rate (450mA)	4.25Ah	Length	3.54inches (90mm)
5 hour rate (840mA)	4.1Ah	Width	2.76 inches (70mm)

BD125

12 Volt DC 5Ah



SPECIFICATION		BD125	
Rated Capacity	77°F (25°C)	Height	4.21in (106.9 mm)
20-hr. (0.25A)	5.0 Ah	Length	3.54in (89.9 mm)
10-hr. (0.47A)	4.65 Ah	Width	2.76in (70.1 mm)
5-hr. (0.85A)	4.25 Ah	Weight	3.09 lbs (1.4 kgs)

BD127

12 Volt DC 7Ah



SPECIFICATION		BD127	
Rated Capacity	77°F (25°C)	Height	4.02 inches (102mm)
20 hour rate (375mA)	7.5Ah	Length	5.95 inches (151mm)
10 hour rate (690mA)	6.9Ah	Width	2.56 inches (65mm)
5 hour rate (1280mA)	6.4Ah	Weight	Approx. 5.35 lbs (2.43Kg)

BD128

12 Volt DC 8Ah

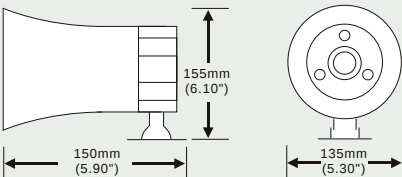


SPECIFICATION		BD128	
Rated Capacity	77°F (25°C)	Height	4.21in (106.9 mm)
20-hr. (0.40A)	8.0 Ah	Length	3.54in (89.9 mm)
10-hr. (0.74A)	7.44 Ah	Width	2.76in (70.1 mm)
5-hr. (1.36A)	6.80 Ah	Weight	4.96 lbs (2.25 kgs)

S20WSU, D30WU, D20WU & D15WU

Single & Dual Tone Sirens

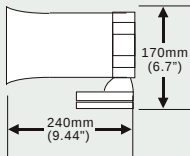
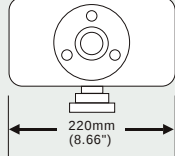
30, 20 & 15 Watt

SPECIFICATION		S20WSU	
Power	20 Watt		
Tone	Yelp		
Voltage	6~13.5 Volts DC		
Decibels	115 dB (max)		
Current	750~950 mA		
Dimensions [D x L x H]	Φ5.3 x 5.9 x 6.1 (in) Φ135 x 150 x 155 (mm)		
Weight	Weight 1.05lbs / 480g		
Weatherproof Rating	IP 55		

S20WSU

20 Watt, Single Tone

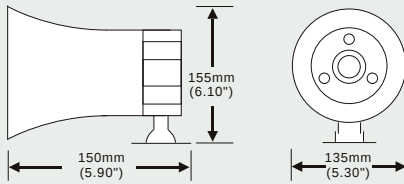


SPECIFICATION		D30WU	
Power	30 Watt		
Tone	Yelp & Steady		
Voltage	6~13.5 Volts DC		
Decibels	120 dB ±5		
Current	800~1200 mA		
Dimensions [W x D x H]	8.66 x 9.44 x 6.7 (in) 220 x 240 x 170 (mm)		
Weight	Weight 2.8lbs / 560g		
Weatherproof Rating	IP 55		

D30WU

30 Watt, Dual Tone

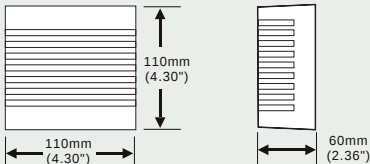


SPECIFICATION		D20WU	
Power	20 Watt		
Tone	Yelp & Steady		
Voltage	6~13.5 Volts DC		
Decibels	115 dB (max)		
Current	750~950 mA		
Dimensions [D x L x H]	Φ5.3 x 5.9 x 6.1 (in) Φ135 x 150 x 155 (mm)		
Weight	Weight 1.05lbs / 480g		
Weatherproof Rating	IP 55		

D20WU

20 Watt, Dual Tone



SPECIFICATION		D15W	
Power	15 Watt		
Tone	Yelp & Steady		
Voltage	6~13.5 Volts DC		
Decibels	108 dB ±5		
Current	500±100 mA		
Dimensions [W x D x H]	4.3 x 2.36 x 4.3 (in) 110 x 60 x 110 (mm)		
Weight	Weight 1.05lbs / 440g		
Weatherproof Rating	Indoor Only		

D15WU

15 Watt, Dual Tone



2021 PRODUCT CATALOG

Northern

The Security Professional's Choice For Video Surveillance Products



Introducing Northern Structured Cabling

Northern's Structured Cabling and Connectivity Products are UL Laboratory Tested and verified to meet the highest Industry Standards and Performance Requirements. Our products are installer friendly and will decrease installation time while boosting your productivity. Northern connectivity products are also an incredible value, adding profit to your bottom line. Contact your sales representative to learn more about the new Structured Cabling and Connectivity Products by Northern.



Structured Network Cabling

- CAT5E & CAT6E
- Multiple Colors
- 1000ft. Pull Boxes
- Made in the USA

Single Gang Faceplates

- Blank, 1, 2, 3, 4, 6 Port
- White and Ivory
- Keystone Jack Ready
- Includes Screws



Patch Cords

- CAT5E & CAT6
- Booted Ends
- Multiple Colors and Lengths



Modular Keystone Jacks

- CAT5E & CAT6
- 90° Standard & 180° High Density
- Multiple Colors



Patch Panels

- 12, 24 and 48 Port
- Cat5E or CAT6 Preloaded
- Modular Unloaded - Keystone Jack Ready
- 12 Port - 89D Mount Option



Surface Mount Boxes

- 1, 2 & 4 Port
- White and Ivory
- Keystone Jack Ready
- Includes Adhesive Backing and Screws



Duplex Fiber Optic Jumpers

- Singlemode and Multimode
- Multiple Connector Types
- 2MM OFNR Jacket
- Multiple Lengths



Structured Cabling System

Category Cable

CATEGORY 6A, CATEGORY 6E, CATEGORY 6, CATEGORY 5E



- FEATURES:**
- ◆ ETL Certified To ANSI/TIA 568 D.2
 - ◆ NEC Article 800 Compliant CMR or CMP
 - ◆ Solid Bare Copper Conductors
 - ◆ Made In America
- See Individual Spec Sheets For More Information

Jacks

90°, 180°, Shielded 90°

- FEATURES:**
- ◆ ANSI/TIA-568-D.2 Component Requirements For Connecting Hardware
 - ◆ ISO 11801
 - ◆ 110 IDC
 - ◆ PoE
- See Individual Spec Sheets For More Information

Rapid Punch Termination Tools

Compatible with Northern Performance Jacks

- FEATURES:**
- ◆ Handle Lock
 - ◆ Speeds Termination
 - ◆ Cuts All 8 Wires to Length with 1 Squeeze

***CABLE AND JACK COLORS; SUBJECT TO AVAILABILITY AND OR SPECIAL ORDER**

BLUE (BL), BLACK(BK), GREEN(GN), GRAY(GY), IVORY(IV), ORANGE(OR), PURPLE(PR), RED(RD), YELLOW(YL), WHITE(WH)

CATEGORY 6A 500 MHZ 23GA/4PR(1)*		
CMR	CMP	—
N6ARBL1RL	N6APBL1RL	—
N6ARWH1RL	N6APWH1RL	—

CATEGORY 6E 550 MHZ 23GA/4PR(1) BC*		
CMR	CMP	DIRECT BURIAL
N6ERBL1BX	N6EPBL1BX	N/A SEE CATEGORY 6
N6ERWH1BX	N6EPWH1BX	—

CATEGORY 6 250 MHZ 23GA/4PR(1) BC*		
CMR	CMP	DIRECT BURIAL
N/A SEE 6E	N6PBL1BX	N6DB1RL
—	N6WH1BX	—

CATEGORY 5E 350 MHZ 24GA/4PR(1) BC *		
CMR	CMP	DIRECT BURIAL
N5ERBL1BX	N5EPBL1BX	N5EDB1RL
NRERWH1BX	N5EPWH1BX	—



NJK6CC



NJK6CCHD

CATEGORY JACKS		
90° *	180°	SHIELDED 90°
NJK6ABL	NJK6ABLHD	NJK6ASH
NJK6BL	NJK6BLHD	NJK6SH
NJK5EBL	NJK5EBLHD	NJK5ESH



NJKCRIMP90

TERMINATION TOOLS		
90° *	180°	SHIELDED 90°
NJKCRIMP90	NJKCRIMPHD	NJKCRMP90

Faceplates, SMB's, Patch Panels & Patch Cords

Faceplates & Surface Mount Boxes

- FEATURES:**
- ◆ UL 94 V.0 Plastics
 - ◆ Accept Northern Keystone Jacks

AVAILABLE COLORS:

WHITE(WH), IVORY(IV),
LIGHT ALMOND (LA)*

*Special Order



NFP1WH



NFP1WHID



NSMB2WH

NON ID SINGLE GANG FACE PLATES	ID FACE PLATES SINGLE GANG	SUFACEMONT BOXES
NFP1WH	NFP1WHID	NSMB1WH
NFP2WH	NFP2WHID	NSMB2WH
NFP3WH	NFP3WHID	NSMB4WH
NFP4WH	NFP4WHID	—
NFP6WH	NFP6WHID	—

Patch Panels

16 Gauge Steel Construction

- FEATURES:**
- ◆ Modular Patch Panel Accepts Northern Jacks
 - ◆ 24P =1U / 48P = 2U RMS
 - ◆ 12P Uses 89B Bracket



NPP612PM



NPPMOD24P



NPP648P

CATEGORY 6	CATEGORY 5E	MODULAR
NPP612PM	NPP5E12PM	NPPMOD12PM*
NPP624P	NPP5E24P	NPPMOD24P*
NPP648P	NPP5E48P	NPPMOD48P*

* Use Modular Panels For 6A Requirements



NPC5E1WH

Patch Cords

ANSI/TIA 568 D.2 Component Tested

- FEATURES:**
- ◆ Snagless Boots
 - ◆ Male Ends Comply ANSI/TIA 1096-A
 - ◆ 24 Gauge Stranded BC Conductors
 - ◆ ANSI/TIA 568 D.2 Component Tested
 - ◆ ISO/IEC 11801
 - ◆ PoE
 - ◆ UL 3rd Party Listed & Verified
- See Individual Spec Sheets For More Information

PATCH CORDS		
CATEGORY 6A	CATEGORY 6	CATEGORY 5E
NPC6A1BL	NPC61BL	NPC5E1BLBB
NPC6A2BL	NPC62BL	NPC5E2BLBB
NPC6A3BL	NPC63BL	NPC5E3BLBB
NPC6A5BL	NPC65BL	NPC5E5BLBB
NPC6A7BL	NPC67BL	NPC5E7BLBB
NPC6A10BL	NPC610BL	NPC5E10BLBB
NPC6A15BL	NPC615BL	NPC5E15BLBB
NPC6A20BL	NPC620BL	NPC5E20BLBB
NPC6A25BL	NPC625BL	NPC5E25BLBB

PATCH CORD COLOR KEY:

BLUE (BL), BLACK(BK), GREEN(GN), GRAY(GY), IVORY(IV), ORANGE(OR), PURPLE(PR), RED(RD), YELLOW(YL), WHITE(WH)

OTHER LENGHTS AND COLORS AVAILABLE, CALL SALES WITH INQUIRY

Relay Rack & Hinged Wall Bracket Solutions

19" Wide Hinged Wall Mount Brackets

FEATURES:

- ◆ EIA 310 1224 Screw Paternrn
- ◆ Hinged To Get To Back Side Of Patch Panels
- ◆ Can Be Used To Mount Active Equipment



19" WIDE X 6" DEEP		19" WIDE X 15" DEEP
NHWB1U6BK	HINGED WALLMOUNT BRACKET 1U	NHWB2U15BK
NHWB2U6BK	HINGED WALLMOUNT BRACKET 2U	NHWB4U15BK
NHWB3U6BK	HINGED WALLMOUNT BRACKET 3U	NHWB6BKU15BK
NHWB4U6BK	HINGED WALLMOUNT BRACKET 4U	NHWB8U15
NHWB6U6BK	HINGED WALLMOUNT BRACKET 6U	NHBEK15BK

Swing Gate Racks

FEATURES:

- ◆ EIA 310 1224 Screw Pattern
- ◆ 19" Width X 18' Depth
- ◆ Swing Gate Rack Allows Access To Back Side Of Rack



NRRSWM1924

SWING GATE RACKS	
NRRSWM1924	WALL RACK 24"HX19"WX18"D
NRRSWM1936	WALL RACK 36"HX19"WX18"D
NRRSWM1948	WALL RACK 48"HX19"WX18"D

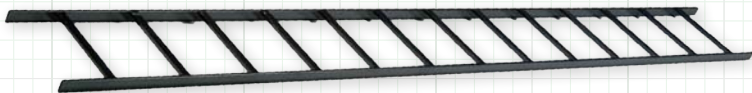
FIXED WALL MOUNT RACKS	
NWMRR241918	WALLMOUNT RACK 24"HX19"WX18"D
NWMRR361918	WALLMOUNT RACK 36"HX19"WX18"D
NWMRR481918	WALLMOUNT RACK 48"HX19"WX18"D

2 POST RACK	
NRR45U2PBK	45U, 7' X 19" RELAY RACK

4 POST ADJUSTABLE RACK	
NRR45U4PSRBK	45U, 7'H X 19" WIDE X 24" - 36" DEPTH



NRR45U4PSRBK



NLR12-10

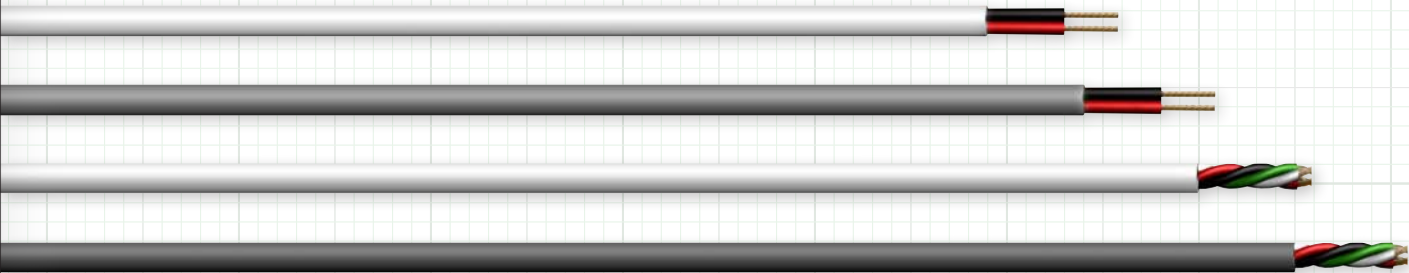
LADDER RACKS & ACCESSORIES			
NLR12-10	12" W x 10' LADDER RACK	NLREC	LADDER RACK END CAP PR
NLRHB12	12" LADDER RACK, HORIZ BEND	NLRRRTP12	12" RACK TO RUNWAY PLATE
NLRUVB12	12" UNIV RADIUS BEND LADDER	NLR8RPK	8" RETAINING POST KIT
NLRBSK	BUTT SPLICE KIT - STRAIGHT PR	NLRSSK	LADDER RACK STANDOFF SUPPORT KIT
NLRGSK-ANG	BUTT SPLICE KIT - 90 OR 45 PR	NLRTBKT	T JUNCTION BRACKET KIT
NLRCRDC12	12" CABLE RADIUS DROP	NLRWASK12	12" TRIANGLE WALL SUPPORT
NLRRCRDS	RADIUS DROP SIDE/STRINGER	NLRWAB12	12" WALL ANGLE SUPPORT BRACKET

22 Gauge Multiconductor Cable

22/2, 22/4, 22/6 Multiconductor

APPLICATION:

Indoor Usage for Intercom, Security, Sound and Audio Systems, Control Circuits Smoke Detectors, Door Controllers



OTHER COLORS AVAILABLE:

BEIGE (15) BLACK (02), BLUE (06), BROWN (07), GREEN (04), GRAY (09), ORANGE (08), PURPLE (10), RED (03), YELLOW (05) WHITE (01)

PUT UP CODE:

1000' BOX (10), 1000' REEL (11), 500' BOX (50), 500' REEL (51), 500' COIL PACK (52)

CMR CABLE FEATURES:

- ◆ NEC ARTICCLE 725
- ◆ NEC ARTICLE 800
- ◆ UL 13 TYP CL2R
- ◆ UL 444 CMR

CMP CABLE FEATURES:

- ◆ NEC ARTICCLE 725
- ◆ NEC ARTICLE 800
- ◆ UL 13 TYPE CL2P
- ◆ UL 444 CMP
- ◆ RoHS

CMR GRAY	PRODUCT DESCRIPTION	CMP WHITE
N2202-1006-0110	22/2(7)BC 1000' BOX	N2202-1008-0110
N2202-1006-0111	22/2(7)BC 1000' REEL	N2202-1008-0111
N2202-1006-0150	22/2(7)BC 500' BOX	N2202-1008-0150
N2202-1006-0152	22/2(7)BC 500' Coil Pack	N2202-1008-0152
N2202-1016-0910	22/2(1)BC 1000' BOX	N2202-1018-0110
N2202-1016-0911	22/2(1)BC 1000' REEL	N2202-1018-0111
N2202-1016-0950	22/2(1)BC 500' BOX	N2202-1018-0150
N2202-1016-0952	22/2(1)BC 500' Coil Pack	N2202-1018-0152
N2202-1106-0910	22/2(7)BC OAS 1000' BOX	N2202-1108-0110
N2202-1106-0911	22/2(7)BC OAS 1000' REEL	N2202-1108-0111
N2204-1006-0910	22/4(7)BC 1000' BOX	N2204-1008-0110
N2204-1006-0911	22/4(7)BC 1000' REEL	N2204-1008-0111
N2204-1006-0950	22/4(7)BC 500' BOX	N2204-1008-0150
N2204-1006-0952	22/4(7)BC 500' Coil Pack	N2204-1008-0152
NN2204-1016-0910	22/4(1)BC 1000' BOX	NN2204-1018-0110
NN2204-1016-0911	22/4(1)BC 1000' REEL	NN2204-1018-0111
NN2204-1016-0950	22/4(1)BC 500' BOX	NN2204-1018-0150
NN2204-1016-0952	22/4(1)BC 500' Coil Pack	NN2204-1018-0152
N2204-1106-0910	22/4(7)BC OAS 1000' BOX	N2204-1108-0110
N2204-1106-0911	22/4(7)BC OAS 1000' REEL	N2204-1108-0111
N2206-1006-0910	22/6(7)BC 1000' BOX	N2206-1008-0110
N2206-1006-0950	22/6(7)BC 500' BOX	N2206-1008-0150
N2206-1106-0910	22/6(7)BC OAS 1000' BOX	N2206-1108-0110
N2206-1106-0950	22/6(7)BC OAS 500' BOX	N2206-1108-0150

22/2 CONDUCTOR STRANDED BARE COPPER

22/2 CONDUCTOR SOLID BARE COPPER

22/2 CONDUCTOR STRANDED BARE COPPER ALUMINUM MYLAR SHIELD AND DRAIN

22/4 CONDUCTOR STRANDED BARE COPPER

22/4 CONDUCTOR SOLID BARE COPPER

22/4 CONDUCTOR STRAND BARE COPPER ALUMINUM MYLAR SHIELD AND DRAIN

22/6 CONDUCTOR STRANDED BARE COPER

22/6 CONDUCTOR STRANDED BARE COPPER ALUMINUM MYLAR SHIELD AND DRAIN

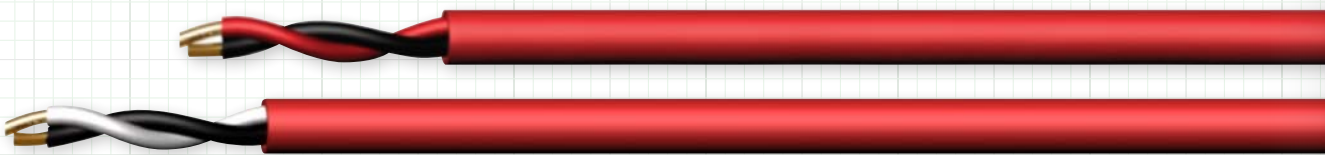


Fire Alarm Cable

FPLR / FPLP

APPLICATION:

Fire Alarm Systems and Control Circuits



FPLR SPECIFICATION:

- ◆ NEC ARTICLE 725
- ◆ NEC ARTICLE 760
- ◆ UL13 TYPE CL3R
- ◆ UL 1424 FPLR
- ◆ UL 444 CMR
- ◆ RoHS COMPLIANT

FPLP SPECIFICATION:

- ◆ NEC ARTICLE 725
- ◆ NEC ARTICLE 760
- ◆ UL 13 TYPE CL3P
- ◆ UL 1424 FPLP
- ◆ EU 2001/65/EU
- ◆ RoHS

FPLR	PRODUCT DESCRIPTION	FPLP
N1802-7016-0310	18/2(1)BC RED 1000' BOX	N1802-7018-0310
N1802-7016-0311	18/2(1)BC RED 1000' REEL	N1802-7018-0311
N1802-7016-0350	18/2(1)BC RED 500' BOX	N1802-7018-0350
N1802-7016-0351	18/2(1)BC RED 500' REEL	N1802-7018-0351
N1804-7016-0310	18/4(1)BC RED 1000' BOX	N1804-7018-0310
N1804-7016-0311	18/4(1)BC RED 1000' REEL	N1804-7018-0311
N1804-7016-0350	18/4(1)BC RED 500' BOX	N1804-7018-0350
N1804-7016-0351	18/4(1)BC RED 500' REEL	N1804-7018-0351
N1602-7016-0310	16/2(1)BC RED 1000' BOX	N1602-7018-0310
N1602-7016-0311	16/2(1)BC RED 1000' REEL	N1602-7018-0311
N1602-7016-0350	16/2(1)BC RED 500' BOX	N1602-7018-0350
N1602-7016-0351	16/2(1)BC RED 500' REEL	N1602-7018-0351
N1604-7016-0310	16/4(1)BC RED 1000' BOX	N1604-7018-0310
N1604-7016-0311	16/4(1)BC RED 1000' REEL	N1604-7018-0311
N1604-7016-0350	16/4(1)BC RED 500' BOX	N1604-7018-0350
N1604-7016-0351	16/4(1)BC RED 500' REEL	N1604-7018-0351
N1402-7016-0310	14/2(1)BC RED 1000' BOX	N1402-7018-0310
N1402-7016-0311	14/2(1)BC RED 1000' REEL	N1402-7018-0311
N1402-7016-0350	14/2(1)BC RED 500' BOX	N1402-7018-0350
N1402-7016-0351	14/2(1)BC RED 500' REEL	N1402-7018-0351
N1404-7016-0310	14/4(1)BC RED 1000' BOX	N1404-7018-0310
N1404-7016-0311	14/4(1)BC RED 1000' REEL	N1404-7018-0311
N1404-7016-0350	14/4(1)BC RED 500' BOX	N1404-7018-0350
N1404-7016-0351	14/4(1)BC RED 500' REEL	N1404-7018-0351
N1202-7016-0310	12/2(1)BC RED 1000' BOX	N1202-7018-0310
N1202-7016-0311	12/2(1)BC RED 1000' REEL	N1202-7018-0311
N1202-7016-0350	12/2(1)BC RED 500' BOX	N1202-7018-0350
N1202-7016-0351	12/2(1)BC RED 500' REEL	N1202-7018-0351

OTHER COLORS AVAILABLE:

BEIGE (15) BLACK (02), BLUE (06), BROWN (07), GREEN (04), GRAY (09), ORANGE (08), PURPLE (10), RED (03), YELLOW (05) WHITE (01)

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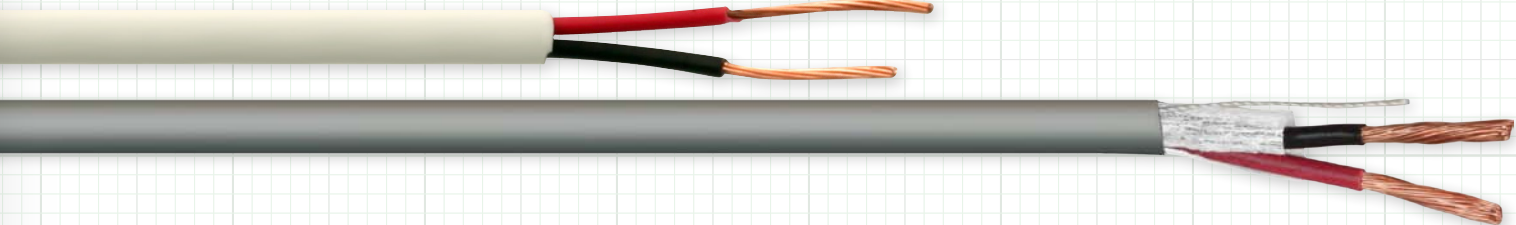
1000' BOX (10), 1000' REEL (11), 500' BOX (50), 500' REEL (51)

Alarm & Signal Cable

18 - 12 Gauge Multiconductor

APPLICATION:

Indoor Intercom, Security, Sound and Audio Systems, Control Circuits Smoke Detectors, Door Controllers



CMR GRAY	PRODUCT DESCRIPTION	CMP WHITE
N1802-1006-0910	18/2(7)BC CMR 1M BX	N1802-1008-0110
N1802-1016-0910	18/2(1)BC CMR 1M BX	N1802-1018-0110
N1802-1106-0910	18/2(7)BC OAS CMR/CL3R 1BX	N1802-1108-0110
N1802-1108-0110	18/2(7)BC OAS CMP WHITE 1M BX	N1802-1108-0110
N1804-1006-0910	18/4(7)BC CMR 1M BX	N1804-1008-0110
N1804-1016-0910	18/4(1)BC CMR 1M BX	N1804-1018-0110
N1804-1106-0910	18/4(7)BC OAS CMR/CL3R 1BX	N1804-1108-0110
N1806-1006-0910	18/6(7)BC CMR 1M BX	N1806-1008-0110
N1806-1016-0910	18/6 CMR 1M BX	N1806-1018-0110
N1806-1106-0910	18/6(7)BC OAS CMR/CL3R 1BX	N1806-1108-0110
N1602-1006-0910	16/2(19)BC CMR 1M BX	N1602-1008-0110
N1602-1016-0910	16/2(1)BC CMR 1M BX	N1602-1018-0110
N1602-1106-0910	16/2(19)BC OAS CMR/CL3R 1BX	N1602-1108-0110
N1604-1006-0910	16/4(19)BC CMR 1M BX	N1604-1008-0110
N1604-1016-0910	16/4(1)BC CMR 1M BX	N1604-1018-0110
N1604-1106-0910	16/4(19)BC OAS CMR/CL3R 1BX	N1604-1108-0110
N1604-1108-0110	16/4(19)BC OAS CMP WHITE 1M BX	-
N1402-1006-0910	14/2(19)BC CMR CL3R 1M BX	N1402-1008-0110
N1404-1006-0910	14/4(19)BC CMR CL3R 1M BX	N1404-1008-0110
N1202-1006-0911	12/2(19)BC CMR CL3R 1M' REEL	N1202-1008-0111

CMR CABLE FEATURES:

- ◆ CMR, CL3R, FPLR, FT4
- ◆ NEC 725/760
- ◆ UL 1424

CMP CABLE FEATURES:

- ◆ CMP, CL3P, FPLP, FT6
- ◆ NEC 725/760
- ◆ UL 1424

OTHER COLORS AVAILABLE:

BEIGE (15) BLACK (02), BLUE (06), BROWN (07), GREEN (04), GRAY (09), ORANGE (08), PURPLE (10), RED (03), YELLOW (05) WHITE (01)

MID FLEX AUDIO APPLICATION:

Home & Commercial Speaker Cable

AUDIO CABLE FEATURES:

NEC 725 & 800
UL 444 CMR CSA FT4
RoHS

HIGH FLEX AUDIO APPLICATION:

Pro Audio & High End Home Audio Systems

MID FLEX AUDIO CABLES		HIGH FLEX AUDIO CABLE	
N1602-1206-0150	16/2(26)BC MIDFLEX CMR 500' BOX WHITE	N1602-1306-0150	16/2(65)BC HIGH FLEX CMR 500' BOX WHITE
N1604-1206-0150	16/4(26)BC MIDFLEX CMR 500' BOX WHITE	N1604-1306-0550	16/4(65)BC HIGH FLEX CMR 500' BOX YELLOW
N1402-1206-0550	14/2(41)BC MIDFLEX CMR 500' BOX WHITE	N1402-1306-0150	14/2(105)BC HIGH FLEX CMR 500' BOX WHITE
N1404-1206-0150	14/4(41)BC MIDFLEX CMR 500' BOX WHITE	N1404-1306-0151	14/4(105)BC HIGH FLEX CMR 500' BOX WHITE
N1202-1206-0150	12/2(65)BC MIDFLEX CMR 500' BOX WHITE	-	-

Access Control Cables

FPLR / FPLP

SPECIFICATION:
Each Member Is Stranded Bare Copper And Individually Jacketed Available With An Overall Yellow Jacket Or "SW" Which Is A Nylong String Wrap Binding The 4 Members Together.

This Cable Is Offered With Two Different 22/6 Conductor Options (*, **)

COAX and Siamese Cable

APPLICATION: CATV Systems

RG6 DUAL SHIELD
(60% ALUNUM BRAID OVER ALUMINUM MYLAR SHIELD)

QUAD SHIELD: ALUMINUM MYLAR TAPE/60% ALUMINUM BRAID/ALUNINUM MYLAR TAPE/ 40% ALUMINUM BRAID

CCTV Coax

APPLICATION: CCTV & Video Surveillance

CCTV COAX: BC CENTER CONDUCTOR
95% BARE COPPER BRAID

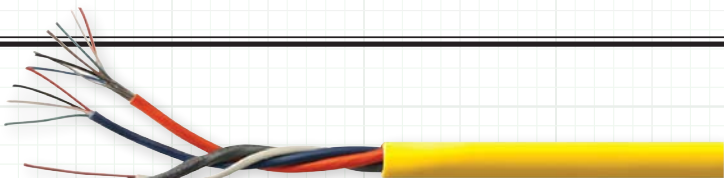
Siamese Cable - CCTV

APPLICATION: CCTV Video & Power

COAX: BARE COPPER CENTER CONDUCTOR / AND 95% BARE COPPER BRAID PAIRED WITH 18/2(7) BARE COPPER

COAX: BARE COPPER CENTER CONDUCTOR / AND 95% CCA (COPPER CLAD ALUMINUM) BRAID PAIRED WITH 18/2(7) BARE COPPER

COAX: BARE COPPER CENTER CONDUCTOR / AND 95% CCA (COPPER CLAD ALUMINUM) BRAID PAIRED WITH 18/2(7) CCA (COPPER CLAD ALUMINUM) Only CL2 Listed



CMR/FT4	
NCOMB-3306-0551	22/4+22/2+18/4+22/3PR OAS CMR JKT YELLOW 500' REEL
NCOMB-3206-0551	22/4+22/2+18/4+22/6 OAS CMR JKT YELLOW 500' REEL
NCOMB-3106-SW51	22/4+22/2+18/4+22/3PR OAS SPEED WRAP 500' REEL
NCOMB-3006-SW51	22/4+22/2+18/4+22/6 OAS SPEED WRAP 500' REEL
CMP/FT6	
NCOMB-3308-0551	22/4+22/2+18/4+22/3PR OAS CMP JKT YELLOW 500' REEL
NCOMB-3208-0551	22/4+22/2+18/4+22/6 OAS CMP JKT YELLOW 500' REEL
NCOMB-3108-SW51	22/4+22/2+18/4+22/3PR SPEED WRAP 500' REEL
NCOMB-3008-SW51	22/4+22/2+18/4+22/6 OAS SPEED WRAP 500' REEL

* 22/6(7)BC With An Over All Aluminum Mylar Shield and Drain, Jacketed

** 22/3PR(7)BC Over All Aluminum Mylar Shield and Drain, Jacketed



CMR B&W	CATV	CMP WHITE
NRG6U-4206-0210	RG6U CCSDUAL SHLD 60% BLACK 1000' BOX	–
NRG6U-4206-0110	RG6U CCSDUAL SHLD 60% WHITE 1000' BOX	NRG6U-4208-0110
NRG6U-4206-0250	RG6U CCSDUAL SHLD 60% BLACK 500' BOX	–
NRG6U-4206-0150	RG6U CCSDUAL SHLD 60% WHITE 500' BOX	NRG6U-4208-0150
NRG6Q-4406-0210	RG6U CCS QUAD SHLD BLACK 1000' BOX	–
NRG6Q-4406-0110	RG6U CCS QUAD SHLD WHITE 1000' BOX	NRG6Q-4408-0110
NRG6Q-4406-0250	RG6U CCS QUAD SHLD BLACK 500' BOX	–
NRG6Q-4406-0150	RG6U CCS QUAD SHLD WHITE 500' BOX	NRG6Q-4408-0150



CMR B&W	CCTV COAX	CMP WHITE
NRG59-5026-0210	RG59 BC 95% BC SHLD BLACK 1000' BOX	NRG59-5028-0210
NRG6U-4226-0210	RG6 BC 95% BC BRAID BLACK 1000' BOX	NRG6U-4228-0110



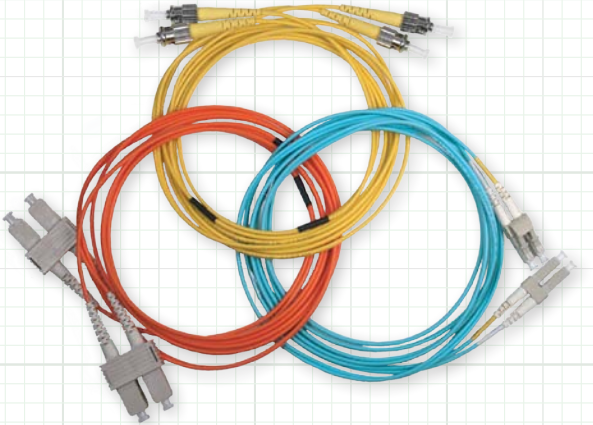
CMR B&W	SIAMESE CABLE- CCTV	CMP WHITE
NSIAM-5196-0210	RG59 18/2 BC COND AND BRAID BLACK 1000' BOX	NSIAM-5198-0210
NSIAM-5196-0250	RG59 18/2 BC COND AND BRAID BLACK 500' BOX	NSIAM-5198-0250
NSIAM-5196-0110	RG59 18/2 BC COND AND BRAID WHITE 1000' BOX	NSIAM-5198-0110
NSIAM-5196-0150	RG59 18/2 BC COND AND BRAID WHITE 500' BOX	NSIAM-5198-0150
NSIAM-5296-0210	RG59 18/2 BC COND CCA BRAID BC BLACK 1000' BOX	NSIAM-5298-0210
NSIAM-5296-0250	RG59 18/2 BC COND CCA BRAID BC BLACK 500' BOX	NSIAM-5298-0250
NSIAM-5296-0110	RG59 18/2 BC COND CCA BRAID BC WHITE 1000' BOX	NSIAM-5298-0110
NSIAM-5296-0150	RG59 18/2 BC COND CCA BRAID BC WHITE 500' BOX	NSIAM-5298-0150
NSIAM-5396-0210	RG59 18/2 CCA COND CCA BRAID BC BLACK 1000' BOX	NSIAM-5398-0210
NSIAM-5396-0250	RG59 18/2 CCA COND CCA BRAID BC BLACK 500' BOX	NSIAM-5398-0250
NSIAM-5396-0110	RG59 18/2 CCA COND CCA BRAID BC WHITE 1000' BOX	NSIAM-5398-0110
NSIAM-5396-0150	RG59 18/2 CCA COND CCA BRAID BC WHITE 500' BOX	NSIAM-5398-0150

* NOTE: Reels Available 1000' Reel (11), 500' Reel (51)

Fiber Jumper Cable

Duplex Fiber Optic Jumpers

ISO/IEC 11801, ETL Type cETLus, OFNR



SPECIFICATION:
Northern fiber patch cords are factory terminated resulting in un-compromised performance compared to field terminated cables. Available in 1, 2, 3, 4, 5, 7 & 10 meter lengths Custom sizes available by special order.

- FEATURES:**
- ◆ Singlemode and Multimode
 - ◆ Multiple Connector Types
 - ◆ Connector's design complies with TIA-604-3-B (SC), TIA-604-10-B (LC), IEC 61754-4 (SC) and IEC 61754-20 (LC) standards
 - ◆ 2MM OFNR Jacket
 - ◆ Multiple Lengths
 - ◆ Materials are compliant with RoHS 3 (2015/863), REACH (SVHC list release of January 15, 2019) and UL 94 V-0
 - ◆ Qualified to Telcordia GR-326-CORE issue 4 and IEC 61300 standards

PART NUMBER EXAMPLE:
NFJ8803C2RA3M
Northern Fiber Jumper, LC-LC, OM3 2.0mm, Dup 2F, Riser, Aqua, 3 Meter

NORTHERN BRAND	FIBER JUMPER	CONNECTOR	CONNECTOR	BOOT	FIBER TYPE	JACKET THICKNESS	DUPLEX CABLE TYPE	FLAME RATING	JACKET COLOR	METER LENGTH
N	FJ	8 = LC	8 = LC	0 = STRAIGHT	0 = OS2	C = 2mm	2 = 2F ZIP	R = OFNR	5 = YELLOW (OS2)	1M
		6 = SC	6 = SC		1 = OM1				8 = ORANGE (OM1)	2M
		5 = ST	5 = ST		3 = OM3				A = AQUA (OM3)	3M
										4M
										5M
										7M
										10M

Duplex Fiber Jumpers

CONNECTOR TYPE	OS2 SINGLE MODE	OM3 MULTIMODE
ST to ST	NFJ5500C2R51M	NFJ5503C2RA1M
ST to ST	NFJ5500C2R53M	NFJ5503C2RA3M
ST to ST	NFJ5500C2R510M	NFJ5503C2RA10M
SC to SC	NFJ6600C2R51M	NFJ5603C2RA1M
SC to SC	NFJ6600C2R52M	
SC to SC	NFJ6600C2R53M	NFJ5603C2RA3M
SC to SC	NFJ6600C2R510M	NFJ5603C2RA10M
LC to LC	NFJ8800C2R51M	NFJ8803C2RA1M
LC to LC	NFJ8800C2R52M	NFJ8803C2RA2M
LC to LC	NFJ8800C2R53M	NFJ8803C2RA3M
LC to LC	NFJ8800C2R54M	NFJ8803C2RA4M
LC to LC	NFJ8800C2R55M	NFJ8803C2RA5M
LC to LC	NFJ8800C2R57M	NFJ8803C2RA7M
LC to LC	NFJ8800C2R510M	NFJ8803C2RA10M

Duplex Gender Changer Fiber Jumpers

CONNECTOR TYPE	OS2 SINGLE MODE	OM3 MULTIMODE
SC to ST	NFJ5600C2R51M	NFJ5603C2RA1M
SC to ST	NFJ5600C2R53M	NFJ5603C2RA3M
SC to ST	NFJ5600C2R510M	NFJ5603C2RA10M
LC to ST	NFJ5800C2R51M	NFJ5803C2RA1M
LC to ST	NFJ5800C2R53M	NFJ5803C2RA3M
LC to ST	NFJ5800C2R510M	NFJ5803C2RA10M
LC to SC	NFJ6800C2R51M	NFJ6803C2RA1M
LC to SC	NFJ6800C2R52M	NFJ6803C2RA2M
LC to SC	NFJ6800C2R53M	NFJ6803C2RA3M
LC to SC	NFJ6800C2R55M	
LC to SC	NFJ6800C2R510M	NFJ6803C2RA10M



N2 HVR Series Models	N2HVR4	N2HVR8	N2HVR16	4-in-1 HD Camera Models	HDTIR90WD	HDAFDIR90INWD	HDAFDIR90WD	HDAFBIR120WD	HDBIR60WD	HDEIR60	HDDWMIR HDDWMIRW
Analog Camera Inputs	4 Ch.	8 Ch.	16 Ch.	Max Resolution	2 Megapixel, 1920 x 1080p						
Additional IP Camera Channels	+2	+4	+8	Multiple Formats	TVI - CVI - AHD - 960H Selectable						
Video Output	Simultaneous VGA & HMDI Main Monitor Outputs			Video Output	Single Main Output - Multiple Format Selectable via OSD Joystick						
Record Resolution	Up to 5MP Lite @ 10FPS Up to 1080p @ 15FPS			Lens Size	2.8mm	2.8-12mm Autofocus	2.8-12mm Autofocus	2.8-12mm Autofocus	2.8mm	2.8mm	3.6mm
Total IP Channel w/ Analog Disable	6	12	24	True Wide Dynamic Range	True WDR 120dB	True WDR 120dB	True WDR 120dB	True WDR 120dB	True WDR 120dB	Digital WDR	Digital WDR
IP Record Resolution	1080p Max			IR LED Count	1 High Power	15 IR LED	15 IR LED	30 IR LED	24 IR LED	18 IR LED	12 IR LED
Record Modes	Manual, Schedule (Regular, Continuous), Motion Detection, Alarm In			IR LED Range	90'	90'	90'	120'	60'	60'	60'
Audio Input (RCA)	1	8	6	True D/N IR Corrective	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Max Storage Size	8TB	16TB	16TB	UTC Control	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Zooming				OSD Joystick	Cable Mount						
Rack Mounting	N/A	Yes	Yes	Power Requirement	250mA Max	290mA Max	290mA Max	550mA Max	390mA Max	280mA Max	450mA Max
Free Mobile App	NorthernView Mobile App for iPhone, iPad, Adroid & Android Tablets			Housing Color	White	White	White	White	White	White	Gray / White
Software Included	Northern CMS, Utility Tool			Temp Rating	-14°F ~ 131°F	14°F ~ 131°F	-14°F ~ 131°F	-14°F ~ 131°F	-14°F ~ 131°F	-14°F ~ 131°F	-14°F ~ 122°F
				Weatherproof Rating	IP67	Indoor Only	IP66	IP67	IP66	IP66	IP66



4-in-1 HD Camera Models	HDDWMVFIR HDDWMVFIRW	HDMEIR90 HDMEIR90W	HDMBIR120 HDMBIR120W	HDBIR60	HDBVFIR120	HDDWIDE	HDBWIDE	HDLPCAM	HDMC / HDMCCP	HDBIR
Max Resolution	2 Megapixel, 1920 x 1080p									
Multiple Formats	TVI - CVI - AHD - 960H Selectable									
Video Output	Single Main Output - Multiple Format Selectable via OSD Joystick									
Lens Size	2.8-12mm	Motorized 2.8-12mm	Motorized 2.8-12mm	3.6mm	2.8-12mm	2.5mm (150° FoV)	2.5mm (150° FoV)	Motorized 9-22mm	3.6mm / 3.7mm Pinhole	3.7mm Pinhole
True Wide Dynamic Range	Digital WDR	Digital WDR	Digital WDR	Digital WDR	Digital WDR	Digital WDR	Digital WDR	Digital WDR	Digital WDR	Digital WDR
IR LED Count	18 IR LED	24IR LED	42 IR LED	48 IR LED	30 IR LED	24 IR LED	N/A	42 IR LED	N/A	N/A
IR LED Range	90'	90'	120'	60'	120'	60'	N/A	50'	N/A	N/A
True D/N IR Corrective	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
UTC Control	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
OSD Joystick	Cable Mount	Cable Mount	OSD Hatch	Cable Mount	Cable Mount	Cable Mount	Cable Mount	OSD Hatch	Cable Mount	Cable Mount
Power Requirement	550mA Max	430mA Max	600mA Max	350ma Max	550mA Max	350mA Max	130mA Max	900mA Max	100mA Max	100mA Max
Housing Color	Gray / White	Gray / White	Gray / White	White	White	White	Black	White	Black	White
Temp Rating	-14°F ~ 122°F	-14°F ~ 122°F	-14°F ~ 122°F	-14°F ~ 122°F	-14°F ~ 122°F	-14°F ~ 122°F	-14°F ~ 122°F	-22°F ~ 122°F	14°F ~ 122°F	14°F ~ 122°F
Weatherproof Rating	IP66	IP66	IP66	IP66	IP66	IP66	IP66	IP66	Indoor Only	Indoor Only



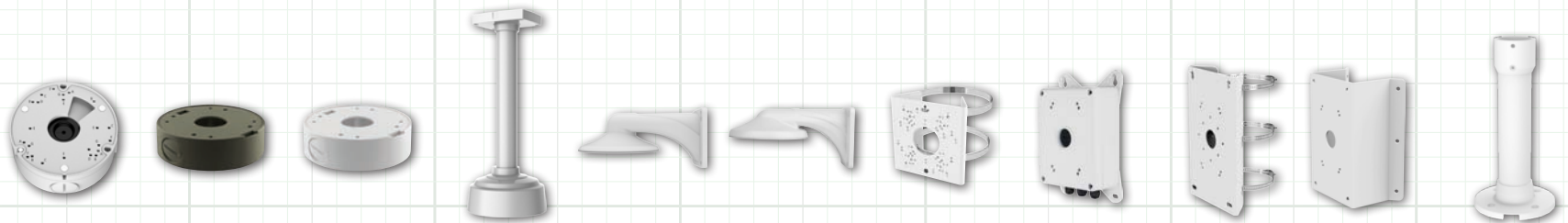
N2 Series IP Kit Models	N2NVR4KIT4C	N2NVR8KIT6C	N2 Series HD Analog Kit Models	N2HVR4KIT4C	N2HVR8KIT6C
Cameras Included	4	6	Cameras Included	4	6
Max IP Channels	4-Channel	8-Channel	Max Analog Channels	4-Channel	8-Channel
NVR Storage	2 Terabyte Built-in Storage		DVR Storage	2 Terabyte Built-in Storage	
NVR Compression	H.265 & H.264 Compression Formats		DVR Compression	H.265 & H.264 Compression Formats	
Record Modes	Manual, Schedule (Regular, Continuous), Motion Detection, Alarm In		Record Modes	Manual, Schedule (Regular, Continuous), Motion Detection, Alarm In	
Power Supply	External 48 Volt DC		Power Supply	Ext. 12 Volt DC 2A	Ext. 12 Volt DC 4A
Audio	3.5mm In/Out for 2-Way Audio		Audio	1 RCA Input	8 RCA Inputs
Incoming Bandwidth	40Mbps	80Mbps	Record Rate	15FPS @ 1080p	
Camera Resolution	4 Megapixel (2560x1440)		Camera Resolution	1080p (2 Megapixel)	
Camera Lens	2.8mm Fixed Focal IR Lens		Camera Lens	2.8mm Fixed Focal IR Lens	
Camera IR LED Range	18 IR LED's / 75' IR Range		Camera IR LED Range	18 IR LED's / 60' IR Range	
Weatherproof Rating	IP66		Weatherproof Rating	IP66	
Free Mobile App	NorthernView Mobile App for iPhone, iPad, Adroid & Android Tablets		Free Mobile App	NorthernView Mobile App for iPhone, iPad, Adroid & Android Tablets	
Free Software	Northern CMS, Utility Tool		Free Software	Northern CMS, Utility Tool	
Optional Accessories & Cameras			Optional Accessories & Cameras		
18" Security Monitor	LED18R – 1080p, HDMI/VGA Inputs		18" Security Monitor	LED18R – 1080p, HDMI/VGA Inputs	
24" Security Monitor	LED24R – 1080p, HDMI/VGA inputs, IR Remote		24" Security Monitor	LED24R – 1080p, HDMI/VGA inputs, IR Remote	
32" Security Monitor	LED32R – 1080p, HDMI/VGA inputs, IR Remote		32" Security Monitor	LED32R – 1080p, HDMI/VGA inputs, IR Remote	
4MP Autofocus IP Bullet	N2IP4AFB - 2.7-13.5mm, 120' IR		1080p Autofocus Bullet	HDAFBIR120WD - 2.8-12mm, 120' IR	
4MP Autofocus IP Dome	N2IP4AFD - 2.7-13.5mm, 90' IR		1080p Autofocus Dome	HDAFDIR90WD - 2.8-12mm, 90' IR	
4MP Fixed Lens Bullet	N2IP4B - 2.8mm Bullet, 100' IR		1080p Autofocus Indoor Dome	HDAFDIR90INWD - 2.8-12mm Dome 90' IR Indoor	
4MP Fixed Lens Turret	N2IP4T - 2.8mm Turret, 100' IR		1080p Fixed Lens Bullet	HDBIR60WD - 2.8mm Bullet, 60' IR	
4MP Fixed Lens Wedge	N2IP4W - 2.8mm Wedge, 100' IR		1080p Fixed Lens Turret	HDTIR90WD - 2.8mm Turret, 90' IR	
4MP Fixed Lens Dome	N2IP4D - 2.8mm Dome, 100' IR		1080p Varifocal Eyeball	HDDWMVFIR - 2.8-12mm Eyeball, 90'	
4MP Fixed Lens Dome	N2IP4D4MM - 4mm Dome, 100' IR		1080p Varifocal Bullet	HDMBIR120 - 2.8-12mm Bullet, 120' IR	
4MP Fixed Lens Eyeball	N2IPKITCAM - 2.8mm Eyeball, 75' IR		1080P Fixed Lens Eyeball	HDEIR60 - 2.8mm Eyeball, 60' IR	



N2 NVR Series Models	N2NVR4POE	N2NVR8POE	N2NVR16POE	N2NVR3216POE	N2 Series IP Camera Models	N2IP4B	N2IP4D / N2IP4D4MM	N2IP4T	N2IP4W	N2IP4AFB	N2IP4AFD	N2IPPTZ30X	
Maximum IP Cameras	4-Channel	8-Channel	16-Channel	32-Channel	Max Resolution	4.0 Megapixel						2.0 Megapixel	
Built-In POE Channels	4	8	16	16	POE	POE (IEEE 802.3af) & 12VDC						Hi-POE/24VAC	
Max Record Resolution	Up to 8MP			Up to 12MP	Wide Dynamic Range	Yes True 120dB Wide Dynamic Range							
Playback	4Ch @ 1080p			16Ch @ 1080p	Frame Rate	2560x1440 @ 30FPS						1920x1080 @ 30FPS	
Plug & Play Models	"N2 Series Only" N2IP4B, N2IP4D, NIP4D4MM, N2IP4T, N2IP4W, N2IP4AFB, N2IP4AFD, N2IPPTZ30X, N2IPKITCAM				Lens Size	2.8mm	2.8mm/4mm	2.8mm	2.8mm	Autofocus 2.7-13.5mm	Autofocus 2.7-13.5mm	30X Optical (4.5-135mm)	
Incoming Bandwidth	40 Mbps	80 Mbps	160 Mbps	320 Mbps	Smart Analytics	Perimeter, Single & Double Virtual Fence, Object Left, Object Removal							
Drive Bays	1	2	2	4	IR Distance	100'	100'	100'	45'	120'	100'	600'	
Max Storage	8TB	16TB	16TB	32TB	SD Card Slot	N/A	N/A	N/A	Yes 128GB Max	N/A	N/A	Yes 128GB Max	
POE Power	40W	80W	120W	160W	True D/N - IR Lens	Yes							
Record Modes	Manual, Schedule (Regular, Continuous), Motion Detection, Alarm In				Triple Streams	Yes							
Power Supply	External 48 Volt DC		Internal 120 -240 Volt AC		Compatibility	ONVIF Profile S/G/Q Compliant							
Multiple Outputs	HDMI & VGA Mirrored	Independent HDMI & VGA			Power Consumption	8W Max	8W Max	8W Max	6W Max	8W Max	8W Max	> 40W Max	
Audio	3.5mm In/Out for 2-Way Audio				Weatherproof Rating	IP67	IP67/IK10	IP67	IP66	IP67	IP66/IK10	IP66	
Free Mobile App	NorthernView Mobile App for iPhone, iPad, Adroid & Android Tablets				Free Mobile App	NorthernView Mobile App for iPhone, iPad, Adroid & Android Tablets							
Free Software	Northern CMS, Utility Tool				Free Software	Northern CMS, Utility Tool							

Mounting Accessories Guide

For Northern IP & 4-in-1 Cameras



IP & 4-in-1 HD Analog Camera Models	Fixed Camera Back Boxes			Fixed Camera Pendent, Wall Mounts & Pole Mount Adapter				PTZ Junction Box, Pole, Corner & Pendent Mounts			
	N2BB	DWMVFBB	DWMVFBBW	N2PM	N2WM	N2WMAFD	N2POLEMT	N2PTZJB	N2PTZPOLEMT	N2PTZCRNMT	N2PTZPENDMT
N2IP4B	❖						❖ ¹				
N2IP4D	❖			❖	❖		❖ ²				
N2IP4D4MM	❖			❖	❖		❖ ²				
N2IP4T	❖			❖	❖		❖ ²				
N2IP4W	❖			❖	❖		❖ ²				
N2IP4AFB	❖						❖ ¹				
N2IP4AFD	❖			❖		❖	❖ ³				
N2IPPTZ30X ⁴								❖	❖ ⁵	❖ ⁵	❖
HDEIR90	❖			❖	❖		❖ ²				
HDDWMVFIR		❖									
HDDWMVFIRW			❖								
HDBIR60WD	❖						❖ ¹				
HDAFBIR120WD	❖						❖ ¹				
HDTIR90WD	❖			❖	❖		❖ ²				
HDAFDIR90WD	❖			❖		❖	❖ ³				
HDAFDIR90INWD	❖			❖		❖	❖ ³				
HDPTZ33X ⁴								❖	❖ ⁵	❖ ⁵	❖

¹ N2POLEMT Can be used with or without N2BB Back Box

² N2POLEMT Requires N2WM Wall Mount or N2BB Back Box

³ N2POLEMT Requires N2WAFD Wall Mount or N2BB Back Box

⁴ N2IPPTZ30X & HDPTZ33X come with Included Wall Mount

⁵ N2PTZPOLEMT & N2PTZCRNMT compatible with PTZ Wall Mount & N2PTZJB Junction Box



INTERACTIVE CATALOG / PRODUCT INDEX



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WARRANTY & EXCHANGE TERMS

ALL PRODUCTS ISO 9001 CERTIFIED



VIDEO CAMERA PRODUCTS: WARRANTY TERM

All Stationary HD Analog (4-in-1), TVI/960 Cameras(3) YEAR
All Stationary IP Cameras(3) YEAR
All PTZ Cameras, IP, HD Analog (4-in-1), TVI/960(1) YEAR

MONITOR/DISPLAY PRODUCTS:

Flat Panel & Service Monitors(2) Years

VIDEO RECORDERS:

NVRPOE, NVRPOEH, N2 Series NVR's(3) YEAR
TVIDVR, HDDVR, N2 Series DVR's(3) YEAR
"DVRN960" Series Digital Video Recorders(2) YEAR

PROFESSIONAL A/V: WARRANTY TERM

HDMI Extenders, Splitters & Switches(3) YEAR

OTHER DEVICES:

Peripherals & Accessories(3) YEAR
Northern SLA Batteries(1) YEAR

OVER THE COUNTER (OTC) EXCHANGE POLICY:

Non-PTZ Cameras, Stationary IP, HD Analog 90 Days Exchange
TVI/960 Cameras, Monitors & Accessoriesfor New Equipment
All Digital Video Recorders 30 Days Exchange
Network Video Recorders & PTZ Camerasfor New Equipment

