KNC-p4TR*XIR
4 Megapixel IR Network Camera
Rugged Turret Style with EXIR Super Beam LED, IP66, PoE & DC12V

Plug & Play	4 Megapixel	Smart EXIR 100' Range
True Day/Night	IP66 Weather Resistant	Rugged Housing
PoE & DC12V	Dual Stream Record	Region of Interest
H.264 / H.264+	3D DNR	True WDR
Operates to -22° F	ONVIF	

Features

- Omni IP 'hand free' Plug-and-Play system: just connect to PoE switch and stream video
- View and record 4MP resolution at up to 20FPS from 1/3" progressive scan CMOS sensor
- Real time 30FPS streaming at 1920x1080 (1080p)/1280x720 (720p)
- Low light sensitivity of .01lux with
  - True Day/Night (ICR) for best daytime color reproduction and low/no light sensitivity
  - Low/no light coverage enhanced by EXIR Super Beam IR LED with 100 foot range
  - Smart IR Control of image contrast despite bright, close in objects in scene
- H.264+ substantially reduces main stream bandwidth and HDD file size when used with compatible KT&C NVRs
- True 120db WDR to handle the most challenging of bright or unbalanced lighting conditions
- Extensive OSD capabilities, many controlled directly from Omni IP NVR
  - Dual streaming in H.264/MJPEG with fixed/variable bandwidth control from 32Kb/s to 12.3Mb/s
  - Region of Interest allocates bandwidth to maximize resolution in priority areas within scene
  - Day/night and IR switching control by photo sensor or schedule (or disable IRs if desired)
  - In-camera detection of motion, video loss or tampering with alarm reporting to NVR
  - 3D DNR improves low light image clarity and reduces bandwidth/NVR disk utilization
  - DWDR compensates bright or unbalanced scene lighting
  - BLC specifically for handling scenes with back lit subjects
- Lens focal length of 4mm covers 70° field of view; optional 2.8mm lens for wider view
- Dual PoE/12VDC power
  - PoE for efficiency and convenience
  - 12VDC for legacy system upgrade or beyond PoE cable distance range
- Operate almost anywhere: IP66 weather resistance and -22°F~140°F temperature range
- Turret style housing is adjustable for 360° pan and rotatation, with 75° tilt for flexible positoning
- Support for Safari/Chrome/FireFox/IE web browsers with free plug-in
- Customize installation with KA-TRWM1 Wall Arm; KA-BRPM1 Pole Mount & KA-BRCM1 Corner Mount for use with KA-TRWM1

Ordering Information
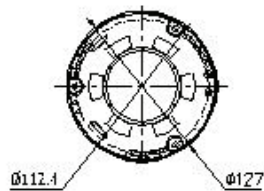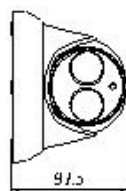**KNC-p4TR3XIR:** 2.8mm
KNC-p4TR4XIR: 4mm

OMNI-IP
Scalable IP Solutions

KNC-p4TR*XIR Specifications

OMNHIP
Scalable IP Solutions

Camera	
Image Sensor	1/3" Progressive Scan CMOS
Total Pixels (H x V)	2688x1520 4 Megapixel @ Maximum Resolution
Day & Night	True Day & Night with ICR; Controllable by light sensor or via schedule
Min. Illumination	.01lux @ F1.2, AGC on 0 Lux (IR LED On; IR may be disabled in OSD)
IR LED	One High Power EXIR LED 850nm
IR Distance	100 ft. (30m) Nominal IR performance depends on scene reflectivity
Smart IR	OSD Controlled Off/On
Shutter Speed	1/3s ~ 1/10,000s
WDR	120dB Range; Off/On, Level Adjust
BLC	BLC: Off/Top, Bottom, Left, Right, Center Weighted, or Custom Area
White Balance	AWB; Locked; Incandesecent, Warm, Natural or Fluorescent Light
3D DNR	Off/On, Level Adjust
Lens	
Focal Length (standard)	4mm F=2.0
Lens Options	2.8mm optional (KNC-pTDR3XIR)
Lens Type	Fixed focal length
Video	
Supported Resolutions	Main Stream: 2688x1520; 1920x1080; 1280x720
	Sub Stream: 352x240; 640x360
Maximum Frame Rates	20FPS@2688x1520 ; 30FPS@1920x1080 ; 30FPS@1280x720
	30FPS for sub stream
Compression	H.264+ Main Profile, H.264 Main Profile, MJPEG
Bit Rate	Nominal rates from drop down: 256, 512, 1024, 2048, 3072, 4096, 6144, 8192, 12288, 16384 Kbps Customized rates: 32Kbps~16384Kbps
Streaming	Dual-Stream at different frame rates and bandwidth
Region of Interest	Image detail priority/enhancement for up to four user defined areas for main and/or sub stream
Image Settings	Brightness, Contrast, Saturation, Sharpness, Hue, AGC Gain, Image rotation/mirror, 50/60Hz system, Text overlay (Name, Time/Date, Fixed Labels; adjusable for position, size, color, etc.), Privacy masking
Network	
LAN	Ethernet 10/100 Base-T (RJ-45 Type) with weather sealed shell
Security	Multiple user access levels with password protection; Watermarking of captured video, IP address filter; IEEE802.1X (Authentication)
Protocol	IPv4, IPv6, HTTP, HTTPS, TCP/IP, ICMP, DHCP, DNS, DDNS, RTP, RSTP, RTCP, uPnP, UDP, IGMP, PPPoE, SMTP, NTP, SNMP, HTTPS, FTP, 802.1X, QoS, Bonjour
Network Storage	Video upload to PC, FTP or NAS
VMS Compatibility	ONVIF (Profiles S & G), PSIA, CGI, ISAPI
Supported Browsers	Internet Explorer, Chrome, FireFox, Safari (with O/S compatible plug-in)
Intelligent Video	
Line Crossing Detection	"Up to 4 independent boundries, each with separate sensitivity control.
Area Intrusion Detection with Loitering Time	Up to 4 independent 4-sided areas, each with separate sensitivity, percentage and loitering time control. Arming schedule by day of week and time of day.
Video Motion Detection	With arming schedule and multiple actions: notify NVR, send email, upload to FTP, trigger alarm output
Alarms	
Alarm Triggers	Intelligent video Motion Detection, Video Loss, Tampering, Network Disconnect, IP Address Conflict, Storage Exception
Alarm Events	Notify NVR, send email, upload to FTP, trigger alarm output
Edge Recording	
NAS	Supports NFS, SMB/CFIS and ANR
General	
Reset Button	Yes
Angle Adjustment	3-Axis Pan: 0~360° Rotation: 0~360° Tilt: 0~75°
Power	PoE class 3 (IEEE 802.3af)
	12VDC +/- 10%
	7.5W (IR on; 5.5W nominal)
Interface	8P/8C RJ-45F for Network and PoE
	Power (DC 12V) Input
Environmental	IP66 (Weather Resistant)
Operating Temperature	-22 °F ~ 140 °F (-30 °C ~ 60 °C)
Impact Protection	IK-10 Vandal Resistant
Dimensions	5" diameter × 3.8" high (Ø127×97)
Weight	1.5 lbs./670g
Accessories	
Mounting Options	KA-TRJB1 Junction Box; KA-TRWM1 Wall Arm; KA-BRPM1 Pole Mount, KA-BRCM1 Corner Mount for use with KA-TRWM1

Dimensions: Inches (mm)

Accessories

KA-BRCM1
Corner Mount

KA-BRPM1
Pole Mount

KA-TRWM1
Wall Mount for
Turret Camera