

MCLDC™

DTV Box Camera

1080p True Day/Night DTV Video Transmission For Video Surveillance

- Digital Television (DTV) Camera for security surveillance usage.
- Box Camera comes with standard top and bottom screw hole for choice of outdoor enclosure or indoor mount.
- Provides multi-channel coaxial transmission H.264 stream for distance up to 1000 feet in standard coaxial cabling.
- Color Processing: Automatic exposure, analog gain, digital gain, color balance, gamma correction, backlight compensation, IR low light switching.
- Onboard physical 16 channel selector for pre-installation adjustment.



SDHM200BN • DATASHEET

The SDHM200BN is Digital Television (DTV) Camera that transmit standard Digital Television Video Signal. The benefit of this transmission method allows ease of re-use existing coaxial cabling. In new installation it is possible to use coaxial cable to transmit HD resolution images back to the DTV receiver (DTV - to IP) or DTV DVR. The device itself provide onboard adjustable channel selector switch for overall ease of installation without software tools. With up to 16 independent channels, all capable of transmit at least 1,000 feet from DTV Camera video source to DTV receiver devices.

The box camera is designed with two (2) screw holes, at top and bottom of the camera body. This allows the camera to be easily fitted into an enclosure. Camera and enclosure design solution creates an iconic deterrent to lower possible criminal activity.

Key Features

- **2MP (1080p) DTV Box camera**
- **1/2.5" CMOS Imaging Sensor**
- **True day/night capability with built-in auto mechanical IR mechanism**
- **Include a C/CS mount with back focus ring**
- **Tethered female BNC connector for DTV Video Output and Analog Video Output**
- **Autoiris connector and 16 position channel selector**
- **Non-polarized 12VDC/24VAC power input**
- **30fps@1920x1080, or Dual Stream enable at 24fps@1920x1080 / 24fps@720*480**

TECHNICAL SPECIFICATIONS

Camera	
Models	SDHM200BN
Image Sensor	1/2.5-inch CMOS sensor
Sensitivity Range	390nm to 940nm (800-940 IR illumination)
Pixel Dynamic Range Utilization	40dB
Day / Night	True Day/Night switchable IR cut filter
Minimum Illumination	1.0 lux, 0 visible lux with IR illumination
Shutter Speed	1/48,000th second to .25 seconds

Lens	
Mount Type	C / CS-mount (C-mount adapter not included)
Focus Control	Manual
Iris control	Autoiris connector available

Operational	
Encoder and Resolution / Frame Rate	H.264 1920x1080 @ 30FPS H.264 1920x1080 24fps and H.264 720x480 fps (Dual stream)
Image Settings	Video Compression: H.264 (MPEG-4 Part 10/AVC) Configurable H.264 streams framerate / Bitrate Frame Rate Brightness Control Backlight compensation / WDR Mode Backlight compensation level Color Saturation Contrast Sharpness White Balance Mode Backlight Compensation Mode Light Sync: 60hz / 50hz Analog Video Output: NTSC / Pal Mirror Invert 30fps mode

Environmental	
Operating Temperature / Humidity	Operating temperatures: -25° C (-13° F) and 50° C (122° F)

Electrical	
Input Voltage / Current	12V DC or 24VAC
Power Consumption	5W

DTV		
Supported standards	DVB-T	
Control channel	RS-232	
Frequency settings	16 position channel selector	
Transmission distance	Up to 1000 meters with 5C2V or RG-6/U Coaxial Cables	
Channel Frequency Usage	Channel Frequency	Channel Selector Position
	00=177MHz	0
	01=189MHz	1
	02=201MHz	2
	03=213MHz	3
	04=225MHz	4
	05=237MHz	5
	06=249MHz	6
	07=261MHz	7
	08=273MHz	8
	09=363MHz	9
	10=375MHz	A
	11=387MHz	B
	12=399MHz	C
	13=411MHz	D
	14=423MHz	E
	15=473MHz	F

General	
Connectors	Dual BNC Connectors BNC1 - DTV RF Output BNC2 - Analog Video Output Autoiris connector 12VDC/24VAC input
LED Indicators	System and DTV Signal LED indicators
Approvals	CE, FCC, RoHS
Unit Dimensions	5.3"L (134mm) 3.2"W (82mm) 2.2"H (56mm)
Unit Weight	10 Ounces (283 grams)
Package Dimensions	9.6"L (245mm) 5.5"W (140mm) 3.5"H (88mm)
Package Weight	14.2 Ounces (403 grams)