

HD-BX7 Box HD-SDI CCTV Camera

*Full 1080p High Definition Video Surveillance
Available with 2.8-12mm and 5-50mm Varifocal Auto-Iris Lens Options*



The HD-BX7 is an full **HD surveillance** box camera that uses **HD-SDI** CCTV technology capable of capturing exceptional video at **1080p (1920 x 1080) or 720p (1280 x 720) resolution**. The BX7 is an indoor only camera, *unless Box Camera is enclosed in one of our **weatherproof** housing.*

This HD-SDI Box security camera comes with a choice of “2.8mm to 12mm” or “5mm to 50mm” lens options. The camera has a **built-in IR cut filter & SENS up** function built into the firmware, allowing the BX7 to perform well in full light and low light environments.

Advanced “**On Screen Display**” (OSD) controls allow you to customize: *Light sensitivity, Color, exposure, white balance, Wide Dynamic Range (WDR), sharpness adjustments, and more.*

BX7 Features		
Model Number	HD-BX7-28	HD-BX-5
Lens size	2.8mm to 12mm Lens	5mm to 50mm Lens
Webpage Links	BX7 with 2.8 Lens	BX7 with 5 Lens
Extreme Housing (option)	The HPRO-601HB includes a Heater & Blower for extreme conditions.	
Basic Housing (option)	The HPRO-605 offers Basic weatherproofing protection.	
Camera Mounts (option)	We offer ivory bracket, black bracket or gray mounting bracket.	





CCTV Camera Pros

Video Surveillance Systems for Home, Business & Government

HD-BX7 Camera Specifications

HD-SDI Technology	<i>use only with HD-SDI compatible DVRs, such as Viewtron</i>
HD resolution	Switchable between 1080P (1920 x 1070) & 720P (1280 x 720)
TV Lines resolution	Over 1000 TVL (compared to CCTV)
Sensor	1/2.9 inch SONY CMOS
Total Pixels	2000 (H) X 1241 (V) = 2,482,000 total pixels
Effective Pixels	1944 (H) X 1092 (V) = 2,122,648 effective pixels
Scanning System	Progressive
Signal to Noise Ratio	S/N (Y signal) is more than 52 dB (AGC Off)
Video Output	SMPTE292M (HD-SDI) / CVBS: 1.0Vp-p (75ohm)
Minimum Illumination	1 LUX at F1.2 / 0.1 LUX in B&W
SENS_UP	Selectable SENS_UP : OFF, X2, X3, X3 (<i>to adjust ambient light amplification</i>)
Brightness	Adjustable from 0 ~ 20 STEP
Sharpness	Adjustable from 0 ~ 10 Step
WDR / BLC	Selectable: OFF, WDR (<i>Wide Dynamic Range</i>), BLC (<i>Backlight Compensation</i>)
White Balance	Selectable: Auto, Auto EXT, Preset or Manual
Electronic Shutter Speed	Selectable: Auto or Manual (1/30sec ~ 1/60,000sec)
Digital Noise Reduction (DNR)	Selectable: OFF, Low, Middle, High
True Day & Night (ICR)	Selectable: Auto (Day <-> Night Time change), Color, B&W, Extern and Mdir
Privacy	Selectable: OFF & ON (32 Zones)
Motion Detections	Selectable: OFF & ON
Digital Zoom	Adjustable 0 ~ X127
FLIP	Selectable: OFF & ON
Freeze	Selectable: OFF & ON
Image Conversion	Selectable: OFF & ON
Language	English only

ENVIRONMENTAL

Power Supply	DC12V-AC24V ±10% Dual Power
Operating Temp. / Humidity	-10°C to +50°C / 30°F to 80°F / 30%~80% RH
Storage Temp. Range	-20°C to +60°C / 20°F to 90°F / 20%~90% RH
Camera Dimensions	Width: 72mm (2.82 In), Height 66mm (2.6 In) & length: 145mm (5.7 In).

Power Input Terminal:
Dual voltage 12V/24V. Connect camera to a power source, usually 18/2 power cable on RG-59 (Siamese) cabling.

Power Lamp: indicates when camera is turned on.

CVBS BNC port:
Analog SD (standard resolution) Video connector.



RS-485 Communication port:
Access & control camera OSD menu remotely.

OSD control joystick: On Screen Display (OSD) function button.

HD-SDI BNC port:
SDI (High Def.) Video connector.



OSD Menu (<i>Advanced On Screen Display controls</i>)	
Exposure	SENS_UP : low light adjustment & noise reduction, Brightness : adjust levels to need, Shutter : Select Manual or Auto settings, Lens : (Iris Control), Mode : Select Indoor or Outdoor, AGC (auto gain control): Increase gain for brighter image, FREQ : AC Power Frequency Set.
White Balance	AWB : Auto White Balance, Chroma : Color Saturation.
Image	Sharpness , Mirror / Flip function, Freeze (video), D. Zoom (digital zoom), Privacy for area masking, Shading : darkness compensation, HLM : High Light Masking, ACE : adaptive Color & Contrast Enhancement.
WDR / BLC	WDR : Wide Dynamic Range control, BLC : Backlight Compensation.
DNR	DNR : Digital Noise Reduction.
Day & Night	Control Color and B&W modes.
Motion	Control " Motion " Resolution and Sensitivity.
Serial	Select and View " Camera ID ", On Camera " ID Display ", Baud rate Control.
System (Configuration)	Scale : Full or Compressed image out, Gamma Set, Format : select 1080p or 720p, Frame : set output frame to 20 or 30 in 1080p, or 50 or 60 in 720p), Defect DET : control light to Lens, FCM Mode : Focusing mode.

Select OSD Features Explained

- 1. True Day & Night:** Camera can automatically select the most appropriate mode for day or night lighting conditions. The color operates in day time conditions and provides optimum colors, and the black and white enhances contrasts.
- 2. Digital Noise Reduction or DNR:** reduce illumination and Signal to Noise ratio (S/N Ratio) image noise, and improve horizontal resolution, resulting in clearer images, even in darker environments.
- 3. Wide Dynamic Range or WDR:** helps to deliver more balanced image by increasing exposure in dark areas and decreasing it in brighter areas.
- 4. Privacy Functions:** This feature allows you to select specific areas of the screen which would be recorded. This feature is useful in offices, where a door needs to be monitored but not the office right next to it.