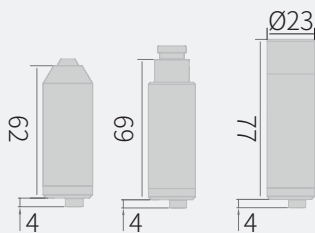


HD-SDI Camera

# HBD230M

- 1/2.8" 2.43MP Progressive Scan CMOS
- Min. Illumination of 0.9 Lux
- Fixed Board / Pinhole Lens
- 3DNR, DSS, BLC
- 12VDC Max. 110mA



# Features

## HBD230M

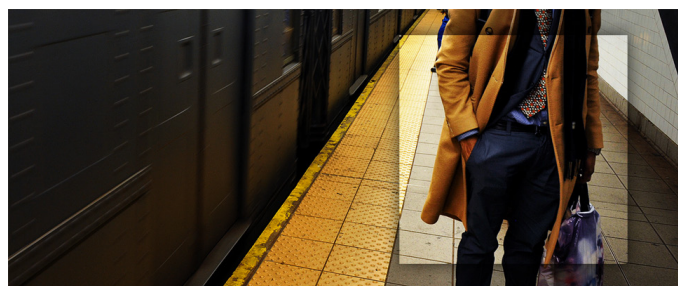
1/2.8" 2.43MP Progressive Scan CMOS  
Min. Illumination of 0.9 Lux  
Fixed Board / Pinhole Lens

3DNR, DSS, BLC



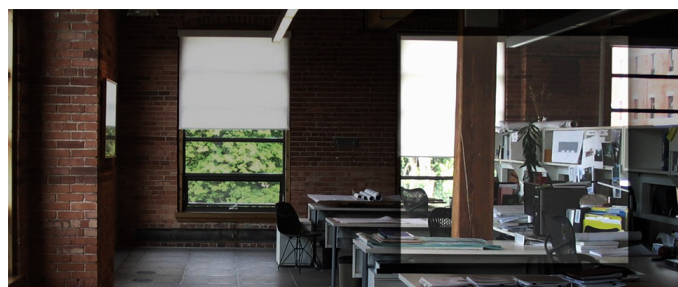
### 3DNR

DNR technology is crucial for surveillance camera. 3DNR works by analyzing the differences between successive frames in order to adjust pixels and improve.



### DSS

Digital Slow Shutter (DSS) technology enhances the low light performance of a camera, producing outstanding images in low light conditions. DSS slows the picture frame rate and increases the camera's sensitivity.

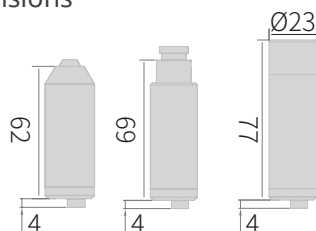


### BLC

BLC technology works by reducing the dynamic range of the entire image, while retaining the overall contrast. By compensating for unbalanced in a scene, detail is restored throughout the field of view so as to provide better visibility to identify an object of interest.

# HBD230M

## Dimensions



## Specifications

<b>Image Sensor</b>	1/2.8" Progressive Scan CMOS
<b>Effective Pixels</b>	1984(H) x 1225(V), 2.43MP
<b>Max. Video Resolution</b>	1080p@30(25)fps / 720p@60(50)fps
<b>Lens</b>	f=3.6mm / f=3.7mm (3MP) / f=4.3mm (3MP) / f=6mm (3MP) / f=8mm (1.3MP) / f=4.3mmP4 (1.3MP)
<b>FOV</b>	f=3.6mm (107.53°) / f=3.7mm (116.3°) / f=4.3mm (94.82°) / f=6mm (63.48°) / f=8mm (50.01°) / f=4.3mmP4 (89.54°)
<b>F-Stop</b>	f=3.6mm (F2.0) / f=3.7mm (F2.5) / f=4.3mm (F1.8) / f=6mm (F2.0) / f=8mm (F1.8) / f=4.3mmP4 (F2.0)
<b>Min. Illumination (AGC Max)</b>	0.9 Lux (F2.5, DSS Off) / 0.1 Lux (DSS Max.)
<b>S/N Ratio</b>	>50dB
<b>Shutter Speed</b>	1/30(1/25) s - 1/30,000 s
<b>IR LED</b>	-
<b>IR Distance</b>	-
<b>Day / Night</b>	Electronic D/N
<b>White Balance</b>	Auto / Auto ext / Push / Manual
<b>Digital Zoom Ratio</b>	1x - 20x
<b>WDR</b>	D-WDR

<b>BLC</b>	OFF/ON(Area adjustable)
<b>DNR</b>	3DNR
<b>DSS</b>	Off - 8x
<b>AGC</b>	0 ~ 20
<b>Other Function(s)</b>	FLIP(H/V/HV), HLMASK, SHARPNESS, GAMMA, LENS SHADING, PATTERN (COLOR BAR), DEFOG
<b>Privacy Masking</b>	16 zones
<b>Motion Detection</b>	-
<b>Video Output (Main)</b>	HD-SDI
<b>Video Output (Service)</b>	Composite
<b>OSD Control</b>	External Control (A/D Key)
<b>OSD Language</b>	ENGLISH, CHINESE
<b>Housing Material</b>	Aluminium
<b>IP Rating</b>	IP67 (Waterproof Type)
<b>Operating Temperature</b>	-10°C to 50°C (14°F to 122°F)
<b>Max. Power Consumption</b>	12VDC 110mA
<b>Dimensions (W x H x D mm)</b>	Ø23 x 77 (Waterproof Type Only)
<b>Weight</b>	Approx. 90 g (0.2 lbs)

## Ordering Information

HBD230M (Not all combinations are possible)

Signal Type	Lens	Optional Cable	Silk Printing	Color
NTSC	f=3.6mm (3MP)	None	OEM-printed	Black
PAL	f=3.7mm (3MP)	A/D KEY	OEM-printed	White
	f=6mm (3MP)		Non-printed	
	f=4.3mmP4 (1.3MP)			

## Accessory for this product

