



## Auto Focus Block Camera Module

# CBM Series

### Features:

- Full lineup 960H (650 TVL), HD (720p), Full HD (1080p)
- Extremely high sensitivity in Day/Night and IR Enhance mode
- Precise focus optimizes clarity of moving objects
- Computar's innovative Auto Focus technology provides continuous sharp images at night
- Smart IR function
- 3D Noise Reduction
- Defog function
- VISCA Protocol

# CBM Series

# Auto Focus Block Camera Module

## ■ Specifications

MODEL	CBM-SA3160	CBM-SA3300	CBM-SH5160	CBM-SH7200
Optics	960H 16x Optics	960H 30x Optics	1.3M 16x Optics	2M 20x Optics
Image Sensor	1/3" Interline CCD	1/3" Interline CCD	1/3" Progressive CMOS	1/3" Progressive CMOS
Model	ICX672 (Sony)	ICX672 (Sony)	ARO130( Aptina)	MN34041 (Panasonic)
DSP	CXD4130 (Sony)	CXD4130 (Sony)	A5S55 (Ambarella)	A5S66 (Ambarella)
Effective Pixels (H x V)	NTSC (976x494)	NTSC (976x494)	1280 x 720	1920 x 1080, 1280 x 720
Resolution	650 TVL	650 TVL	720p/30, 720p/25	1080p/30, 1080p/25, 720p/30, 720p/25
Video Output	CVBS:1.0Vp-p Y/C	CVBS:1.0Vp-p Y/C	Y/Cb/Cr422, 16 bit ITU-R BT.601	Digital: Y/Cb/Cr 4:2:2 (LVDS)
Horizontal Angle of View	46.4 ~ 3.0	51.3 ~ 1.8	46.4 ~ 3.0	54.1 ~ 2.9
Sync. System	inter-sync	inter-sync	-	-
Minimum Illumination	0.05 lx (ICR ON, 1/60 sec)	0.07 lx (ICR ON, 1/60 sec)	0.08 lx (ICR ON, 1/25 sec)	0.1 lx (ICR ON, 1/25 sec)
S/N Ratio	>50dB	>50dB	-	-
Minimum Distance	100mm ~ 1500mm	300mm ~ 3000mm	100mm ~ 1500mm	100mm ~ 1500mm
Electronic Shutter	1/60 ~ 1/10000	1/60 ~ 1/10000	1/25 ~ 1/10000	1/25 ~ 1/10000
White Balance	Auto / Push / ATW / Manual	Auto / Push / ATW / Manual	Auto / Manual	Auto / Manual
Operation Interface	VISCA Protocol	VISCA Protocol	VISCA Protocol	VISCA Protocol
Lens	16x Optical Zoom, Inner Focus f=5.6mm ~ 90.0mm F1.4 ~ F2.6	30x Optical Zoom, Inner Focus f=5.0mm ~ 150mm F1.6 ~ F4.8	16x Optical Zoom, Inner Focus f=5.6mm ~ 90.0mm F1.4 ~ F2.6	20x Optical Zoom, Inner Focus f=4.7mm ~ 94.0mm F1.6 ~ F3.5
Electronic Zoom	12X	12X	10X	10X
Zoom Moving Time	3.5sec (Focus Tracking ON)	3.8sec (Focus Tracking ON)	4.2sec (Focus Tracking ON)	2.8sec (Focus Tracking ON)
Operating Temperature / Humidity	32° F ~ 122° F 20% ~ 80%	32° F ~ 122° F 20% ~ 80%	23° F ~ 140° F 20% ~ 80%	23° F ~ 140° F 20% ~ 80%
Storage Temperature / Humidity	-4° F ~ 140° F 10% ~ 95%	-4° F ~ 140° F 10% ~ 95%	-4° F ~ 140° F 10% ~ 95%	-4° F ~ 140° F 10% ~ 95%
Power Source	DC12V ± 10%	DC12V ± 10%	DC12V ± 10%	DC12V ± 10%
Power Consumption	3.2W (Max)	3.2W (Max)	3.2W (Max)	3.4W (Max)
Weight	0.5 lbs / 240g	0.6 lbs / 260g	0.5 lbs / 240g	0.5 lbs / 240g
Dimensions	1.97" x 2.28" x 3.60" / 50mm x 58mm x 91.4mm	1.97" x 2.36" x 3.82" / 50mm x 60mm x 97mm	1.97" x 2.28" x 3.60" / 50mm x 58mm x 91.4mm	1.97" x 2.36" x 3.454" / 50mm x 60mm x 90mm

## ■ Functions

MODEL	CBM-SA3160	CBM-SA3300	CBM-SH5160	CBM-SH7200
Privacy Mask	Maximum 8 points	Maximum 8 points	No	No
Vertical Flip Function	Yes	Yes	Yes	Yes
Horizontal Flip Function	Yes	Yes	Yes	Yes
Alarm Output	No	No	No	No
Sensor Input	No	No	No	No
WDR	On/Off	On/Off	On/Off	On/Off
Sharpness	Selectable 16 steps	Selectable 16 steps	Selectable 16 steps	Selectable 16 steps
Color Gain Control	Selectable 8 steps	Selectable 8 steps	Selectable 16 steps	Selectable 16 steps
OSD	Yes	Yes	No	No
Camera Title	Yes	Yes	No	No
Motion Detection	No	No	No	No
Noise Reduction	3D DNR	3D DNR	3D	3D
Position Preset	No	No	No	No
Other	with Defog function	with Defog function	No	No

All specifications are subject to change without notice