



ACE-EDR380NU

750TVL WDR Module Camera

www.ktncusa.com

- 750TVL Horizontal Resolution
- Pinhole, Board, DC IRIS Varifocal Lens, C / CS
- 1/3"960H SONY Double Scan Super HAD CCD II
- Min. Illumination of 0.08 Lux (Color) / 0.04 Lux (B/W)
- True Day & Night with ICR Mechanism
- 3D DNR / BLC / DSS / AGC / AWB
- DC 12 V Power



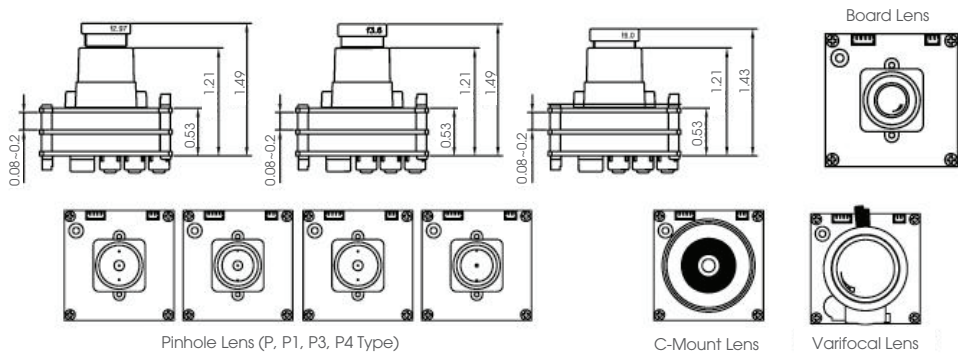
Resolution
960

Resolution 960

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General Feature Diagram Unit: (inch)



TYPE	Board Lens							Pinhole Lens			Varifocal (DC or DN)	C/CS Mount
	P1	P3	P4					P1	P3	P4		
Focal Length	2.45	2.95	3.6	6	8	12	16	3.7	3.7	4.3	4.0 ~ 9.0	C/CS Mount
Aperture	F2.0	F2.0	F2.0	F2.0	F2.0	F2.0	F2.0	F2.0	F2.0	F2.0	F1.6 ~ 360°	
Angle of View	150°	130°	92°	53°	40°	28°	19°	90°	90°	78°	98.0° ~ 38.0°	

Lens (mm)

ACE-EDR380NU

750TVL WDR Module Camera



Technical Specification

Signal System	NTSC		
Image Sensor	1/3" 960H SONY Double Scan Super HAD CCD II		
Scanning System	2:1 Interlace		
Horizontal Resolution	750TV Lines		
Scanning Frequency	15.734 KHz x 59.94 Hz (H x V)		
Total Pixels	Effective Pixels	1028 x 508 (H x V)	976 x 494 (H x V)
Synchronization	Internal		
Lens	Pinhole, Board, DC IRIS (IR Remove) Varifocal Lens, C / CS (DC / Video)		
Lens Type	Manual / DC Iris Lens		
S/N	More than 50dB (AGC Off, 3DNR On)		
Gamma	r = 0.45		
Min. Illumination	0.08 Lux (Color) / 0.04 Lux (B/W) (30 IRE@F1.2, AGC: High)		
Shutter Speed	1/60 ~ 1/100,000 sec		
Day & Night	True Day & Night with ICR Mechanism		
IR LED	Distance	N/A	
Day & Night Function	Auto, Color, B/W, EXT		
IP Rating	N/A		
Video Output Level	1.0 Vp-p Composite (75 Ω)		
On-Screen Display (OSD)	Built-in		
BLC	On / Off (Level adjustment, Area selection)		
DNR	3D DNR		
ATR	N/A		
White Balance	ATW, Push, Push-lock, Manual (R Gain, B Gain)		
Privacy Masking	15 Zones (Area adjustment)		
Mirror	Image reverse (Normal, H-Flip, V-Flip, HV-Flip)		
Motion Detection	On / Off (Level adjustable, Area adjustment)		
WDR	On / Off (Level adjustable)		
Digital Zoom Ratio	3x		
Digital Slow Shutter	Off, 2 ~ 128 Field		
Other Function	Freeze, Sharpness		
Language Option	English, Chinese, Russian, Spanish, German		
Operating Temperature	14 °F ~ 122 °F (-10 °C ~ 50 °C)		
Storage Temperature	-4 °F ~ 140 °F (-20 °C ~ 60 °C)		
Humidity	Less than 80 % RH		
Power Supply	DC 12 V (±10 %), Max. 170 mA		
External Control	A/D Key, RS-232C TTL (RS485 Option)		
Dimension	Weight	1.5 X 1.5 inch (38 x 38 mm) x 3 Board	0.1 lbs (35 g)



INNOVATIVE
HIGH DEFINITION SURVEILLANCE



ACE-M321NU

750TVL Module Camera

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- 750TVL Horizontal Resolution
- Pinhole, Board, Varifocal Lens, C / CS (DC)
- 1/3" SONY EXview HAD CCD II
- Min. Illumination of 0.05 Lux
- Digital Day & Night
- 2D DNR / HLC / ATR / AGC / AWB
- DC 12 V Power

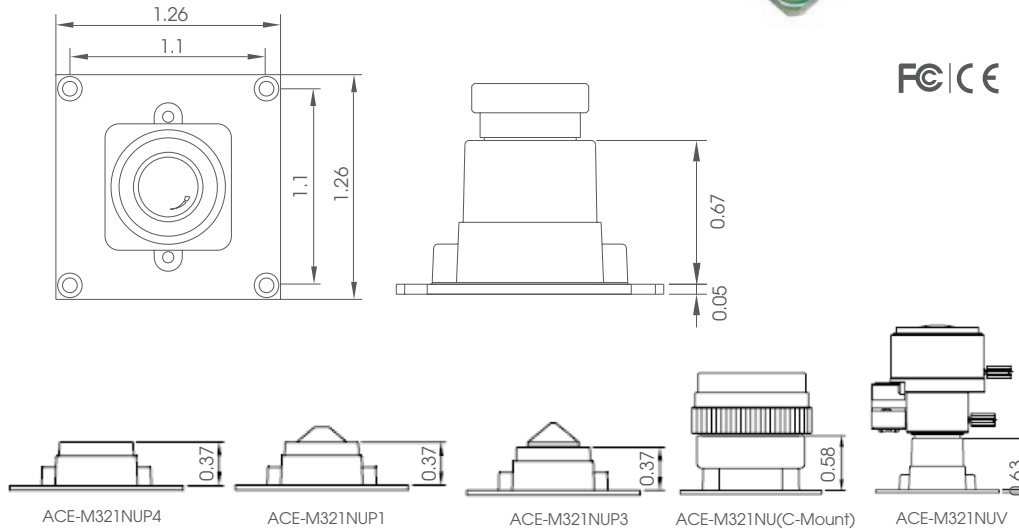
Resolution
960

Resolution 960

- 750TVL Horizontal Resolution
- Pinhole, Board, Varifocal Lens, C / CS (DC)
- 1/3" SONY EXview HAD CCD II
- Min. Illumination of 0.05 Lux
- Digital Day & Night
- 2D DNR / HLC / ATR / AGC / AWB
- DC 12 V Power



General Feature Diagram Unit: (inch)



TYPE	Board Lens												Pinhole Lens			Varifocal (V)	C/CS Mount
	P1	P3	P4										P1	P3	P4		
Focal Length	1.24	1.78	2.1	2.45	2.97	3.6	6	8	12	16	25	50	3.7	3.7	4.3	4.0 ~ 8.0	Lens Mount Only
Aperture	F2.8	F3.0	F2.0	F2.0	F2.0	F2.0	F2.0	F2.0	F2.2	F2.5	F2.5	F2.0	F2.0	F2.0	F2.0 ~ F2.8		
Angle of View	190°	170°	160°	150°	130°	92°	53°	40°	28°	19°	13.5°	9.2°	90°	90°	78°	89.2° ~ 44.2°	

Lens (mm)

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Horizontal Resolution	750TV Lines	
Scanning Frequency	15.734 KHz x 59.94 Hz (H x V)	
Total Pixels	Effective Pixels	1020 x 508 (H x V) 976 x 494 (H x V)
Synchronization	Internal	
Lens	Pinhole, Board, Varifocal Lens, C / CS (DC)	
Lens Type	Manual / DC Iris Lens (Optional)	
S/N	More than 50 dB (AGC Off)	
Gamma	r = 0.45	
Min. Illumination	0.05 Lux (30 IRE@F2.0)	
Shutter Speed	1/60 ~ 1/100,000 sec	
Day & Night	Digital Day & Night	
IR LED	Distance	N/A
Day & Night Function	Auto, Color, B/W, EXT1, EXT2	
IP Rating	N/A	
Video Output Level	1.0 Vp-p Composite (75 Ω)	
On-Screen Display (OSD)	N/A	
BLC	Off, BLC, HLC	
DNR	2D DNR	
ATR	On / Off (Level Adjustable)	
White Balance	ATW, Push, User1, User2, Anti CR, Manual, Push-lock	
Privacy Masking	4 Zones	
Mirror	On / Off	
Motion Detection	4 Zones	
WDR	N/A	
Digital Zoom Ratio	N/A	
Digital Slow Shutter	N/A	
Other Function	Brightness, Contrast, Sharpness, Hue, Gain	
Language Option	English, Japanese, German, French, Russian, Portuguese, Spanish, Chinese	
Operating Temperature	14 °F ~ 122 °F (-10 °C ~ 50 °C)	
Storage Temperature	-4 °F ~ 140 °F (-20 °C ~ 60 °C)	
Humidity	Less than 80 % RH	
Power Supply	DC 12 V (±10 %), Max. 100 mA	
External Control	N/A	
Dimension	Weight	1.26 x 1.26 inch (32 x 32 mm) N/A

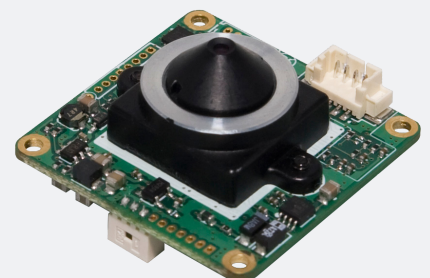
Camera Module

ACE-C320NU

- 1/3.2" 1.3M SONY STARVIS CMOS
- Horizontal 850TV Lines
- CVBS(1.0Vp-p Composite 75Ω)
- Varifocal DC Iris lens 2.8~12mm
- WDR, 2DNR
- Digital D&N
- Camera module

Optional

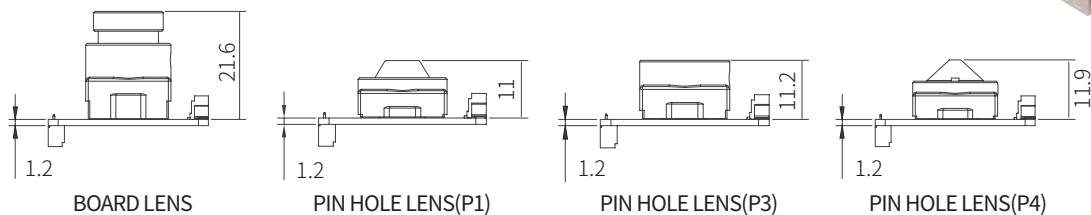
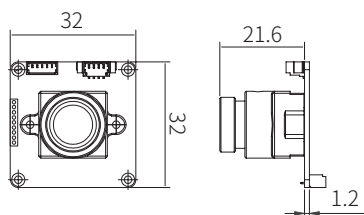
ACE-C320NUB	2.45mm board lens	
	2.97mm board lens	
	3.6mm board lens	
	4.3mm board lens	
	6mm board lens	
	8mm board lens	
ACE-C320NUP1	12mm board lens	
	16mm board lens	
	ACE-C320NUP1	3.7mm conical pinhole
	ACE-C320NUP3	3.7mm flat pinhole
ACE-C320NUP4	4.3mm supercone pinhole	



Camera Module

ACE-C320NU

Dimensions



Specifications

Image Sensor	1/3.2" Exmor RS Progressive Scan SONY STARVIS CMOS	Privacy Mask	-	
Effective Pixels	1.27MP 1297(H) x 977(V)	Image Rotation	OFF, H-FLIP, V-FLIP, HV-FLIP	
Max. Video Resolution	Horizontal 850TV Lines	Defog	OFF, AUTO	
Lens Type	Board mount lens	Sharpness	0-255	
Lens Focal Length	3.6mm, F 2.0	OSD control	-	
Lens Angle of View	94.91 (D)x81.9 (H)x66.5 (V)	Language	-	
Min.Illumination	0.2 Lux (30IRE, F2.0, AGC MAX)	Video Output mode	CVBS(1.0Vp-p Composite 75Ω) NTSC/PAL	
Gamma	$\gamma=0.45$	General		
IR LEDs	-	IP Rating	-	
IR Range	-	Operating Temperature	-10°C~+50°C(Humidity less than 80%)	
White Balance	ATW / PUSH / USER1 / USER2 / MANUAL / PUSH LOCK	Storage Temperature	-20°C~+60°C(Humidity less than 80%)	
Dynamic Range	WDR/BLC	WDR / ATR / OFF	Dimension(mm)	32mmX32mm
	D-WDR	OFF / HLC / BLC	Weight	Approx.4.5g
	Level	138.1dB	Power Source	12VDC(±10%)
Electronic Shutter Speed	AUTO or 1/60(50)~1/100,000	Power Consumption	12VDC(±10%), 70mA max.	
Digital Slow Shutter(DSS)	-			
Auto Gain Control(AGC)	MIN, 6, 12, 18, 24, 30, 36, 42, 48, MAX			
Day&Night	Electronic D&N			
Noise Deduction	2D-DNR (Y/C, Y, C, OFF)			
Motion Detection	-			

Camera Module

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- 1/3.2" 1.3M SONY STARVIS CMOS
- Horizontal 850TV Lines
- CVBS(1.0Vp-p Composite 75Ω)
- Varifocal DC Iris lens 2.8~12mm
- WDR, 2DNR
- Digital D&N
- Camera module

Optional

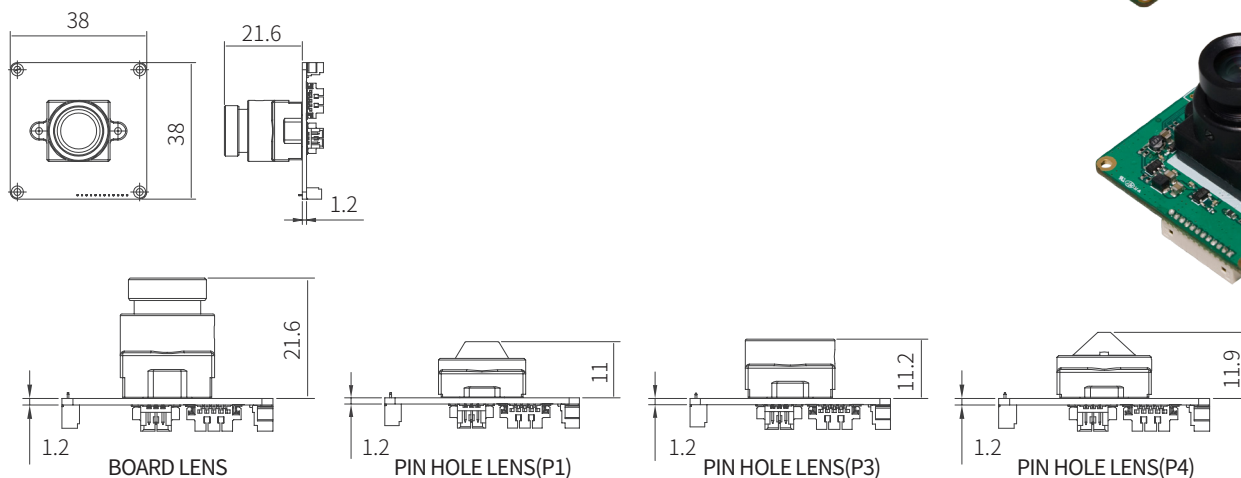
ACE-C380NUB	2.45mm board lens
	2.97mm board lens
	3.6mm board lens
	4.3mm board lens
	6mm board lens
	8mm board lens
ACE-C380NUP1	12mm board lens
	16mm board lens
	3.7mm conical pinhole
ACE-C380NUP3	3.7mm flat pinhole
ACE-C380NUP4	4.3mm supercone pinhole



Camera Module

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Dimensions



Specifications

Image Sensor	1/3.2" Exmor RS Progressive Scan SONY STARVIS CMOS	Privacy Mask	-	
Effective Pixels	1.27MP 1297(H) x 977(V)	Image Rotation	OFF, H-FLIP, V-FLIP, HV-FLIP	
Max. Video Resolution	Horizontal 850TV Lines	Defog	OFF, AUTO	
Lens Type	Board mount lens	Sharpness	0-255	
Lens Focal Length	3.6mm, F 2.0	OSD control	-	
Lens Angle of View	94.91 (D)x81.9 (H)x66.5 (V)	Language	-	
Min.Illumination	0.2 Lux (30IRE, F2.0, AGC MAX)	Video Output mode	CVBS(1.0Vp-p Composite 75Ω) NTSC/PAL	
Gamma	$\gamma=0.45$	General		
IR LEDs	-	IP Rating	-	
IR Range	-	Operating Temperature	-10°C~+50°C(Humidity less than 80%)	
White Balance	ATW / PUSH / USER1 / USER2 / MANUAL / PUSH LOCK	Storage Temperature	-20°C~+60°C(Humidity less than 80%)	
Dynamic Range	WDR/BLC	WDR / ATR / OFF	Dimension(mm)	38mmX38mm
	D-WDR	OFF / HLC / BLC	Weight	Approx.6.75g
	Level	138.1dB	Power Source	12VDC(±10%)
Electronic Shutter Speed	AUTO or 1/60(50)~1/100,000	Power Consumption	12VDC(±10%), 80mA max.	
Digital Slow Shutter(DSS)	-			
Auto Gain Control(AGC)	MIN, 6, 12, 18, 24, 30, 36, 42, 48, MAX			
Day&Night	Electronic D&N			
Noise Deduction	2D-DNR (Y/C, Y, C, OFF)			
Motion Detection	-			

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