

2022

Security Products



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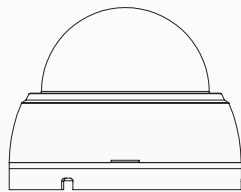
www.ktnc.co.kr



[07516] KT&C Bidg., 7,
Yangcheon-ro 11gil,
Gangseo-gu, Seoul, Korea

KT&C
Video Surveillance

ANALOGUE CAMERA



1/ Selection Guide

Model Name	KPC-CDI28V12IR KPC-CDI28V12	KPC-CDR28V12IR KPC-CDR28V12	KPC-C500	KPC-C700	KPC-C20	KPC-C190	KPC-CJ230	ACE-C380	ACE-C320
Image									
Type	Indoor Dome	Outdoor Dome	Mini Square	Mini Square	Mini Square	Mini Bullet	Mini Bullet	Module	Module
Image Sensor	1/3.2" 1.3M SONY STARVIS CMOS								
Max Resolution	Horizontal 800TV Lines								
Video Out mode	CVBS(1.0Vp-p Composite 75Ω) NTSC/PAL								
Lens	2.8-12mm(2MP), F 1.6			3.6mm, F 2.0			2.8-12mm(2MP), F 1.6		
D&N	IR: AUTO/MANUAL (Mechanical ICR True D&N) AUTO/MANUAL (Electronic D&N)			Electronic D&N					
IP Rating	N/A	IP68	N/A			IP67		N/A	

2/ Main Features

• Analogue Video Output



Four-in-one camera enables to output a video in various HD analogue transmission methods such as CVBS.

• Wide Dynamic Range

Wide dynamic range can represent a greater range of luminance levels than can be achieved with using the more traditional "Back light compensation". This is useful during any real-world scenes containing very bright, direct sunlight to extreme shade, or very faint.



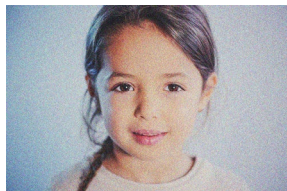
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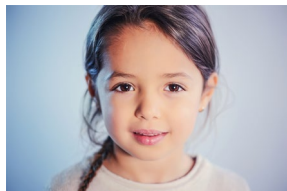
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• Noise Reduction

Noise reduction is the process of removing noise from a signal. The HZ78 series cameras are optimized to obtain extremely low-noise image by incorporating 2D/3D-DNR.



Before Noise Reduction Adjustment



After Noise Reduction Adjustment

• Image Rotation(E-Flip) and Freeze

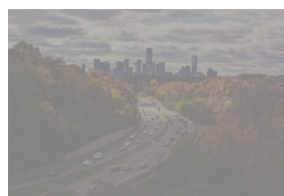
Image Rotation allows the images to be horizontally, vertically, or 180° reverse flipped. The Freeze function stills the image.

Normal Image Horizontal Flip Vertical Flip 180 Reverse Flip



• Defog

Defog enables clearer images during foggy and low contrast environments.












Defog(OFF)



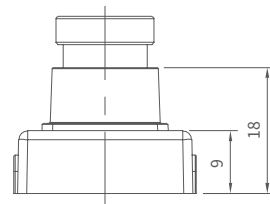
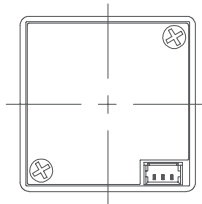
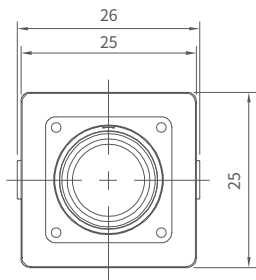
Defog(ON)

C Series Analogue Camera

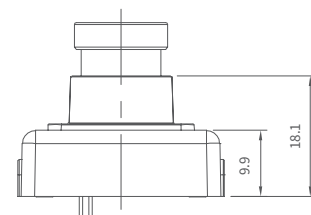
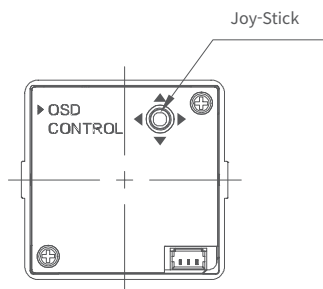
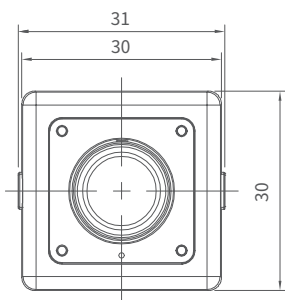
ANALOGUE

Model Name	KPC-CDI28V12IR KPC-CDI28V12	KPC-CDR28V12IR KPC-CDR28V12	KPC-C500	KPC-C700	KPC-C20	KPC-C190	KPC-CJ230	ACE-C380	ACE-C320
Image									
Image Sensor	1/3.2" Exmor RS Progressive Scan SONY STARVIS CMOS								
Effective Pixels	1.27MP 1297(H) x 977(V)								
Max. Video Resolution	Horizontal 800TV Lines								
Lens	Type	Varifocal DC Iris lens			Board mount lens			Varifocal DC Iris lens	
	Focal Length	2.8-12mm(2MP), F1.6			3.6mm, F2.0			2.8-12mm(2MP), F1.6	
	Angle of View	109.4-37.8(D)x85.2-30.2(H)x62.6-22.7(V)			94.91 (D)x81.9 (H)x66.5 (V)			109.4-37.8 (D)x85.2-30.2 (H)x62.6-22.7 (V)	
Min.Illumination	KPC-CDI28V12IR: 0Lux(with IR LED on) KPC-CDI28V12: 0.2 Lux (30IRE, F1.6, AGC MAX)		KPC-CDR28V12IR: 0Lux(with IR LED on) KPC-CDR28V12: 0.2 Lux (30IRE, F1.6, AGC MAX)		0.2 Lux (30IRE, F2.0, AGC MAX)				
Gamma	γ=0.45								
IR LEDs	KPC-CDI28V12IR: 24 LEDs(850nm)		KPC-CDR28V12IR: 24 LEDs(850nm)		-				
IR Range	KPC-CDI28V12IR: 20M(66ft.)		KPC-CDR28V12IR: 20M(66ft.)		-				
White Balance	ATW / PUSH / USER1 / USER2 / MANUAL / PUSH LOCK								
Dynamic Range	WDR/BLC	WDR / ATR / OFF							
	D-WDR	OFF / HLC / BLC							
	Level	138.1dB							
Electronic Shutter Speed	AUTO or 1/60(50)-1/100,000		1/60(50)-1/100,000	AUTO or 1/60(50)-1/100,000	1/60(50)-1/100,000		AUTO or 1/60(50)-1/100,000		
Digital Slow Shutter(DSS)	-								
Auto Gain Control(AGC)	MIN, 6, 12, 18, 24, 30, 36, 42, 48, MAX								
Day&Night	KPC-CDI28V12IR: AUTO/MANUAL (Mechanical ICR True D&N) KPC-CDI28V12: AUTO/MANUAL (Electronic D&N)		KPC-CDR28V12IR: AUTO/MANUAL (Mechanical ICR True D&N) KPC-CDR28V12: AUTO/MANUAL (Electronic D&N)		Electronic D&N				
Noise Reduction	2D-DNR (Y/C, Y, C, OFF)								
Motion Detection	-								
Privacy Mask	-								
Image Rotation	OFF, H-FLIP, V-FLIP, HV-FLIP								
Defog	OFF, AUTO								
Sharpness	0-255								
OSD control	JOYSTICK		-	JOYSTICK	-		JOYSTICK	-	
Language	English, Spanish, Portuguese, German, Russian, French		-						
Video Output mode	CVBS(1.0Vp-p Composite 75Ω) NTSC/PAL								
General									
IP Grade	-	IP68	-			IP67 (Waterproof Type)		-	
Operating Temperature	-15°C--50°C(Humidity less than 80%)			-10°C--50°C(Humidity less than 80%)					
Storage Temperature	-20°C--60°C(Humidity less than 80%)								
Dimension(mm)	(Bubble Φ80) Φ107x97.1mm	(Bubble Φ80) Φ133x111.8mm	25x25mm	30x30mm	22.4x23mm	Φ19x54.8mm (Waterproof type)	Φ23x75.25mm (Waterproof type)	38mmx38mm	32mmx32mm
Weight	Approx.255g	Approx.735g	Approx.21.3g	Approx.27.7g	Approx.22.3g	Approx.44.7g (Waterproof type)	Approx.61.8g (Waterproof type)	Approx.6.75g	Approx.4.5g
Power Source	12VDC(±10%)								
Power Consumption	KPC-CDI28V12IR: 12VDC(±10%), 200mA max. KPC-CDI28V12: 12VDC(±10%), 900mA max.		KPC-CDR28V12IR: 12VDC(±10%), 200mA max. KPC-CDR28V12: 12VDC(±10%), 900mA max.		12VDC(±10%), 60mA max.			12VDC(±10%), 80mA max.	12VDC(±10%), 70mA max.
Option									
Power Source	DUAL POWER(24VAC/12VDC)			-					
Power Consumption	KPC-CDI28V12IR: 12VDC(±10%), 240mA max. 24VAC(±10%), 2.8W max.		KPC-CDR28V12IR: 12VDC(±10%), 240mA max. 24VAC(±10%), 2.8W max.		-				
Lens	Board Mount Lens			Pinhole lens			Board Mount Lens, Pinhole lens		

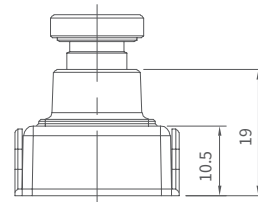
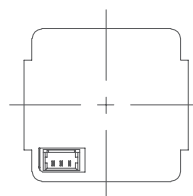
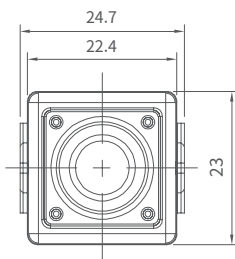
1/KPC-C500



2/KPC-C700



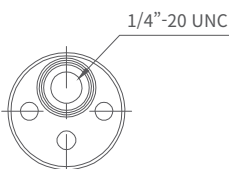
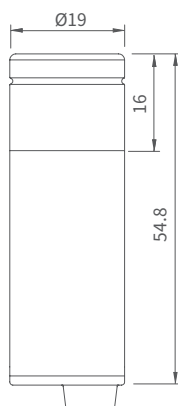
3/KPC-C20



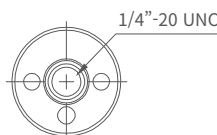
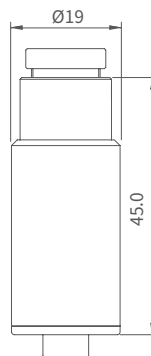
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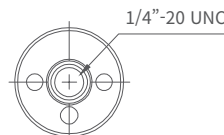
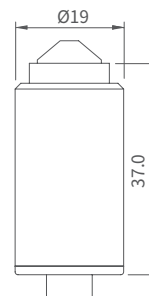
KPC-C190UWX



KPC-C190UB



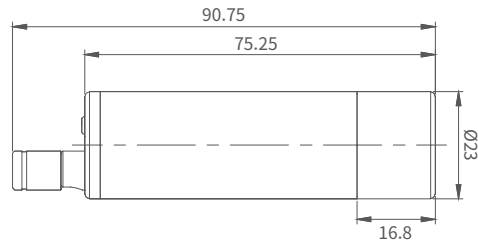
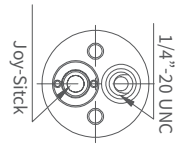
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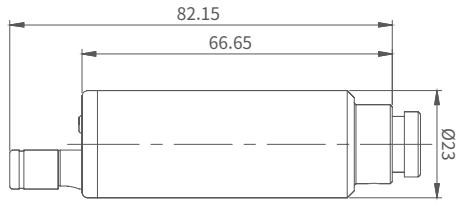
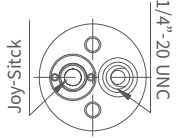
5/ KPC-CJ230



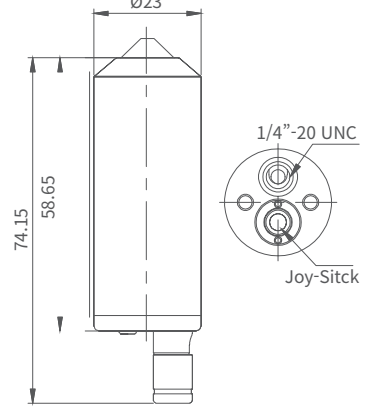
KPC-CJ230UWX



KPC-CJ230UB



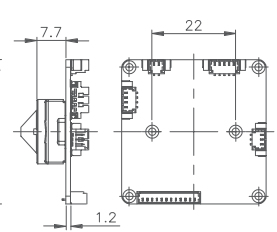
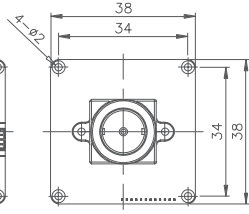
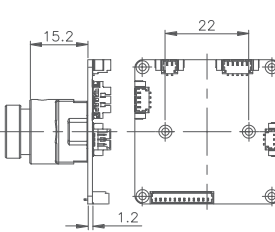
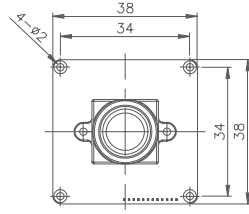
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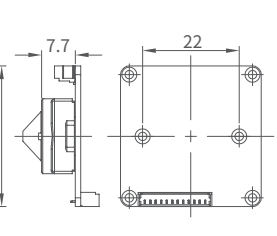
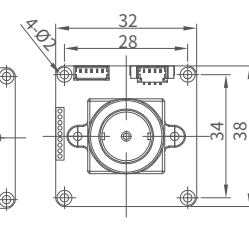
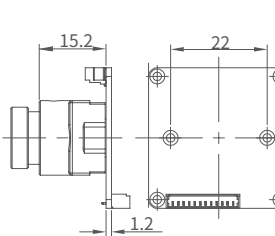
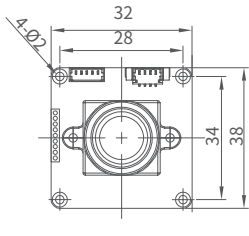
6/ ACE-C380



KPC-CJ230UWX



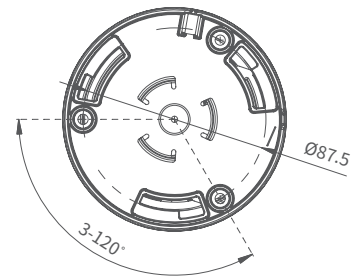
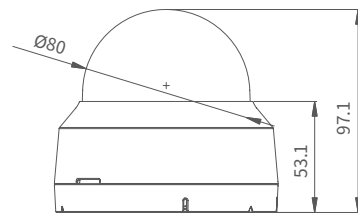
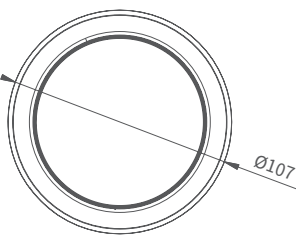
7/ ACE-C320



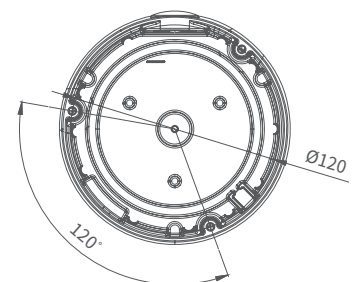
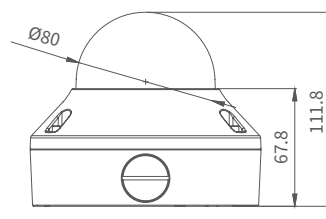
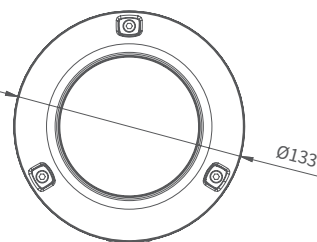
8/ KPC-CDI28V12 / KPC-CDR28V12



KPC-CDI28V12IR / KPC-CDI28V12

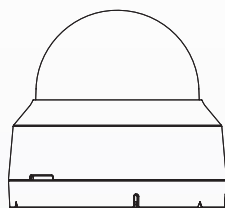


KPC-CDR28V12IR / KPC-CDR28V12



KT&C
Video Surveillance

4 in 1 CAMERA



4 in 1 HD Analogue Camera

4 in 1

1/ Selection Guide

Model Name	KTC-MBN6312 KTC-MBN6412	KTC-MD(N)8012V	KTC-MV(N)8012V	KTC-MN5012V	ATC-TVI381	ATC-TVI321
Image						
Type	Box Camera MBN6312: Long Body MBN6412: Short Body	Indoor Dome	Outdoor Dome	Outdoor Bullet	Camera module	Camera module
Image Sensor	1/2.9" Progressive Scan CMOS					
Max Resolution	1080p(1920x1080)@30(25)fps					
Video Out mode	4in1 Output(AVI, TVI, CVI, CVBS)					
Lens	C/CS Mount	f=2.8~12mm			f=2.8~12mm	f=3.6mm
D&N	True D&N	MD8012V : Color MDN8012V : 24LEDs	MV8012V : Color MVN8012V : 24LEDs	True D&N/20LEDs	True D&N	
IP Rating	N/A		IP68	IP66	N/A	

2/ Main Features

Hybrid Video Output (4 in 1)



Four-in-one camera enables to output a video in various HD analogue transmission methods such as AVI, TVI, CVI and CVBS.

Wide Dynamic Range

Wide dynamic range can represent a greater range of luminance levels than can be achieved with using the more traditional "Back light compensation". This is useful during any real-world scenes containing very bright, direct sunlight to extreme shade, or very faint.



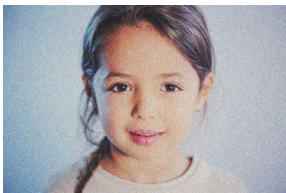
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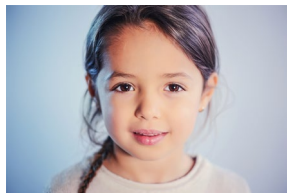
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Noise Reduction

Noise reduction is the process of removing noise from a signal. The HZ78 series cameras are optimized to obtain extremely low-noise image by incorporating 2D/3D-DNR.



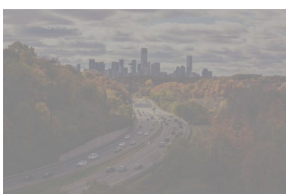
Before Noise Reduction Adjustment



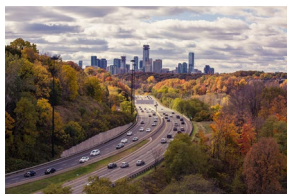
After Noise Reduction Adjustment

Defog

Defog enables clearer images during foggy and low contrast environments.



Defog(OFF)



Defog(ON)

1080p Resolution



1080p is called full high-definition (HD) as a resolution of 1920x1080 (2.1MP) with aspect ratio of 16:9.

Motion Detection

Motion detection is the process of detecting a change in the position of an object relative to its surroundings or a change in the surroundings relative to an object. 4 zones can be specified.



Motion Detection

Image Rotation(E-Flip) and Freeze

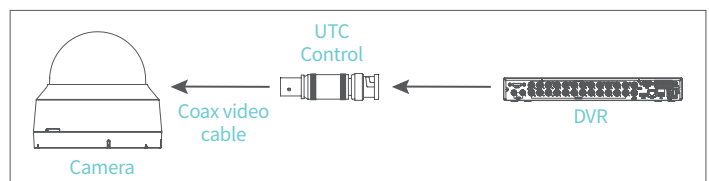
Image Rotation allows the images to be horizontally, vertically, or 180° reverse flipped. The Freeze function stills the image.

Normal Image Horizontal Flip Vertical Flip 180 Reverse Flip



UTC

Adjustable to set camera parameters via Coax without other communication cable.



4 in 1 HD Analogue Camera

4 in 1

1/ Selection Guide

Model Name	KTC-HMS7130-HMB	KTC-MB1902WX	KTC-MS2502B	KTC-MBN6322 KTC-MBN6422	KTC-MD(N)8022V	KTC-MV(N)8022V	KTC-MN5022V	ATC-TE382
Image								
Type	Mini Square	Mini Bullet	Mini Square	Box Camera MBN6322: Long Body MBN6422: Short Body	Indoor Dome	Outdoor Dome	Outdoor bullet	Camera module
Image Sensor	1/2.8" SONY Exmor Progressive Scan CMOS			1/2.8" Progressive Scan STARVIS CMOS				1/2.8" Progressive Scan STARVIS CMOS
Max Resolution	1080p(1920x1080)@30(25)fps							
Video Out mode	6in1 Output(AVI, TVI, CVI, EX-SDI, HD-SDI, CVBS)			4in1 Output(AVI, TVI, CVI, CVBS)				4in1 Output (AVI, TVI, CVI, CVBS)
Lens	f=3.6mm			C/CS Mount	f=2.8-12mm			f=2.8-12mm
D&N	True D&N	Color	Color	True D&N	MD8022V : Color MDN8022V : 24LEDs	MV8022V : Color MVN8022V : 24LEDs	True D&N/20LEDs	True D&N
IP Rating	N/A	IP67		N/A		IP68	IP66	N/A

2/ Main Features

Hybrid Video Output (4 in 1)



Four-in-one camera enables to output a video in various HD analogue transmission methods such as AVI, TVI, CVI and CVBS.

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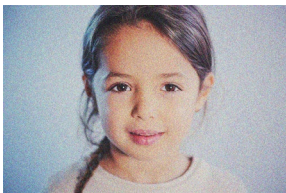
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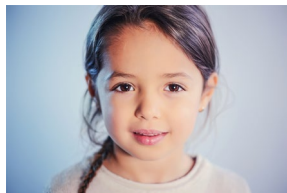
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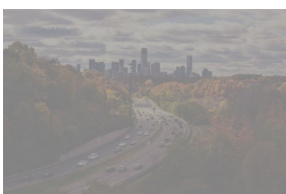
Before Noise Reduction Adjustment



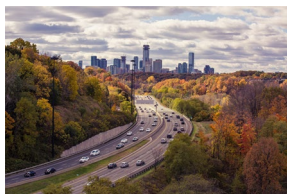
After Noise Reduction Adjustment

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Defog(OFF)



Defog(ON)

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Motion Detection

Image Rotation(E-Flip) and Freeze

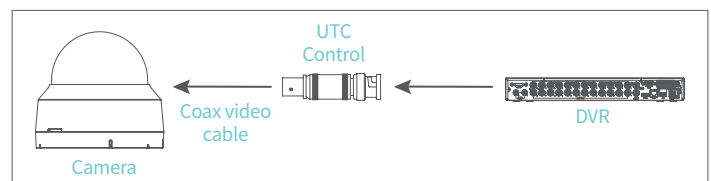
Image Rotation allows the images to be horizontally, vertically, or 180° reverse flipped. The Freeze function stills the image.

Normal Image Horizontal Flip Vertical Flip 180 Reverse Flip



UTC

Adjustable to set camera parameters via Coax without other communication cable.



4 in 1 HD Analogue Camera

4 in 1

Model Name	KTC-MBNG312 KTC-MBNG412	KTC-MD(N)8012V	KTC-MV(N)8012V	KTC-MN5012V	ATC-TV1381	ATC-TV1321	
Image							
Image Sensor	1/2.9" Progressive Scan CMOS						
Effective Pixels	1985(H) x 1105(V)						
Max. Video Resolution	TVI, AVI, CVI : 1080p@30(25)fps/720p@60fps(50fps)/720p@30fps(25fps) TV out: CVBS NTSC/PAL						
Lens	Type	C/CS Mount lens	Varifocal DC Iris lens		Varifocal DC Iris lens	Fixed Board Lens	
	Focal Length	Depend on lens	2.8-12mm(2MP), F 1.6		2.8-12mm(2MP), F 1.6	3.6mm, F 2.0	
	Angle of View	Depend on lens	113 ~38.8(D) x 96.5 ~38.8(H) x52.2 ~19.0(V)		133.4 ~39.7(D) x 110.3 ~34.5(H) x 57.0 ~19.3(V)	133.4 ~39.7(D) x 110.3 ~34.5(H) x 57.0 ~19.3(V)	
Min.Illumination	0.05Lux(F1.2, ICR OFF, AGC33dB, DSS:x2)	KTC-MD8012V : 0.2Lux(F1.6, AGC33dB, DSS:x2) KTC-MDN8012V : 0Lux(with IR LED on)	KTC-MV8012V : 0.2Lux(F1.6, AGC33dB, DSS:x2) KTC-MVN8012V : 0Lux(with IR LED on)	0Lux(with IR LED on)	0.2Lux(F1.6, AGC33dB, DSS:x2)		
IR LEDs	-	KTC-MD8012V : - KTC-MDN8012V : 24 LEDs(850nm)	KTC-MV8012V : - KTC-MVN8012V : 24 LEDs(850nm)	20 LEDs(850nm)	-		
IR Range	-	KTC-MD8012V : - KTC-MDN8012V : 20M(66ft.)	KTC-MV8012V : - KTC-MVN8012V : 20M(66ft.)	30M(98ft.)	-		
White Balance	AUTO/AUTO EXT/PUSH LOCK/MANUAL						
Dynamic Range	WDR/BLC	OFF/BLC/HLC/WDR (4 Zones selectable)					
	D-WDR	OFF/LOW/MIDDLE/HIGH					
	Level	132.6dB					
Electronic Shutter Speed	AUTO/FLICKER/MANUAL(1/30(25)~1/30,000)						
Digital Slow Shutter(DSS)	OFF~ x32						
Auto Gain Control(AGC)	OFF~45dB						
Day&Night	AUTO/COLOR/B&W (Electronic D&N)	KTC-MD8012V : AUTO/COLOR/B&W (Electronic D&N) KTC-MDN8012V : AUTO/COLOR/B&W (Mechanical ICR True D&N)	KTC-MV8012V : AUTO/COLOR/B&W (Electronic D&N) KTC-MVN8012V : AUTO/COLOR/B&W (Mechanical ICR True D&N)	AUTO/COLOR/B&W(Mechanical ICR True D&N)	AUTO/COLOR/B&W (Electronic D&N)		
Noise Reduction	3D-DNR(OFF/LOW/MIDDLE/HIGH)						
Motion Detection	OFF/ON(4 Zones)						
Privacy Mask	16 Zones						
Image Rotation	OFF/H-FLIP/V-FLIP/HV-FLIP						
Defog	OFF/ON(AUTO/MANUAL)						
Sharpness	0-10						
OSD control	Rear OSD button, UTC	JOYSTIC, UTC			UTC		
Language	ENGLISH,Русский, ESPAÑOL, DEUTSCH, FRANCAISE, PORTUGUÉS, 日本語, 한국어						
Video Output mode	AVI, TVI, CVI, CVBS						
General							
IP Grade	-		IP68	IP66	-		
Operating Temperature	-10°C~+50°C		-40°C~+60°C		-10°C~+50°C		
Storage Temperature	-20°C~+60°C						
Dimension(mm)	KTC-MBNG312 : 58X58X110.4mm KTC-MBNG412 : 58X58X70.5mm	(Bubble Φ80) Φ107x97.1	(Bubble Φ80) Φ133x111.8	Φ65x120mm (without bracket/Sunshield)	38x38mm	32x32mm	
Weight	KTC-MBNG312 : Approx.230g KTC-MBNG412 : Approx.180g	KTC-MD8012V : Approx.230g KTC-MDN8012V : Approx.240g	KTC-MV8012V : Approx.705g KTC-MVN8012V : Approx.720g	Approx.700g	Approx.45.6g	Approx.18.9g	
Power Source	12VDC(±10%)						
Power Consumption	Max.140mA@12VDC	KTC-MD8012V : Max.140mA@12VDC KTC-MDN8012V : Max.250mA@12VDC	KTC-MV8012V : Max.140mA@12VDC KTC-MVN8012V : Max.250mA@12VDC	Max.290mA@12VDC	Max.140mA@12VDC		
Option							
Power Source	DUAL POWER (24VAC/12VDC)				-		
Power Consumption	24VAC(±10%), Max.2.7W 12VDC(±10%), Max.190mA	KTC-MD8012V : 24VAC(±10%), Max.1.9W 12VDC(±10%), Max.170mA KTC-MDN8012V : 24VAC(±10%), Max.3.3W 12VDC(±10%), Max.310mA	KTC-MV8012V : 24VAC(±10%), Max.1.9W 12VDC(±10%), Max.170mA KTC-MVN8012V : 24VAC(±10%), Max.3.3W 12VDC(±10%), Max.310mA	24VAC(±10%), Max.4.1W 12VDC(±10%), Max.360mA	-		
Lens	-	KTC-MD8012V : 3.6mm Board	KTC-MV8012V : 3.6mm Board	-			

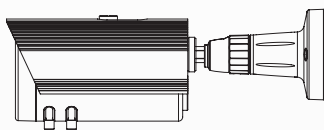
4 in 1 HD Analogue Camera

4 in 1

Model Name	KTC-HMS7130-HMB	KTC-MB1902xx	KTC-MS2502xx	KTC-MBN6322 KTC-MBN6422	KTC-MD(N)8022V	KTC-MV(N)8022V	KTC-MN5022V	ATC-TE382
Image								
Image Sensor	1/2.8" SONY Exmor Progressive Scan CMOS			1/2.8" Progressive Scan STARVIS CMOS				
Effective Pixels	1945(H) x 1097(V)							
Max. Video Resolution	HD-SDI/EX-SDI1.0/EX-SDI2.0/AVI/TVI/CVI: 1080p@30fps (25fps)/720p@60fps(50fps)/720p@30fps(25fps) TV out: CVBS NTSC/PAL			TVI, AVI, CVI : 1080p@30(25)fps/720p@60fps(50fps)/720p@30fps(25fps) TV out: CVBS(720H) NTSC/PAL		TVI, AVI, CVI : 1080p@30(25)fps/720p@60fps(50fps)/720p@30fps(25fps) TV out: CVBS NTSC/PAL		
Lens	Type	Fixed lens		C/CS Mount lens	Varifocal DC Iris lens			
	Focal Length	3.6mm, F 2.0		Depend on lens	2.8-12mm(2MP), F 1.6			
	Angle of View	112.3 (D)x93.7 (H)x49.3 (V)		Depend on lens	117.7 - 40.3 (D)x100.2 - 35.1 (H)x54.1 - 19.7 (V)		141 - 41.2 (D) x115.4 - 35.8 (H) x59.2 - 20.0 (V)	
Min. Illumination	0.2Lux (F2.0, AGC33dB, DSS:x2)		0.03Lux (F1.2, ICR OFF, AGC33dB, DSS:x2)	KTC-MD8022V : 0.1Lux (F1.6, AGC33dB, DSS:x2) KTC-MDN8022V : 0Lux(with IR LED on)	KTC-MV8022V : 0.1Lux (F1.6, AGC33dB, DSS:x2) KTC-MVN8022V : 0Lux(with IR LED on)	0Lux (with IR LED on)	0.1Lux (F1.6, AGC33dB, DSS:x2)	
IR LEDs	-			-	KTC-MD8022V : - KTC-MDN8022V : 24 LEDs(850nm)	KTC-MV8022V : - KTC-MVN8022V : 24 LEDs(850nm)	20 LEDs(850nm)	-
IR Range	-			-	KTC-MD8022V : - KTC-MDN8022V : 20M(66ft.)	KTC-MV8022V : - KTC-MVN8022V : 20M(66ft.)	30M(98ft.)	-
White Balance	AUTO/AUTO EXT/PUSH LOCK/MANUAL							
Dynamic Range	WDR/BLC	OFF/BLC/HLC/WDR15P/WDR30P(4 Zones selectable)						
	D-WDR	OFF/LOW/MIDDLE/HIGH						
	Level	135.6dB						
Electronic Shutter Speed	AUTO/FLICKER/MANUAL/(1/30(25)-1/30,000)							
Digital Slow Shutter(DSS)	OFF~ x32							
Auto Gain Control(AGC)	OFF-45dB							
Day&Night	AUTO/COLOR/B&W (Electronic D&N)				KTC-MD8022V : AUTO/COLOR/B&W (Electronic D&N) KTC-MDN8022V : AUTO/COLOR/B&W (Mechanical ICR True D&N)	KTC-MV8012V : AUTO/COLOR/B&W (Electronic D&N) KTC-MVN8012V : AUTO/COLOR/B&W (Mechanical ICR True D&N)	AUTO/COLOR/B&W (Mechanical ICR True D&N)	AUTO/COLOR/B&W (Electronic D&N)
Noise Reduction	3D-DNR(OFF/LOW/MIDDLE/HIGH)							
Motion Detection	OFF/ON(4 Zones)							
Privacy Mask	16 Zones							
Image Rotation	OFF/H-FLIP/V-FLIP/HV-FLIP							
Defog	OFF/ON(AUTO/MANUAL)							
Sharpness	0-10							
OSD control	Cable JOYSTIC, UTC			Rear OSD button, UTC	JOYSTIC, UTC			UTC
Language	ENGLISH,Русский, ESPAÑOL, DEUTSCH, FRANCAISE, PORTUGUÉS, 日本語, 한국어							
Video Output mode	HD-SDI/EX-SDI1.0/EX-SDI2.0/AVI/CVI/TVI/CVBS		AVI, TVI, CVI, CVBS					
General								
IP Grade	-	IP67	-	-	IP68	IP66	-	
Operating Temperature	-10°C~+50°C				-40°C~+60°C		-10°C~+50°C	
Storage Temperature	-20°C~+60°C							
Dimension(mm)	30mmx30mm	Φ19x53.2mm (Waterproof type)	25x25mm	KTC-MBN6322 : 58x58x110.4mm KTC-MBN6422 : 58x58x70.5mm	(Bubble Φ80) Φ107x97.1	(Bubble Φ80) Φ133x111.8	Φ65x120mm (without bracket/Sunshield)	38x38mm
Weight	Approx.28.9g (Board lens)	Approx.53.5g	Approx.21.5g	KTC-MBN6322 : Approx.230g KTC-MBN6422 : Approx.180g	KTC-MD8022V : Approx.230g KTC-MDN8022V : Approx.240g	KTC-MV8022V : Approx.705g KTC-MVN8022V : Approx.720g	Approx.700g	Approx.46.6g
Power Source	12VDC(±10%)							
Power Consumption	Max.130mA@12VDC	Max.110mA@12VDC	Max.140mA@12VDC	Max.140mA@12VDC	KTC-MD8022V : Max.140mA@12VDC KTC-MDN8022V : Max.250mA@12VDC	KTC-MV8022V : Max.140mA@12VDC KTC-MVN8022V : Max.250mA@12VDC	Max.300mA@12VDC	Max.140mA@12VDC
Option								
Power Source	12VDC(±10%)	-	-	-	DUAL POWER (24VAC/12VDC)			DUAL POWER (24VAC/12VDC)
Power Consumption	-	-	-	24VAC(±10%), Max.2.8W 12VDC(±10%), Max.200mA	KTC-MD8022V : 24VAC(±10%), Max.2.0W 12VDC(±10%), Max.170mA KTC-MDN8022V : 24VAC(±10%), Max.3.5W 12VDC(±10%), Max.310mA	KTC-MV8022V : 24VAC(±10%), Max.2.0W 12VDC(±10%), Max.170mA KTC-MVN8022V : 24VAC(±10%), Max.3.5W 12VDC(±10%), Max.310mA	24VAC(±10%), Max.4.1W 12VDC(±10%), Max.370mA	-
Lens	KTC-HMS7130P4 : 4.3mm Pinhole	KTC-MB1902B : 3.6mm Board KTC-MB1902P4 : 4.3mm Pinhole (Without waterproof housing)	KTC-MS2502P4 : 4.3mm Pinhole	-	KTC-MD8022B : 3.6mm Borad	KTC-MV8022B : 3.6mm Borad	-	-

KT&C
Video Surveillance

HD-SDI/EX-SDI CAMERA



1/ Selection Guide

Model Name	KTC-MEBN6312 KTC-MEBN6412	KTC-ED(N)82V	KTC-EV(N)82V	KTC-EN502V	KTC-MEBN6322 KTC-MEBN6422
Image					
Type	Box Camera MEBN6312: Long Body MEBN6412: Short Body	Indoor Dome	Outdoor Dome	Outdoor Bullet	Box Camera MEBN6322: Long Body MEBN6422: Short Body
Image Sensor	1/2.9" Progressive Scan CMOS				1/2.8" Progressive Scan STARVIS CMOS
Max Resolution	1080p(1920x1080)@30(25)fps				
Video Out mode	HD-SDI, EX-SDI1.0&2.0, CVBS				
Lens	C/CS Mount	f=2.8~12mm		f=2.8~12mm	C/CS Mount
D&N	True D&N	ED82V : Color EDN82V : 24LEDs	EV82V : Color EVN82V : 24LEDs	True D&N/20LEDs	Auto ICR
IP Grade	N/A		IP68	IP66	N/A

2/ Main Features

Hybrid Video Output



EX-SDI (Extended Serial Digital Interface) is a HD-SDI, which ensures full HD-signal transmission over 300M without any video transmission loss.

Wide Dynamic Range

Wide dynamic range can represent a greater range of luminance levels than can be achieved with using the more traditional "Back light compensation". This is useful during any real-world scenes containing very bright, direct sunlight to extreme shade, or very faint.



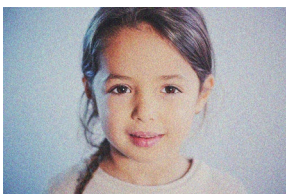
WDR OFF



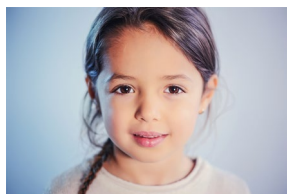
WDR ON

Noise Reduction

Noise reduction is the process of removing noise from a signal. The HZ78 series cameras are optimized to obtain extremely low-noise image by incorporating 2D/3D-DNR.



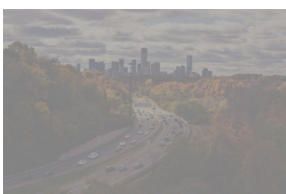
Before Noise Reduction Adjustment



After Noise Reduction Adjustment

Defog

Defog enables clearer images during foggy and low contrast environments.



Defog(OFF)



Defog(ON)

1080p Resolution



1080p is called full high-definition (HD) as a resolution of 1920x1080 (2.1MP) with aspect ratio of 16:9.

Motion Detection

Motion detection is the process of detecting a change in the position of an object relative to its surroundings or a change in the surroundings relative to an object. 4 zones can be specified.



Motion Detection

Image Rotation(E-Flip) and Freeze

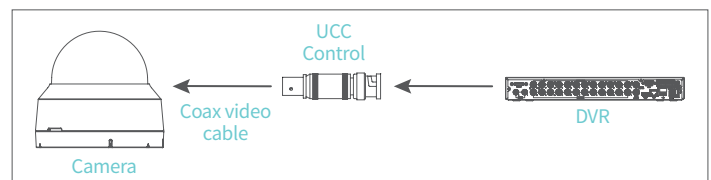
Image Rotation allows the images to be horizontally, vertically, or 180° reverse flipped. The Freeze function stills the image.

Normal Image Horizontal Flip Vertical Flip 180 Reverse Flip



UCC

Adjustable to set camera parameters via Coax without other communication cable.



1/ Selection Guide

Model Name	KTC-ED(N)8022V	KTC-EV(N)8022V	KTC-EN5022V	KTC-HMB7823-HWX	KTC-HMB7865-H	KTC-HMS8130-EB
Image						
Type	Indoor Dome	Outdoor Dome	Outdoor Bullet	Mini Bullet		Mini Square
Image Sensor	1/2.8" Progressive Scan STARVIS CMOS			1/2.8" SONY Exmor Progressive Scan CMOS		
Max Resolution	1080p(1920x1080)@30(25)fps			1080p(1920x1080)@30(25)fps		
Video Out mode	HD-SDI, EX-SDI1.0&2.0, CVBS			HD-SDI/EX-SDI1.0/CVBS		HD-SDI/EX-SDI1.0&2.0&2.1/CVBS
Lens	f=2.8~12mm			f=3.6mm	N/A	f=3.6mm
D&N	ED8022V : Color EDN8022V : 24LEDs	EV8022V : Color EVN8022V : 24LEDs	True D&N/20LEDs	True D&N		
IP Grade	N/A	IP68	IP66	IP67	N/A	

2/ Main Features

Hybrid Video Output



EX-SDI (Extended Serial Digital Interface) is a HD-SDI, which ensures full HD-signal transmission over 300M without any video transmission loss.

Wide Dynamic Range

Wide dynamic range can represent a greater range of luminance levels than can be achieved with using the more traditional "Back light compensation". This is useful during any real-world scenes containing very bright, direct sunlight to extreme shade, or very faint.



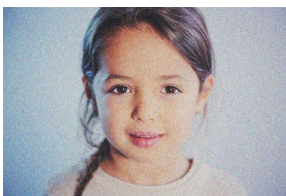
WDR OFF



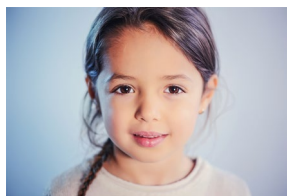
WDR ON

Noise Reduction

Noise reduction is the process of removing noise from a signal. The HZ78 series cameras are optimized to obtain extremely low-noise image by incorporating 2D/3D-DNR.



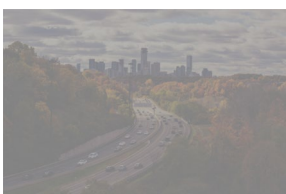
Before Noise Reduction Adjustment



After Noise Reduction Adjustment

Defog

Defog enables clearer images during foggy and low contrast environments.



Defog(OFF)



Defog(ON)

1080p Resolution



1080p is called full high-definition (HD) as a resolution of 1920x1080 (2.1MP) with aspect ratio of 16:9.

Motion Detection

Motion detection is the process of detecting a change in the position of an object relative to its surroundings or a change in the surroundings relative to an object. 4 zones can be specified.



Motion Detection

Image Rotation(E-Flip) and Freeze

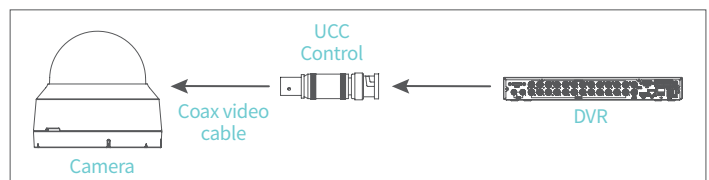
Image Rotation allows the images to be horizontally, vertically, or 180° reverse flipped. The Freeze function stills the image.






Normal Image Horizontal Flip Vertical Flip 180 Reverse Flip



UCC

Adjustable to set camera parameters via Coax without other communication cable.



Model Name	KTC-MEBN6312 KTC-MEBN6412	KTC-ED(N)82V	KTC-EV(N)82V	KTC-EN502V	KTC-MEBN6322 KTC-MEBN6422
Image					
Image Sensor	1/2.9" Progressive Scan STARVIS CMOS				1/2.8" Progressive Scan CMOS
Effective Pixels	1985(H) x 1105(V)				1945(H) x 1097(V)
Max. Video Resolution	HD-SDI/EX-SDI1.0/EX-SDI2.0/TVI/ AVI/ CVI: 1080p@30fps(25fps)/ 720p@60fps(50fps) 720p@30fps(25fps) TV out: CVBS NTSC/PAL	HD-SDI/EX-SDI1.0/EX-SDI2.0: 1080p@30fps(25fps)/720p@60fps(50fps) TV out: CVBS NTSC/PAL			HD-SDI/EX-SDI1.0/EX-SDI2.0/AVI/TVI/CVI: 1080p@30fps(25fps)/ 720p@60fps(50fps)/ 720p@30fps(25fps) TV out: CVBS NTSC/PAL
Lens	Type	Varifocal DC Iris lens		Varifocal DC Iris lens	C/CS Mount lens
	Focal Length	Depend on lens		2.8~12mm(2MP), F 1.6	Depend on lens
	Angle of View	Depend on lens		113 ~38.8 (D)x96.5 ~38.8 (H)x52.2 ~19.0 (V)	133.4 ~39.7 (D)x110.3 ~34.5 (H)x57.0 ~19.3 (V)
Min. Illumination	0.05Lux (F1.2, ICR OFF, AGC33dB, DSSx2)	KTC-ED82V : 0.2Lux(F1.6, AGC33dB, DSSx2) KTC-EDN82V : 0Lux(with IR LED on)	KTC-EV82V : 0.2Lux(F1.6, AGC33dB, DSSx2) KTC-EVN82V : 0Lux(with IR LED on)	0Lux(with IR LED on)	0.03Lux (F1.2, ICR OFF, AGC33dB, DSSx2)
IR LEDs	-	KTC-ED82V : - KTC-EDN82V : 24 LEDs(850nm)	KTC-EV82V : - KTC-EVN82V : 24 LEDs(850nm)	20 LEDs(850nm)	-
IR Range	-	KTC-ED82V : - KTC-EDN82V : 20M(66ft.)	KTC-EV82V : - KTC-EVN82V : 20M(66ft.)	30M(98ft.)	-
White Balance	AUTO/AUTO EXT/PUSH LOCK/MANUAL				
Dynamic Range	WDR/BLC	OFF/BLC/HLC/WDR (4 Zones selectable)	OFF/BLC/HLC/WDR		OFF/BLC/HLC/WDR15P/WDR30P(4 Zones selectable)
	D-WDR	OFF/LOW/MIDDLE/HIGH			
	Level	132.6dB			135.6dB
Electronic Shutter Speed	AUTO/FLICKER/MANUAL/(1/30(25)~1/30,000)				
Digital Slow Shutter(DSS)	OFF~ x32				
Auto Gain Control(AGC)	OFF~45dB				
Day&Night	AUTO/COLOR/B&W (Mechanical ICR True D&N)	KTC-ED8012V : AUTO/COLOR/B&W (Electronic D&N) KTC-EDN8012V : AUTO/COLOR/B&W (Mechanical ICR True D&N)	KTC-EV8012V : AUTO/COLOR/B&W (Electronic D&N) KTC-EVN8012V : AUTO/COLOR/B&W (Mechanical ICR True D&N)	AUTO/COLOR/B&W (Mechanical ICR True D&N)	AUTO/COLOR/B&W (Electronic D&N)
Noise Reduction	3D-DNR(OFF/LOW/MIDDLE/HIGH)				
Motion Detection	OFF/ON(4 Zones)				
Privacy Mask	16 Zones				
Image Rotation	OFF/H-FLIP/V-FLIP/HV-FLIP				
Defog	OFF/ON(AUTO/MANUAL)				
Sharpness	0-10				
OSD control	Rear OSD button, UTC (TVI/AVI/CVI)	JOYSTIC			Rear OSD button, UTC, UCC (HD-SDI / EX-SDI 2.0)
Language	ENGLISH,Русский, ESPAÑOL, DEUTSCH, FRANCAISE, PORTUGUÉS, 日本語, 한국어				
Video Output mode	HD-SDI/EX-SDI1.0/EX-SDI2.0/TVI/AVI/ CVI/CVBS	HD-SDI/EX-SDI1.0/EX-SDI2.0/CVBS			HD-SDI/EX-SDI1.0/EX-SDI2.0/AVI/CVI/ TVI/CVBS
General					
IP Grade	-		IP68	IP66	-
Operating Temperature	-10°C~+50°C		-40°C~+60°C		-10°C~+50°C
Storage Temperature	-20°C~+60°C		-20°C~+60°C		-20°C~+60°C
Dimension(mm)	KTC-MBN6312 : 58X58X110.4mm KTC-MBN6412 : 58X58X70.5mm	(Bubble Ø80) Φ107x97.1	(Bubble Ø80) Φ133x111.8	Φ65x120mm(without bracket/Sunshield)	KTC-MEBN6322 : 58X58X110.4mm KTC-MEBN6422 : 58X58X70.5mm
Weight	KTC-MBN6312 : Approx.230g KTC-MBN6412 : Approx.180g	KTC-ED8012V : Approx.230g KTC-EDN8012V : Approx.240g	KTC-EV8012V : Approx.705g KTC-EVN8012V : Approx.720g	Approx.700g	KTC-MEBN6322 : Approx.230g KTC-MEBN6422 : Approx.180g
Power Source	12VDC(±10%)				
Power Consumption	Max.140mA@12VDC	KTC-ED8012V : Max.140mA@12VDC KTC-EDN8012V : Max.250mA@12VDC	KTC-EV8012V : Max.140mA@12VDC KTC-EVN8012V : Max.250mA@12VDC	Max.290mA@12VDC	Max.130mA@12VDC
Option					
Power Source	DUAL POWER (24VAC/12VDC)			DUAL POWER (24VAC/12VDC)	DUAL POWER (24VAC/12VDC)
Power Consumption	24VAC(±10%), Max.2.7W 12VDC(±10%), Max.190mA	KTC-ED8012V : 24VAC(±10%), Max.1.9W 12VDC(±10%), Max.170mA KTC-EDN8012V : 24VAC(±10%), Max.3.3W 12VDC(±10%), Max.310mA	KTC-MV8012V : 24VAC(±10%), Max.1.9W 12VDC(±10%), Max.170mA KTC-MVN8012V : 24VAC(±10%), Max.3.3W 12VDC(±10%), Max.310mA	24VAC(±10%), Max.4.2W 12VDC(±10%), Max.350mA	24VAC(±10%), Max.2.8W 12VDC(±10%), Max.190mA
Lens	-		KTC-ED8012B : 3.6mm Board	KTC-EV8012B : 3.6mm Board	-

Model Name	KTC-ED(N)8022V	KTC-EV(N)8022V	KTC-EN5022V	KTC-HMB7823-HWX	KTC-HMB7865-H	KTC-HMS8130-EB
Image						
Image Sensor	1/2.8" Progressive Scan STARVIS CMOS			1/2.8" SONY Exmor Progressive Scan CMOS		
Effective Pixels	1945(H) x 1097(V)			1945(H) x 1097(V)		
Max. Video Resolution	HD-SDI/EX-SDI1.0/EX-SDI2.0: 1080p@30fps(25fps)/720p@60fps(50fps)/720p@30fps(25fps) TV out: CVBS NTSC/PAL			HD-SDI/EX-SDI1.0: 1080p@30fps(25fps)/720p@60fps(50fps)/720p@30fps(25fps) TV out: CVBS NTSC/PAL	HD-SDI/EX-SDI1.0: 1080p@30fps(25fps)/720p@60fps(50fps)/720p@30fps(25fps) TV out: CVBS NTSC/PAL	HD-SDI/EX-SDI1.0&2.0&2.1: 1080p@30fps(25fps)/720p@60fps(50fps)/720p@30fps(25fps) TV out: CVBS NTSC/PAL (720H)
Lens	Type Varifocal DC Iris lens			Fixed lens	C / CS Mount	Fixed lens
	Focal Length 2.8-12mm(2MP), F 1.6			3.6mm, F 2.0	-	3.6mm, F 2.0
	Angle of View 117.7~40.3 (D)x100.2~35.1 (H)x54.1~19.7 (V)		141~41.2 (D)x115.4~35.8 (H)x59.2~20.0 (V)	112.3 (D)x93.7 (H)x49.3 (V)	-	112.3 (D)x93.7 (H)x49.3 (V)
Min.Illumination	KTC-ED8022V : 0.1Lux(Fl1.6, AGC33dB, DSS:x2) KTC-ED8022V : 0Lux(with IR LED on)	KTC-EV8022V : 0.1Lux(Fl1.6, AGC33dB, DSS:x2) KTC-EV8022V : 0Lux(with IR LED on)	0Lux(with IR LED on)	0.1Lux(F2.0, AGC20dB, DSS:x2)		0.2Lux(F2.0, AGC33dB, DSS:x2)
IR LEDs	KTC-ED8022V : - KTC-EDN8022V : 24 LEDs(850nm)	KTC-EV8022V : - KTC-EVN8022V : 24 LEDs(850nm)	20 LEDs(850nm)	-		-
IR Range	KTC-ED8022V : - KTC-EDN8022V : 20M(66ft.)	KTC-EV8022V : - KTC-EVN8022V : 20M(66ft.)	30M(98ft.)	-		-
White Balance	AUTO/AUTO EXT/PUSH LOCK/MANUAL			AUTO/PUSH LOCK/MANUAL		AUTO/AUTO EXT/PUSH LOCK/MANUAL
Dynamic Range	WDR/BLC OFF/BLC/HLC/WDR15P/WDR30P(4 Zones selectable)			OFF/BLC/HLC	OFF/BLC/HLC/WDR	
	D-WDR OFF/LOW/MIDDLE/HIGH			-	Off/Low/Middle/High	Off/On
	Level 135.6dB			-	135.6dB	
Electronic Shutter Speed	AUTO/FLICKER/MANUAL/(1/30(25)-1/30,000)					
Digital Slow Shutter(DSS)	OFF~ x32					
Auto Gain Control(AGC)	OFF~45dB			OFF~42dB		
Day&Night	KTC-ED8022V : AUTO/COLOR/B&W (Electronic D&N) KTC-EDN8022V : AUTO/COLOR/B&W (Mechanical ICR True D&N)	KTC-EV8022V : AUTO/COLOR/B&W (Electronic D&N) KTC-EVN8022V : AUTO/COLOR/B&W (Mechanical ICR True D&N)	AUTO/COLOR/B&W (Mechanical ICR True D&N)	AUTO/COLOR/B&W (Electronic D&N)		
Noise Reduction	3D-DNR(OFF/LOW/MIDDLE/HIGH)					
Motion Detection	OFF/ON(4 Zones)					
Privacy Mask	16 Zones					
Image Rotation	OFF/H-FLIP/V-FLIP/HV-FLIP					
Defog	OFF/ON(AUTO/MANUAL)					
Sharpness	0~10			Adjustable(0~10)		
OSD control	JOYSTIC, UCC (HD-SDI / EX-SDI 2.0)			JOYSTICK,RS-485 Control	JOYSTICK	Cable JOYSTIC, RS-485 Control (Option)
Language	ENGLISH,Русский, ESPAÑOL, DEUTSCH, FRANCAISE, PORTUGUÉS, 日本語, 한국어			English,Chinese,Chinese(s),Japanese		English / Japanese / Russian / Spanish / German / France / Portuguese / Korean
Video Output mode	HD-SDI/EX-SDI1.0/EX-SDI2.0/CVBS			HD-SDI/EX-SDI1.0/CVBS		HD-SDI/EX-SDI1.0/EX-SDI2.0/EX-SDI2.1/CVBS
General						
IP Grade	-	IP68	IP66	IP67 (WaterProof Cap Housing only)	-	
Operating Temperature	-10°C~+50°C	-40°C~+60°C	-10°C~+50°C			
Storage Temperature	-20°C~+60°C					
Dimension(mm)	(Bubble Ø80) Ø107x97.1	(Bubble Ø80) Ø133x111.8	Ø65x120mm(without bracket/Sunshield)	23.0(Ø) x 77.5 (WaterProof Cap Housing only)	30.5(W) x 30.5(H) x 55(D)	30X30mm
Weight	KTC-ED8022V : Approx.230g KTC-EDN8022V : Approx.240g	KTC-EV8022V : Approx.705g KTC-EVN8022V : Approx.720g	Approx.700g	Approx. 90g	Approx.113 g	Approx.28.9g (Board lens)
Power Source	12VDC(±10%)					
Power Consumption	KTC-ED8022V : Max.140mA@12VDC KTC-EDN8022V : Max.250mA@12VDC	KTC-EV8022V : Max.140mA@12VDC KTC-EVN8022V : Max.250mA@12VDC	Max.300mA@12VDC	Max.190mA@12VDC	Max.230mA@12VDC	Max.150mA@12VDC
Option						
Power Source	DUAL POWER(24VAC/12VDC)					
Power Consumption	KTC-ED8022V : 24VAC(±10%), Max.2.0W 12VDC(±10%), Max.170mA KTC-EDN8022V : 24VAC(±10%), Max.3.5W 12VDC(±10%), Max.310mA	KTC-EV8022V : 24VAC(±10%), Max.2.0W 12VDC(±10%), Max.170mA KTC-EVN8022V : 24VAC(±10%), Max.3.5W 12VDC(±10%), Max.310mA	24VAC(±10%), Max.4.3W 12VDC(±10%), Max.380mA			
Lens	KTC-ED8022B : 3.6mm Borad	KTC-EV8022B : 3.6mm Borad	-	KTC-HMB7823P4 : 4.3mm Pinhole	-	KTC-HMS8130P4 : 4.3mm Pinhole

Dimension

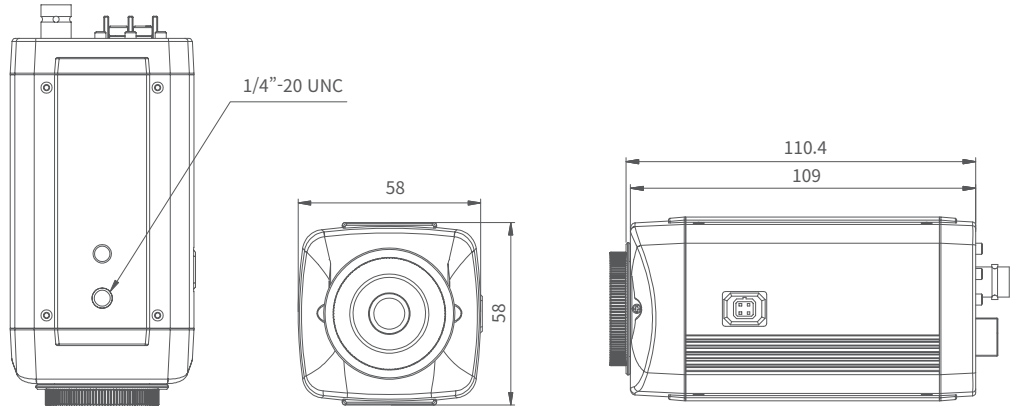
Unit(mm)

4 in 1 /EX-SDI

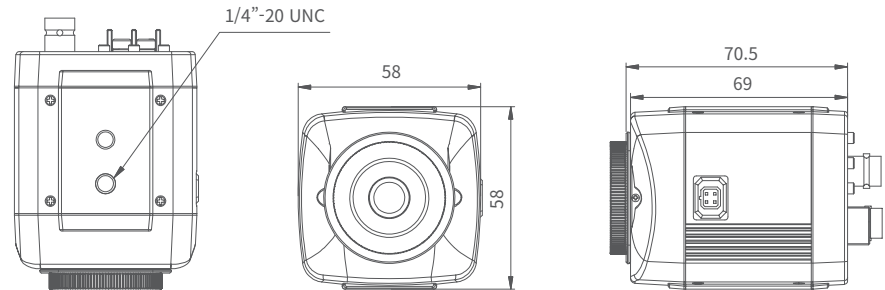
1/ KTC-MBN6312 / KTCMBN6412



KTC-MBN6312 / KTC-MBN6422
KTC-MBEN6312 / KTC-MBEN6422



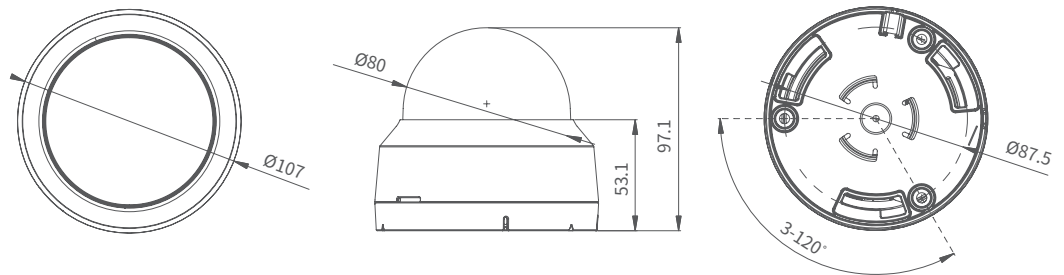
KTC-MBN6412 / KTC-MBN6422
KTC-MBEN6412 / KTC-MBEN6422



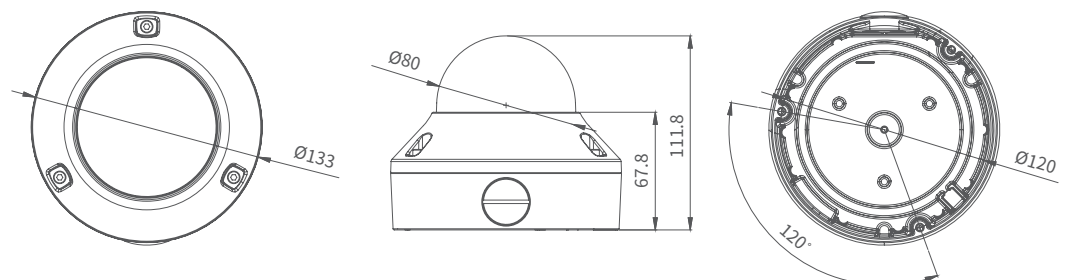
2/ KTC-MD(N)8012 / KTC-MV(N)8012



KTC-MD(N)8012V / KTC-MD(N)8022V
KTC-ED(N)82V / KTC-ED(N)8022V



KTC-MD(N)8012V / KTC-MD(N)8022V
KTC-ED(N)82V / KTC-ED(N)8022V



Dimension

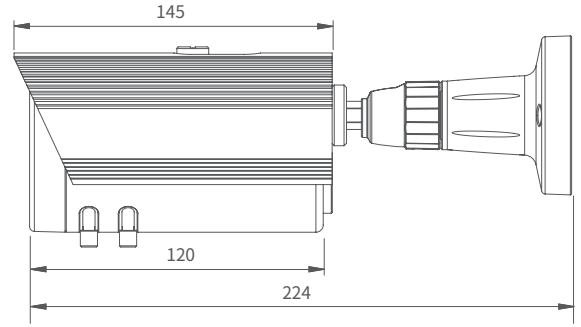
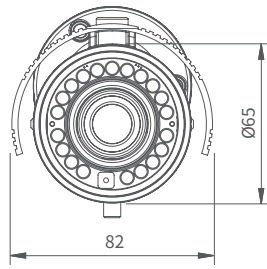
Unit(mm)

4 in 1 /EX-SDI

3/ KTC-EN502



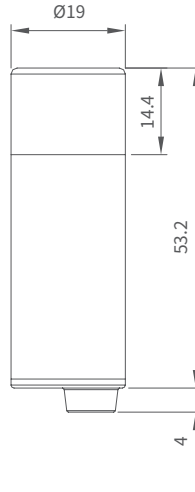
KTC-MN5012
KTC-MN5022



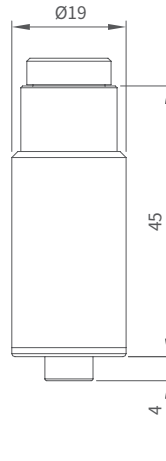
4/ KTC-MB1902xx



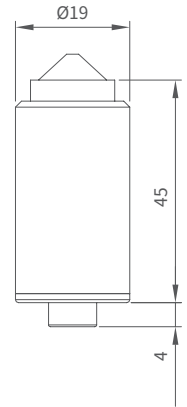
KTC-MB1902WX



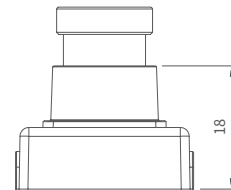
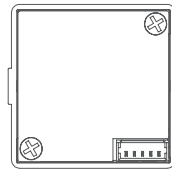
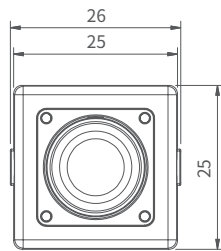
KTC-MB1902B



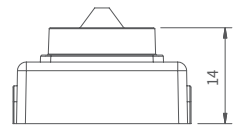
KTC-MB1902P4



5/ KTC-MS2502xx

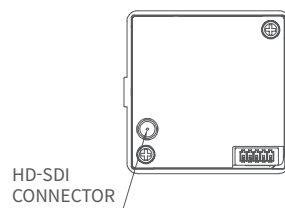
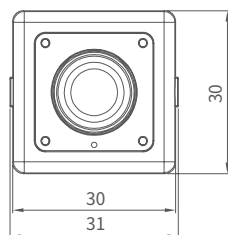


Board Lens

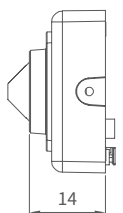
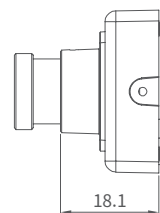


Pinhole Lens(P4)

6/ KTC-HMS7130xx



HD-SDI CONNECTOR



Dimension

Unit(mm)

4 in 1 /EX-SDI

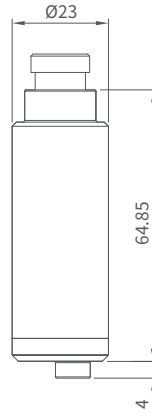
7/ KTC-HMB7823-HWX



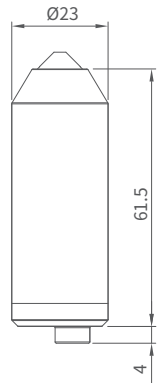
KTC-MB1902WX



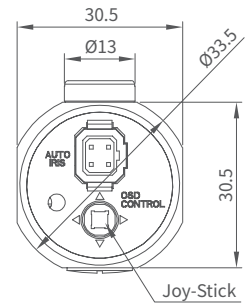
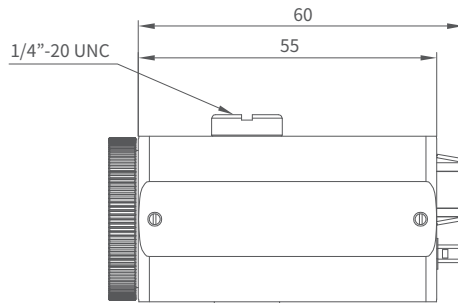
KTC-MB1902B



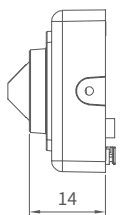
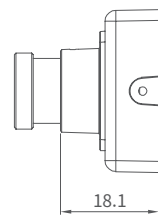
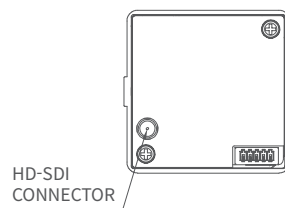
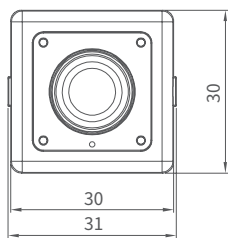
KTC-MB1902P4



8/ KTC-HMB7865-H



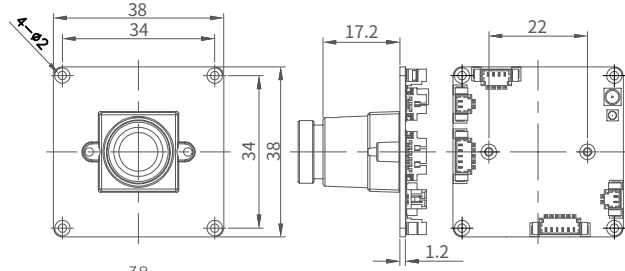
9/ KTC-HMS8130-EB



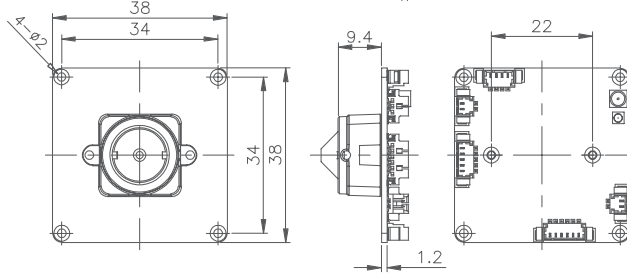
10 / ATC-TVI381



ATC-TVI381B



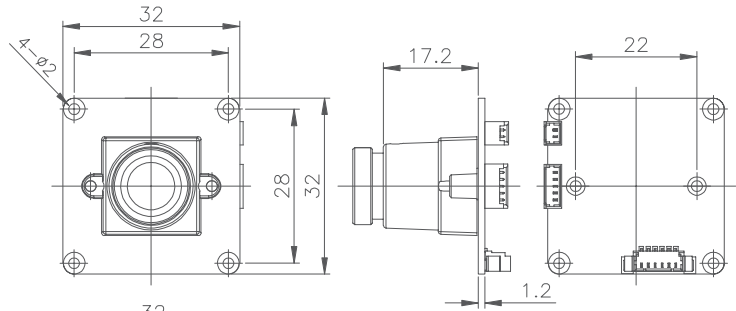
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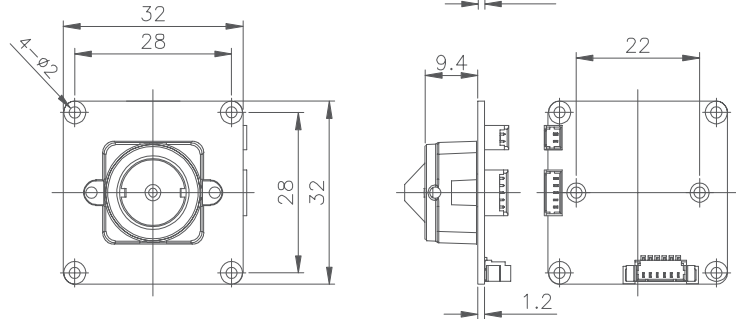
11 / ATC-TVI321



ATC-TVI321B



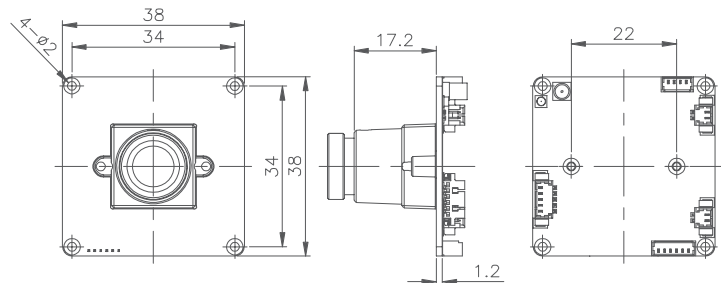
ATC-TVI321P4



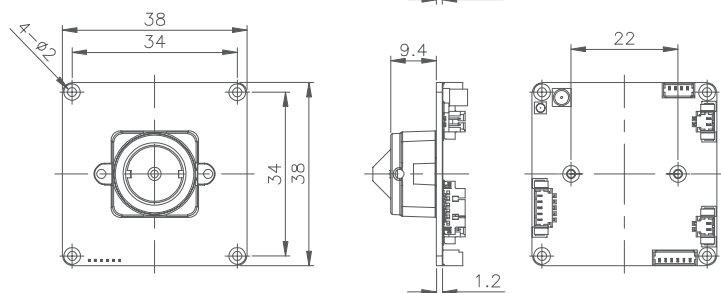
12 / ATC-TE382



ATC-TE382B

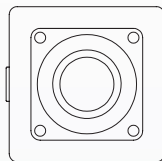


ATC-TE382P4



KT&C Video Surveillance

IP CAMERA



1/ Selection Guide

Model Name	KNC-HDi47B	KNC-HDBi230WX	KNC-HMS1847-iB	KNC-HMB1823-iWX	KNC-HMS6330-iB	KNC-HMB6319-iWX	ACE-HMS6332-iB	ACE-HEN6338-iL	ACE-HENS342-iL	
Image										
Type	Mini Square	Mini Bullet	Mini Square	Mini Bullet	Mini Square	Mini Bullet	Camera module	Camera module	Camera module	
Image Sensor	1/2.9" Progressive Scan SONY Exmor : CMOS		1/2.8" Progressive Scan			CMOS STARVIS		-		
Feature	<ul style="list-style-type: none"> H.264 Main Profiles Fixed lens 3.6mm Electronic Day&Night 3D DNR, DSS, BLC, DWDR Internal Mic / Micro-SD up to 32GB 		<ul style="list-style-type: none"> H.265 Main/H.264 High/Main/Base Profiles Fixed lens 3.6mm Electronic Day&Night 3D DNR, DSS, BLC, DOL-WDR Internal Mic / Micro-SD up to 256GB 			<ul style="list-style-type: none"> Fast boot up based on RTOS H.264 Main/Base Profiles Fixed lens 3.6mm Electronic Day&Night 3D DNR, DSS, BLC, WDR 		<ul style="list-style-type: none"> Fast boot up based on RTOS H.264 Main/Base Profiles LVDS to IP Encoder Module 		<ul style="list-style-type: none"> Fast boot up based on RTOS H.264 Main/Base Profiles LVDS to IP Encoder Module
Ethernet	Ethernet 10/100 Base-T LAN									
Power Consumption	DC12V/PoE(IEEE802.3af)									

2/ Main Features

• Wide Dynamic Range

Wide dynamic range can represent a greater range of luminance levels than can be achieved with using the more traditional "Back light compensation". This is useful during any real-world scenes containing very bright, direct sunlight to extreme shade, or very faint.



WDR OFF



WDR ON

• Noise Reduction

Noise reduction is the process of removing noise from a signal. The HZ78 series cameras are optimized to obtain extremely low-noise image by incorporating 2D/3D-DNR.



Before Noise Reduction Adjustment



After Noise Reduction Adjustment

• Motion Detection

Motion detection is the process of detecting a change in the position of an object relative to its surroundings or a change in the surroundings relative to an object.

4 zones can be specified.












Motion Detection



• 1080p Resolution

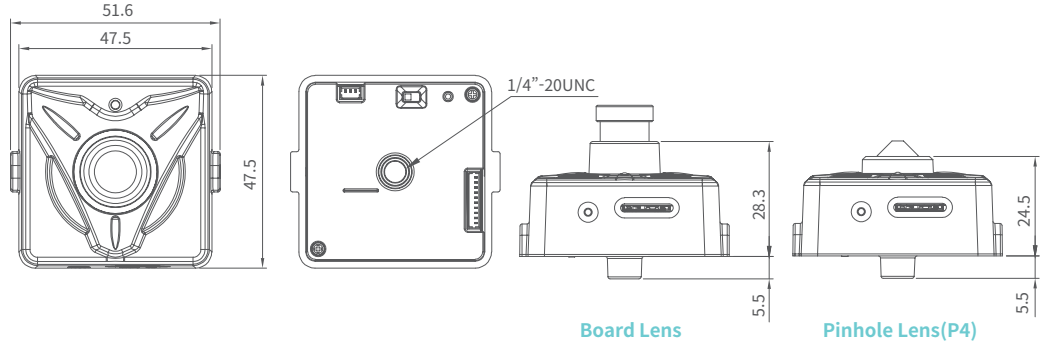
1080p is called full high-definition (HD) as a resolution of 1920x1080 (2.1MP) with aspect ratio of 16:9.

Model Name	KNC-HDI47B	KNC-HDBI230WX	KNC-HMS1847-IB	KNC-HMB1823-IXW	KNC-HMS6330-IB	KNC-HMB6319-IXW	ACE-HMS6332-IB	ACE-HEN6338-IL	ACE-HENS342-IL		
Image											
Image Sensor	1/2.9" Progressive Scan SONY Exmor : CMOS			1/2.8" Progressive Scan SONY STARVIS : CMOS					-		
Effective Pixels	1936(H) x 1097(V)			1945(H) x 1097(V)					-		
Scanning	Progressive scan										
Min.Illumination	0.2Lux(F2.5, DSS Off) / 0.05Lux(DSS On)			0.05Lux(F2.5, DSS Off) / 0.01Lux(DSS On)					-		
S/N ratio	≤50dB										
Video Output	Network	Network									
	Analog	CVBS								CVBS	
Lens	Type	Fixed lens									
	Focal Length	3.6mm, F 2.0									
Functions											
White Balance	Auto, Hold, Incandescent, D4000, D5000, Sunny, Cloudy, Flash, Under Water				Auto, 3000K, 5000K, 8000K						
Dynamic Range	Method	BLC Available / DWDR			DOL-WDR			Double Shutter WDR		-	
	Level(dB)	1~5 / Low, Mid, High			>120dB (N/A)			116dB (Estimated)		-	
Electronic Shutter Speed	1/25(30)~1/8,000			1/2~1/20,000			1/25(30)~1/30,000		-		
Auto Gain Control(AGC)	OFF~45dB			OFF~50dB (N/A)			Off~69dB		-		
Day&Night	AUTO/COLOR/B&W (Electronic D&N)										
Digital Slow Shutter(DSS)	OFF~ x32			OFF~ x32 (N/A)			OFF~ x32		-		
Noise Reduction	3D DNR			2D, 3D DNR					-		
Motion Detection	5 Zones		20x15 Motion Block (upto 60x60)			60x34 Motion Block, upto 4 Zones					
Privacy Masking Zone	5 Zones		4 Zones			16 Zones					
Image Rotation	-		90°, 180°, 270° (Corridor View)			-					
Lens Distortion Correction (LDC)	-		Offset(-75,+75), Ratio [0,400]			-					
Image Stabilization(DIS)	-		DIS On/Off			-					
Defog	-		Anti-Fog			-					
Alarm	Alarm In/Out	-		1CH sensor in / 1CH out		-		1Ch Out	1CH sensor in / 1CH out		
	Alarm Triggers	-		Motion, Network Disconnection, SD card error, Text in			Motion		Sensor, Motion		
	Alarm Events	FTP, E-mail Notification, SD recording, External alarm output			FTP, E-mail Notification, SD recording		Network		FTP, E-mail Notification		
Network											
Ethernet	10/100 Base-T LAN				10/100 Base-T Ethernet				10/100 Base-T LAN		
Video Compression Format	H.264 Main Profile, MJPEG		H.265 Main Profile, H.264 BP/MP/HP, MJPEG			H.264 Baseline, Main Profile, MJPEG			H.264 High Profile, MJPEG		
Video Resolution	1920x1080, 1280x720, 720x480, 320x240		1920x1080, 1280x720, 640x480			1920x1080, 1280x720, 800x600, 704x480, 704x400, 640x480, 640x360, 320x240			1920x1080, 1280x720, 720x480, 704x480, 640x480, 640x360, 320x240		
Max. Frame Rate	H.264: 30(25)fps at all resolutions MJPEG: 30(25)fps at all resolutions		First: 1080p 30(25)fps (H.265, H.264, MJPEG) / Second: 720p 30(25)fps (H.265, H.264, MJPEG) / Third: VGA 30(25)fps (MJPEG)			First: 1080p 30(25)fps (H.264) / Second : 640x360 30(25)fps (H.264) / Third : 1080p 30(25)fps (MJPEG)			First: 1080p 30(25)fps (H.264, MJPEG) Second: 720x480 30(25)fps (H.264, MJPEG) Third: 320x240 30(25)fps (H.264, MJPEG)		
Streaming Capability	Multiple Streaming(Upto to 3 Profiles)										
Streaming Method	Unicast			Unicast, Multicast			Unicast		Unicast, Multicast		
Bitrate Control	H.264: CBR or VBR, MJPEG: VBR		H.265, H.264 : CBR, VBR, AVBR MJPEG: CBR, VBR			H.264 : CBR, VBR, CVBR					
Max.User Access	-			-			5		16 clients		
Audio	Audio in/Out	1ch Audio(Internal MIC) in				-			Mic In (Conn.), Additional Audio In/Out (selectable)	1CH Audio in / 1CH Audio out	
	Compression Format	G.711, G.726 Codec				-			G.711		G.711 Codec
	Communication	2way				-					2way
IP	IPv4		IPv4, IPv6			IPv4					
Protocol	IPv4, HTTP, SMTP, UPnP, DNS, SSL, RTSP, TCP, DHCP,???		HTTP, HTTPS, FTP, ICMP, IGMP, SMTP, UPnP, DNS, DDNS, SSL, RTSP, TCP, UDP, DHCP, SNMP, CDP, Zeroconf			HTTP, HTTPS, UPnP, DNS, DDNS, RTP/RTSP, TCP/IP, UDP, DHCP, RARP, NTP			HTTP, HTTPS, UPnP, DNS, DDNS, RTP/RTSP, TCP/IP, UDP, DHCP, RARP, NTP, Visca over IP (HTTP)	HTTP, HTTPS, FTP, SMTP, UPnP, DNS, DDNS, RTP/RTSP, TCP/IP, UDP, DHCP, SNMP, Zeroconf, TELNET, RARP, PPPoE, PAP, CHAP, NTP	
Web Viewer	Web browser	Internet Explorer			Internet Explorer, Edge, Safari, Firefox, Chrome					Internet Explorer	
	Language	Korean, English, Chinese				English				Korean, English	
External Storage	Micro SD card available										
SW Integration API	Onvif Profile S, Open API, KT&C API			Onvif (Profile S, Profile G) , KT&C API			Onvif, KT&C API		Onvif (Profile S)		
Physical and Environmental											
Ingress Protection Grade	-		IP67		-		IP67		-		
Color/Material	Black / Aluminum										
Dimension(mm)	47.5mmX47.5mm	Φ23X102.6mm	47.5mmX47.5mm	Φ23 X102.6mm	30mmX30mm	Φ19X81.8mm	32mmX32mm	38mmX38mm	42X42mm		
Weight	Approx.130g (with PoE Cable)	Approx.140.5g (with PoE Cable)	Approx.120.2g (with DC12V Cable)	Approx. 140.5g (PoE Cable)	Approx.79.6g (with PoE Cable)	Approx.85.5g (with PoE Cable)	Approx.5.65g	Approx.7.65g	Approx.22g		
Operating Temperature	-10°C~+50°C										
Storage Temperature	-20°C~+60°C										
12VDC(±10%)											
Supply Voltage	12VDC(±10%), PoE(IEEE802.3af)										
Power Consumption	12VDC(Max.220mA), PoE(Max.3W)			12VDC(Max.210mA), PoE (Max.3.5W)			12VDC(Max.190mA), PoE (Max.3.0W)	12VDC(Max.170mA), PoE (Max.3.1W)	12VDC(Max.190mA), PoE (Max.3.0W)	12VDC(±10%) (under 170mA estimated)	
Optional 1	-		KNC-HDBI230P4: Supercone Pinhole 4.3mm Lens	KNC-HMS1847-IP4: Supercone Pinhole 4.3mm Lens	KNC-HMB1823-IB: Board Fixed 3.6mm Lens	KNC-HMS6330-IP4: Supercone Pinhole 4.3mm Lens	-		PoE(IEEE802.3af) Max.3.6W		
Optional 2	-		12VDC only, Without PoE			-		-		-	

1/ KNC-HDi47B



KTC-HMS1847-iB



Board Lens

Pinhole Lens(P4)

2/ KTC-HDBi230WX

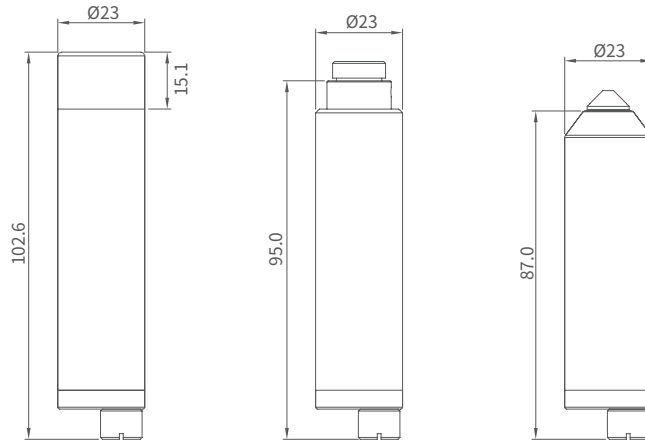


KNC-HMB1823-iWX

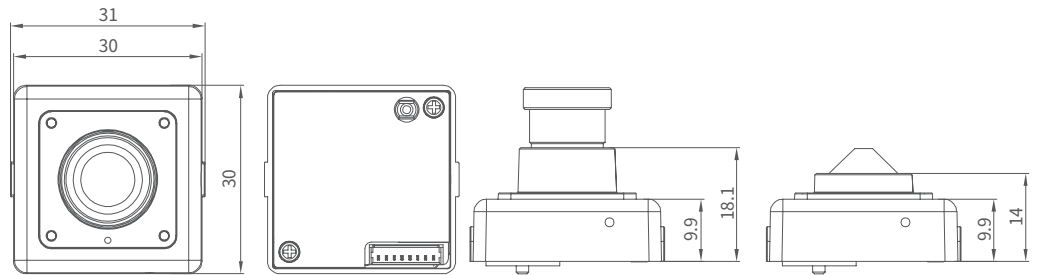
KNC-HDBi230WX

KNC-HDBi230B

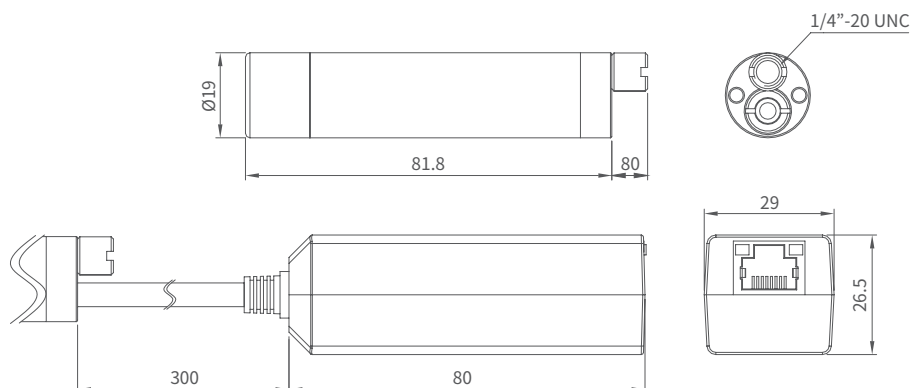
KNC-HDBi230P4



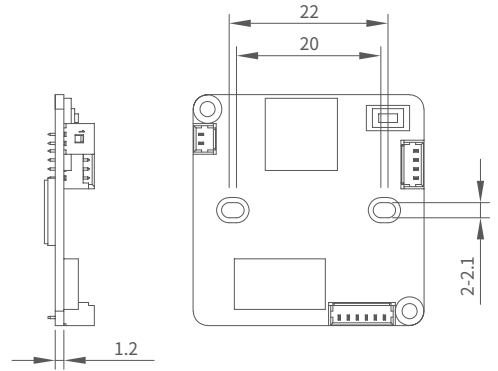
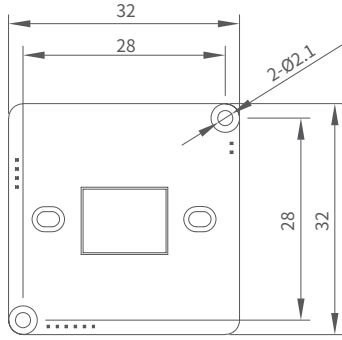
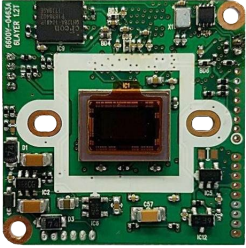
3/ KNC-HMS6330-iB



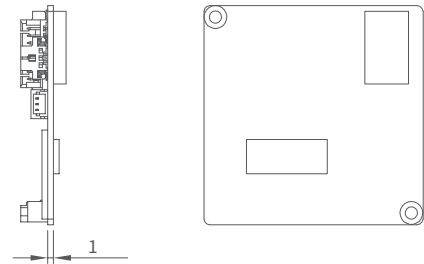
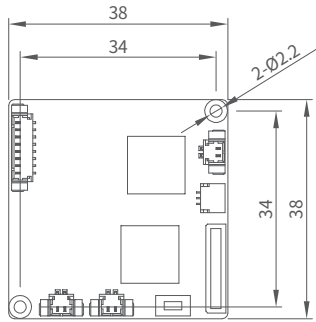
4/ KNC-HMB6319-iWX



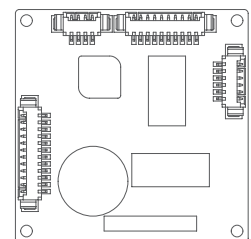
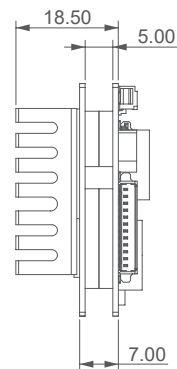
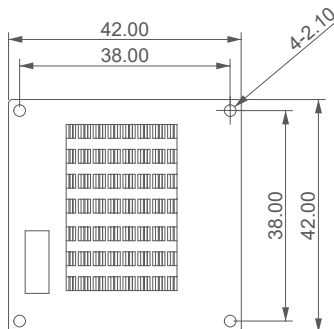
1/ ACE-HMS6332-iB



2/ ACE-HEN6338-iL

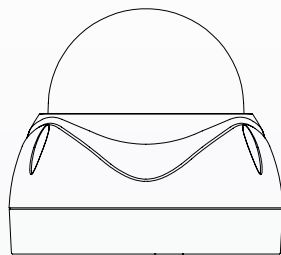


3/ ACE-HENS342-iL





KT&C Video Surveillance

PTZ CAMERA



1/ Selection Guide

Model Name	KPT-HMP7812-TAZx	KPT-HMP5612-TAZx
Image		
Type	True D&N PTZ Dome	
Image Sensor	1/2.8" Progressive Scan Exmor CMOS	
Max Resolution	1080p@30(25)fps	
Video Out	TVI / AVI	
Lens	Optical 12x / Digital 12x	
D&N	Auto/Day(Color)/Night(BW)	Auto(AGC+CDE,CDS,AGC)/Day(Color)/Night(BW)
Pan	Rotation Range: 360° Endless Max.Speed : 360°/sec	Rotation Range: 360° Endless Max.Speed : 360°/sec
Tilt	Rotation Range: 0°~180°	Rotation Range: 0°~180° Max.Speed : 0°~180°/sec
IP Rating	IP66	

2/ Main Features

• Wide Dynamic Range

Wide dynamic range can represent a greater range of luminance levels than can be achieved with using the more traditional "Back light compensation". This is useful during any real-world scenes containing very bright, direct sunlight to extreme shade, or very faint.



WDR OFF



WDR ON

• Digital Image Stabilization

DIS allows reduction in image blurring caused by vibration.



No Digital Image Stabilization

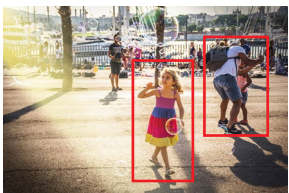


With Digital Image Stabilization

• Motion Detection

Motion detection is the process of detecting a change in the position of an object relative to its surroundings or a change in the surroundings relative to an object.

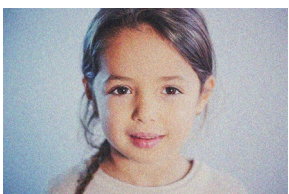
4 zones can be specified.



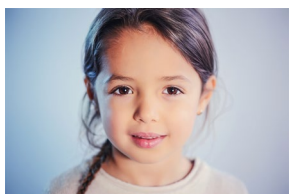
Motion Detection

• Noise Reduction

Noise reduction is the process of removing noise from a signal. The HZ78 series cameras are optimized to obtain extremely low-noise image by incorporating 2D/3D-DNR.



Before Noise Reduction Adjustment



After Noise Reduction Adjustment

• Auto-Flip

180° Reverse Auto-Flip can electronically flip the camera image 180 degrees without physically 180degrees panning. The camera can then continue to follow a passing person or object in any direction.



KPT-HMP7812

• Ingress Protection Grade



KPT-HMP7812

• Excellent High Sensitivity

1/1.9" Sensor can obtain superior low-noise image even in very dark environments and then provide a very clear color image.



Original 1/3 type



• Operating Temperature



KPT-HMP7812
KPT-HMP5612
KPT-HAP5630

Pan / Tilt Zoom Camera

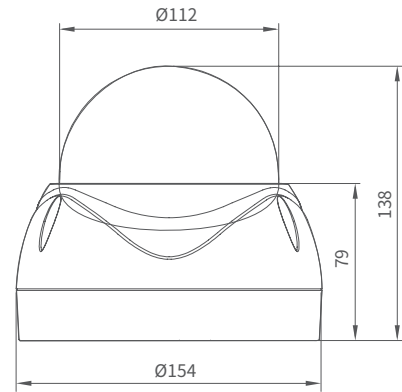
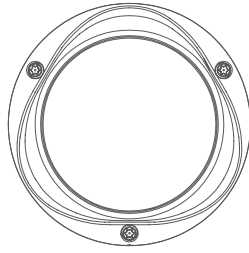
PTZ

Model Name		KPT-HMP7812-TAZx	KPT-HMP5612-TAZx
Image			
Video System			
Image Sensor		Exmor 1/2.8" R Progressive Scan CMOS	
Effective Pixels		2.13MP 1945(H) x 1097(V)	
Video Output mode		TVI / AVI	
Max. Video Resolution		1080p@30(25fps)	
Synchronization system		Internal	
Min.Illumination			
Min.Illumination		Day mode: 0.08Lux(F1.6, DSS off) Night mode: 0.06Lux(F1.6, DSS off)	
S/N Rate		More than 52dB(AGC off, DSS off)	
Lens			
Type		AF Optical zoom lens(DC Iris), IR Corrective	
Focal Length		f=5.3mm~64mm	
F-value		F1.6(W)~2.8(T)	
Angle of View		Horizontal 58.2°(W)~4.83°(T), Vertical 34°(W)~2.8(T)°	
Zoom ratio		Optical 12x / Digital 12x	
Focus Min.Working Distance		0.01m(Wide)/1.0m(Tele)~∞	
Focus Control		Auto/Manual/Semi Auto	Auto/Interval/One Push/Manual/Presets
Pan/Tilt			
Pan Range		360° Continuous Rotation	
Pan Speed		Max. 360°/sec	Max.360°/sec, Manual: Min.15°/sec~Max.360°/sec
Tilt Range		0~180°	
Tilt Speed		-	Max.180°/sec, Manual: Min.15°/sec~Max.180°/sec
Sequence		Presets(253ea), Tour(8ea), Pattern(6ea)	Presets(255ea), Scan(8ea), Pattern(4ea), Tour(8ea), Group(6ea)
Pan/Tilt Accuracy		±0.2°	
Auto Tracking		-	
Azimuth		Available(E/W/S/N/NE/NW/SE/SW OSD)	
D&N			
D&N Mode		Auto/Day(Color)/Night(BW)	Auto(AGC+CDE,CDS,AGC)/Day(Color)/Night(BW)
IR LED		-	
Viewable Distance		-	
Exposure			
AE mode		Auto/Shutter Priority/Iris Priority/Manual	
Brightness		0~14	
Manual Shutter		x32~x2(Low shutter), 1/30(25), 1/60(50)~1/30000	1/1, 1/2, 1/4(3), 1/8(6), 1/15(12), 1/30(25), 1/60(50)~1/10000
Manual Iris		F1.6~F19, Close	F1.6~F32, Close
Sense-up		Off~32fields	
ETC		Spot AE, Slow AE	
Functions			
White Balance		ATW/Indoor/Outdoor/Push/Manual	AUTO/One Push/Indoor/Outdoor/ATW/Manual
Image Freeze		-	
Image Flip		Off/Horizontal/Vertical/H+V(180° Flip)	
Privacy Mask Zone		8 Zones/8 mask color selectable	8 Zones/14 mask color selectable
Digital Image Stabilization		Yes	
Motion Detection		OFF/ON	4 Zones
D-WDR		Off/Low/Middle/High	
WDR		Off/Low/Middle/High	Off/On, Adjustable(Level:0~29, Contrast:0~5, Bright:0~19)
BLC		Off/0~10	Off/On, Area selectable
HLC		Off/0~20	Off/On, Area selectable
AGC		-3dB, Off, 2dB ~ 58dB	Max.72dB
Sharpness		Adjustable(0~15)	
3D-DNR		On/Off(1~5)	Off/Auto/Low/Middle/High
2D-DNR		AUTO	Off/Auto/Low/Middle/High
Defog		-	Off/On/Auto
Preset Position		253 position Presets(Zoom,Focus), 16Memory Presets, Custom Preset	
Language		English	
Communication			
RS485		Available	
Protocol		Pelco-D/P	Pelco-D
Baud rate		2400/4800/9600/19200/38400/57600bps	2400/4800/9600/19200/38400/57600/115200bps
UTC		Available	
Alarm / Audio I/O			
Alarm In		4 Normal Dry Contact (Selectable NC/NO)	
Alarm Out		1 Normal Relay 12VDC/500mA	
Audio In		-	
Audio Out		-	
Power			
Supply Voltage		24VAC(±10%), Optional : Available DC12V	
Power Consumption		43W (Heater on)	
Physical and Environmental			
Color/Material		Ivory/ Aluminium / PC	
Dimension(mm)		φ154 *138mm (Bubble Dome:φ112)	
Weight		Approx. 1.5Kg	
Operating Temperature		-10°C~+50°C, Humidity(20~80%)	
Storage Temperature		-20°C~+60°C, Humidity(20~95%)	
Ingress Protection Grade		IP66	
Vandal Resistance		-	

1/ KPT-HMP7812-TAZx



KPT-HMP5612-TAZx





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