

2021

Security Products



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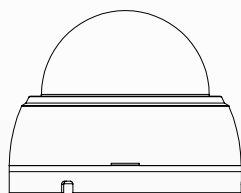
www.ktnc.co.kr



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Yangcheon-ro 11gil,
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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.



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.



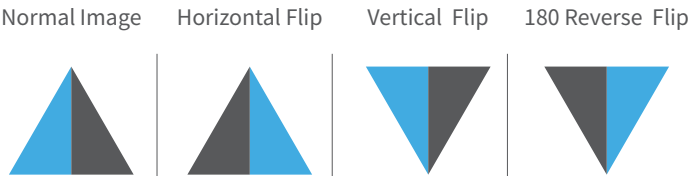
Before Noise Reduction Adjustment



After Noise Reduction Adjustment

• 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.



• Defog

Defog enables clearer images during foggy and low contrast environments.



Defog(OFF)



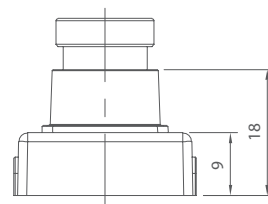
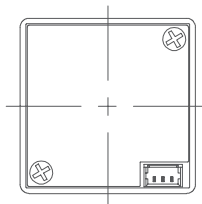
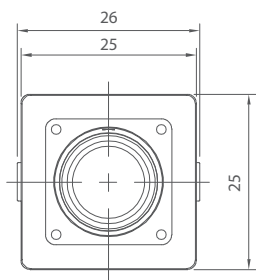
Defog(ON)

C Series Analogue Camera

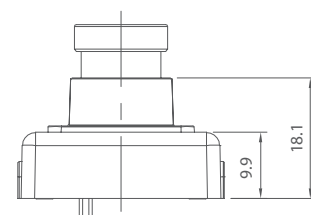
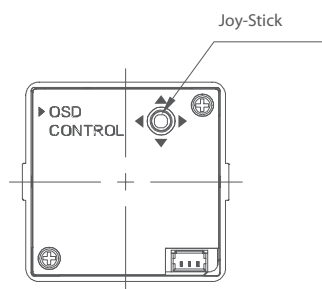
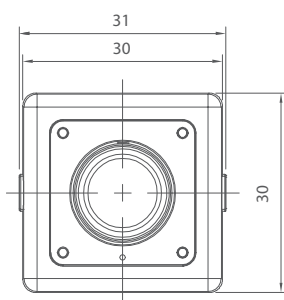
ANALOGUE

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-CDI28V12: 12VDC(±10%), 120mA max. 24VAC(±10%), 1.8W max.	KPC-CDR28V12IR: 12VDC(±10%), 240mA max. 24VAC(±10%), 2.8W max. KPC-CDR28V12: 12VDC(±10%), 120mA max. 24VAC(±10%), 1.8W max.	-						
Lens	Board Mount Lens		Pinhole lens					Board Mount Lens, Pinhole lens	

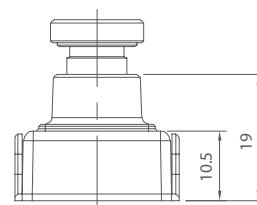
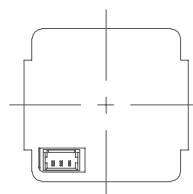
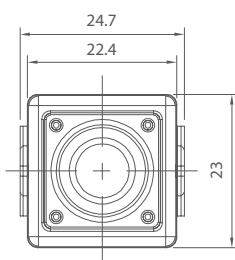
1/KPC-C500



2/KPC-C700



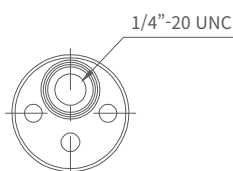
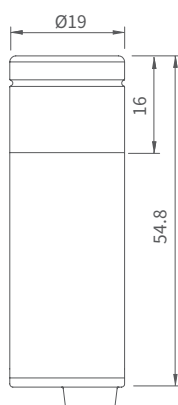
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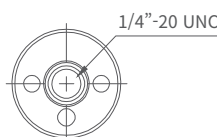
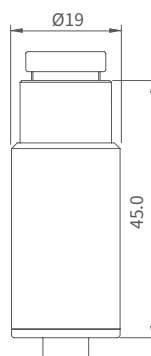
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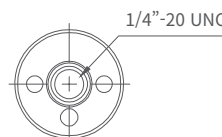
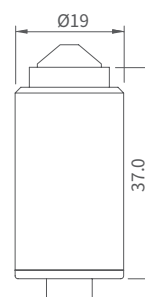
KPC-C190UWX



KPC-C190UB



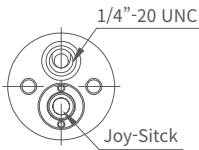
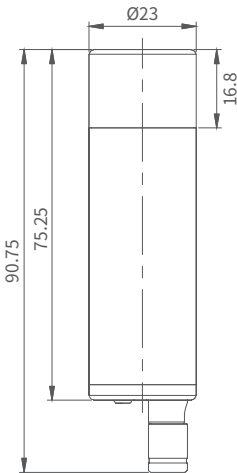
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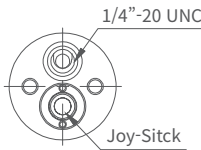
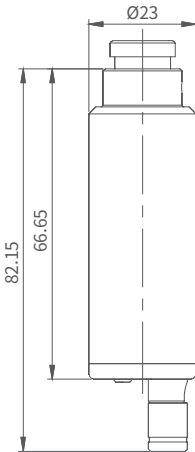
5/KPC-CJ230



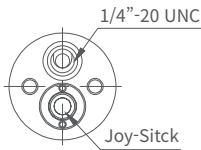
KPC-CJ230UWX



KPC-CJ230UB



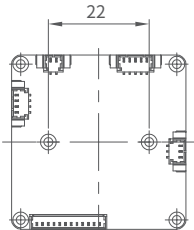
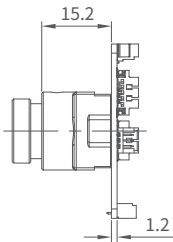
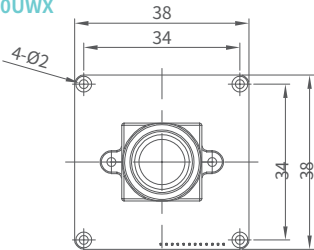
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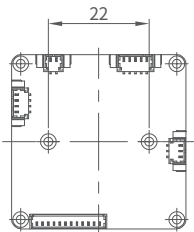
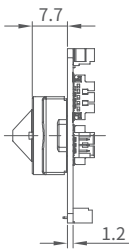
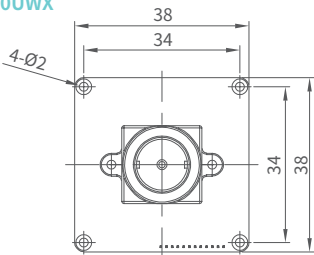
6/ACE-C380



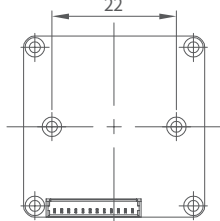
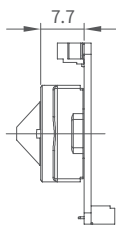
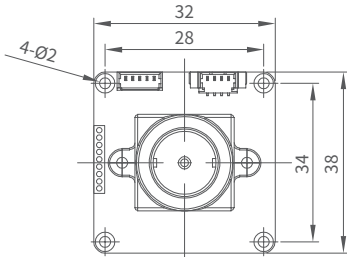
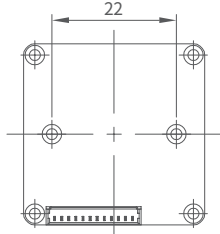
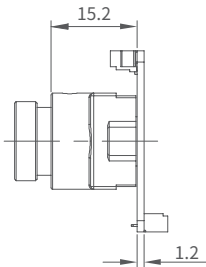
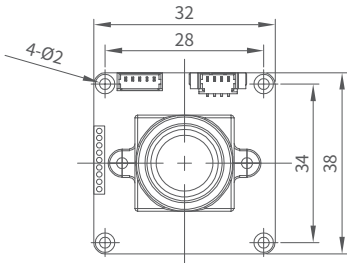
KPC-CJ230UWX



KPC-CJ230UWX

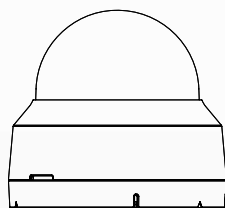


7/ACE-C320



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	KTC-MN3012B	ATC-TVI381	ATC-TVI321
Image							
Type	Box Camera MBN6312: Long Body MBN6412: Short Body	Indoor Dome	Outdoor Dome	Outdoor Bullet	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=3.6mm	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	IP67	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.



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

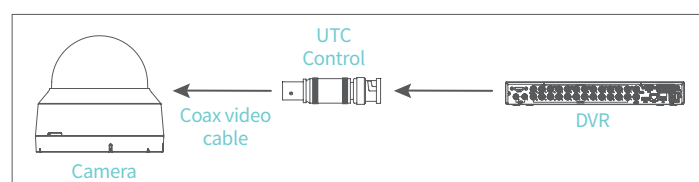
Image Rotation allows the images to be horizontally, vertically, or 180° reverse flipped. The Freeze function stills the image.

Normal Image Horizontal Flip Vertical Flip 180 Reverse Flip



• 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	KTC-HNN7810	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 <i>Exmor</i> Progressive Scan CMOS		1/2.8" Progressive Scan STARVIS CMOS					1/2.8" SONY <i>Exmor</i> Progressive Scan 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)					TVI, CVBS Output (AVI, TVI, CVI)	4in1 Output (AVI, TVI, CVI, CVBS)
Lens	f=3.6mm			C/CS Mount	f=2.8-12mm			f=5.1-51mm	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	Color	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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WDR OFF



WDR ON

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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

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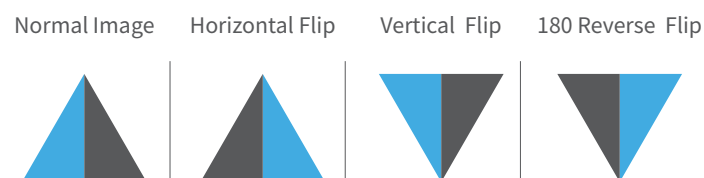
4 zones can be specified.



Motion Detection

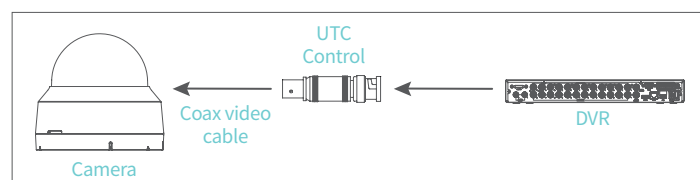
Image Rotation(E-Flip) and Freeze

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



UTC

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



4 in 1 HD Analogue Camera

4 in 1

Model Name	KTC-MBN6312 KTC-MBN6412	KTC-MD(N)8012V	KTC-MV(N)8012V	KTC-MN5012V	KTC-MN3012B	ATC-TVI381	ATC-TVI321
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		Fixed lens	Varifocal DC Iris lens	Fixed Board Lens
	Focal Length	Depend on lens	2.8-12mm(2MP), F 1.6		3.6mm, F 2.0	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)	106.9(D) x 89.7(H) x 47.5(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)	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)	20 LEDs(850nm)	-	
IR Range	-	KTC-MD8012V : - KTC-MDN8012V : 20M(66ft.)	KTC-MV8012V : - KTC-MVN8012V : 20M(66ft.)	30M(98ft.)	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, PORTUGUÊS, 日本語, 한국어						
Video Output mode	AVI, TVI, CVI, CVBS						
General							
IP Grade	-		IP68	IP66	IP67		
Operating Temperature	-10°C~+50°C		-40°C~+60°C	-10°C~+50°C			
Storage Temperature	-20°C~+60°C						
Dimension(mm)	KTC-MBN6312 : 58X58X110.4mm KTC-MBN6412 : 58X58X70.5mm	(Bubble Φ80) Φ107x97.1	(Bubble Φ80) Φ133x111.8	Φ65x120mm (without bracket/Sunshield)	Φ58.3x101mm (without Sunshield)	38x38mm	32x32mm
Weight	KTC-MBN6312 : Approx.230g KTC-MBN6412 : Approx.180g	KTC-MD8012V : Approx.230g KTC-MDN8012V : Approx.240g	KTC-MV8012V : Approx.705g KTC-MVN8012V : Approx.720g	Approx.700g	Approx.320.4g	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.340mA@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-MD8012B : 3.6mm Board	KTC-MV8012B : 3.6mm Board	-			

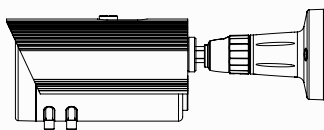
4 in 1 HD Analogue Camera

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	KTC-HNN7810	ATC-TE382
Image										
Image Sensor		1/2.8" SONY Exmor Progressive Scan CMOS	1/2.8" Progressive Scan STARVIS CMOS						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			TVI:1080p@30(25fps) TV out: CVBS 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			AF Optical zoom lens (DC Iris), IR Corrective	Varifocal DC Iris lens	
	Focal Length	3.6mm, F 2.0		Depend on lens	2.8~12mm(2MP), F 1.6			f=5.1mm~51mm	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)	Horizontal 54.0°(W)~4.9°(T), Vertical 31.0°(W)~4.0°(T)	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)	Day mode: 0.05Lux(F1.6) Night mode: 0.03Lux (F1.6/ IR-cut filter on) DSS OFF, AGC28dB	0.1Lux (F1.6, AGC33dB, DSS:x2)	
IR LEDs		-				KTC-MD8022V : - KTC-MDN8022V : 24 LEDs(850nm) KTC-MD8022V : -	KTC-MV8022V : - KTC-MVN8022V : 24 LEDs(850nm) KTC-MV8022V : -	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							AUTO/ATW/Indoor/Outdoor/ Push/Manual	AUTO/AUTO EXT/PUSH LOCK/MANUAL
Dynamic Range	WDR/BLC	OFF/BLC/HLC/WDR15P/WDR30P(4 Zones selectable)							OFF/BLC/HLC/Area	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)							x32~x2(Low shutter), 1/30(25), 1/60(50)~1/30000	AUTO/FLICKER/MANUAL/(1/30(25)~1/30,000)
Digital Slow Shutter(DSS)		OFF~x32								
Auto Gain Control(AGC)		OFF~45dB							-3dB ~ Max.58dB	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/DAY(COLOR)/NIGHT(BW)	AUTO/COLOR/B&W (Electronic D&N)
Noise Reduction		3D-DNR(OFF/LOW/MIDDLE/HIGH)							3D-DNR(OFF/1~5)	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)							OFF/LOW/MIDDLE/HIGH	OFF/ON(AUTO/MANUAL)
Sharpness		0~10							Adjustable(0~15)	0~10
OSD control		Cable JOYSTIC, UTC		Rear OSD button, UTC	JOYSTIC, UTC				UTC	
Language		ENGLISH,Русский, ESPAÑOL, DEUTSCH, FRANCAISE, PORTUGUÊS, 日本語, 한국어							ENGLISH, JAPANSE, RUSSIAN, SPANISH, GERMAN, FRANCE, PORTUGUESE, CHINESE	ENGLISH,Русский, ESPAÑOL, DEUTSCH, FRANCAISE, PORTUGUÊS, 日本語, 한국어
Video Output mode		HD-SDI/EX-SDI1.0/EX-SDI2.0/AVI/CVI/TVI/CVBS	AVI, TVI, CVI, CVBS						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)	Φ67.4 X 129.4mm (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.937.2g	Approx.46.6g
Power Source		12VDC(±10%)								
Power Consumption		Max.130mA@12VDC	Max.110mA@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)			24VAC(±7VAC)	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	24VAC, Max.12W (Heater on)	-
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-ETR522	KTC-EN502V	KTC-EN302	KTC-MEBN6322 KTC-MEBN6422
Image							
Type	Box Camera MEBN6312: Long Body MEBN6412: Short Body	Indoor Dome	Outdoor Dome	Turret 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=3.6mm	f=2.8~12mm	f=3.6mm	C/CS Mount
D&N	True D&N	ED82V : Color EDN82V : 24LEDs	EV82V : Color EVN82V : 24LEDs	True D&N/20LEDs	True D&N/20LEDs	True D&N/20LEDs	Auto ICR
IP Grade	N/A		IP68	IP66	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

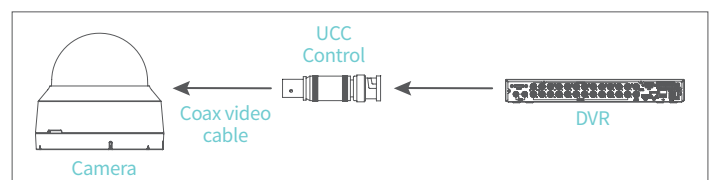
Image Rotation allows the images to be horizontally, vertically, or 180° reverse flipped. The Freeze function stills the image.

Normal Image Horizontal Flip Vertical Flip 180 Reverse Flip



UCC

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



1/ Selection Guide

Model Name	KTC-ED(N)8022V	KTC-EV(N)8022V	KTC-EN5022V	KTC-VEB192WX KTC-VHB192WX KTC-VHB192WX	KTC-HMB7823-HWX	KTC-HMB7865-H	KTC-HMS8130-EB
Image							
Type	Indoor Dome	Outdoor Dome	Outdoor Bullet	19Φ Bullet	Mini Bullet		Mini Square
Image Sensor	1/2.8" Progressive Scan STARVIS CMOS			Panasonic 1/3" Progressive	1/2.8" SONY Exmor Progressive Scan CMOS		
Max Resolution	1080p(1920x1080)@30(25)fps			1080p@60(50)fps	1080p(1920x1080)@30(25)fps		
Video Out mode	HD-SDI, EX-SDI1.0&2.0, CVBS			KTC-VEB192WX: EX-SDI KTC-VHB192WX: HD-SDI KTC-VHB192WX: HD-SDI	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	Color	True D&N		
IP Grade	N/A	IP68	IP66	IP67	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

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Defog(OFF)



Defog(ON)

1080p Resolution



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Image Rotation(E-Flip) and Freeze

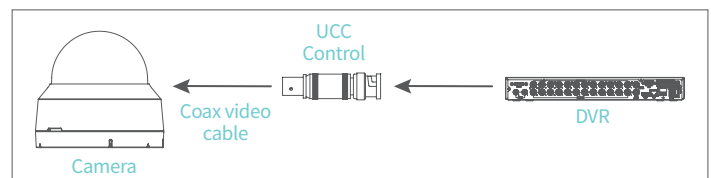
Image Rotation allows the images to be horizontally, vertically, or 180° reverse flipped. The Freeze function stills the image.

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-ETR522	KTC-EN502V	KTC-EN302	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	C/CS Mount lens	Varifocal DC Iris lens		Fixed lens	Varifocal DC Iris lens	Fixed lens	C/CS Mount lens	
	Focal Length	Depend on lens	2.8~12mm(2MP), F 1.6		3.6mm, F 2.0	2.8~12mm(2MP), F 1.6	3.6mm, F 2.0	Depend on lens	
	Angle of View	Depend on lens	113 ~38.8 (D)x96.5 ~38.8 (H)x52.2 ~19.0 (V)		106.9 (D)x89.7 (H)x47.5 (V)	133.4 ~39.7 (D)x110.3 ~34.5 (H)x57.0 ~19.3 (V)	106.9 (D)x89.7 (H)x47.5 (V)	Depend on lens	
Min.Illumination		0.05Lux (F1.2, ICR OFF, AGC33dB, DSS:x2)	KTC-ED82V : 0.2Lux(F1.6, AGC33dB, DSS:x2) KTC-EDN82V : 0Lux(with IR LED on)	KTC-EV82V : 0.2Lux(F1.6, AGC33dB, DSS:x2) KTC-EVN82V : 0Lux(with IR LED on)	0Lux(with IR LED on)			0.03Lux (F1.2, ICR OFF, AGC33dB, DSS:x2)	
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.)	20M(66ft.)	30M(98ft.)	20M(66ft.)	-	
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		A/D KEY	JOYSTIC	A/D KEY	Rear OSD button, UTC, UCC (HD-SDI / EX-SDI 2.0)	
Language		ENGLISH,Русский, ESPAÑOL, DEUTSCH, FRANCAISE, PORTUGUÊS, 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		IP67	-	
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 Φ80) Φ107x97.1	(Bubble Φ80) Φ133x111.8	Φ93x63mm	Φ65x120mm(without bracket/ Sunshield)	Φ58.3x101mm (without 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.332g	Approx.700g	Approx.320.4g	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.330mA@ 12VDC	Max.290mA@12VDC	Max.330mA@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-VEB192WX KTC-VHB192WX KTC-VEHB192WX	KTC-HMB7823-HWX	KTC-HMB7865-H	KTC-HMS8130-EB
Image								
Image Sensor		1/2.8" Progressive Scan STARVIS CMOS			1/3" Progressive Scan Panasonic CMOS	1/2.8" SONY Exmor Progressive Scan CMOS		
Effective Pixels		1945(H) x 1097(V)			1944(H) x 1092(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			EX-SDI 1.0: 1080p@60fps(50fps)/ 1080i@60fps(50fps) 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)/720 p@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 2.6	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)	120°(D) x 96°(H) x 72°(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(F1.6, AGC33dB, DSS:x2) KTC-ED8022V : 0Lux(with IR LED on)	KTC-EV8022V : 0.1Lux(F1.6, AGC33dB, DSS:x2) KTC-EV8022V : 0Lux(with IR LED on)	0Lux(with IR LED on)	0.3Lux@F2.6 , 30IRE	0.1Lux(F2.0, AGC20dB, DSS:x2)		0.2Lux(F2.0, AGC33dB, DSS:x2)
IR LEDs		KTC-ED8022V : - KTC-EDN8022V : 24 LEDs(850nm) KTC-ED8022V : -	KTC-EV8022V : - KTC-EVN8022V : 24 LEDs(850nm) KTC-EV8022V : -	20 LEDs(850nm)	-			
IR Range		KTC-EDN8022V : 20M(66ft.)	KTC-EVN8022V : 20M(66ft.)	30M(98ft.)	-			
White Balance		AUTO/AUTO EXT/PUSH LOCK/MANUAL			AWB/ ATW/ 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/ HLC/ BLC/ WDR	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~60dB	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	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			OFF/ MIRROR/ FLIP	OFF/H-FLIP/V-FLIP/HV-FLIP		
Defog		OFF/ON(AUTO/MANUAL)						
Sharpness		0~10			0~20	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, PORTUGUÊS, 日本語, 한국어			-	English,Chinese,Chinese(s),Janpanese		English / Japanese / Russian / Spanish / German /France/ Portuguese / Korean
Video Output mode		HD-SDI/EX-SDI1.0/EX-SDI2.0/CVBS			EX-SDI 1.0/ 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	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 Φ80) Φ107x97.1	(Bubble Φ80) Φ133x111.8	Φ65x120mm(without bracket/ Sunshield)	Φ19x56.2mm (Waterproof type)	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.120g	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.150mA@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

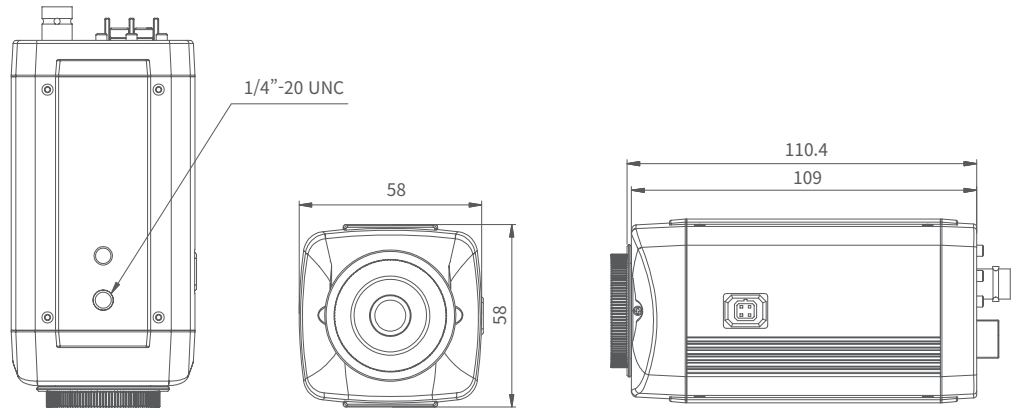
Unit(mm)

4 in 1 /EX-SDI

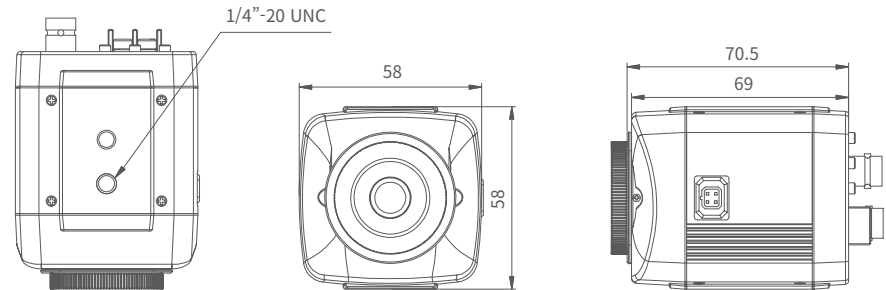
1/ KTC-MBN6312 / KTCMBN6412



KTC-MBN6312 / KTC-MBN6322
KTC-MBEN6312 / KTC-MBEN6322



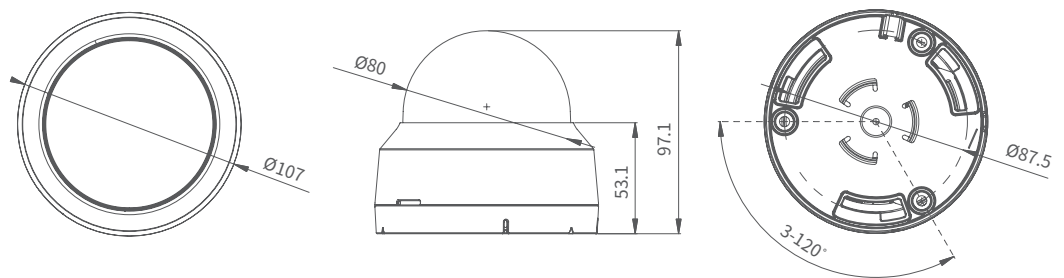
KTC-MBN6412 / KTC-MBN6422
KTC-MBEN6412 / KTC-MBEN6422



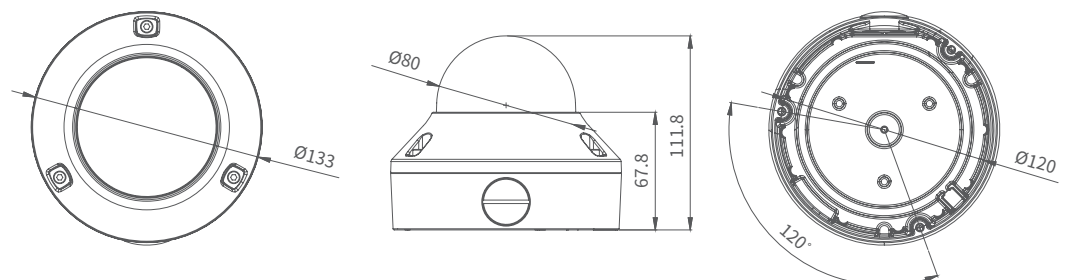
2/ KTC-MD(N)8012 / KTC-MV(N)8012



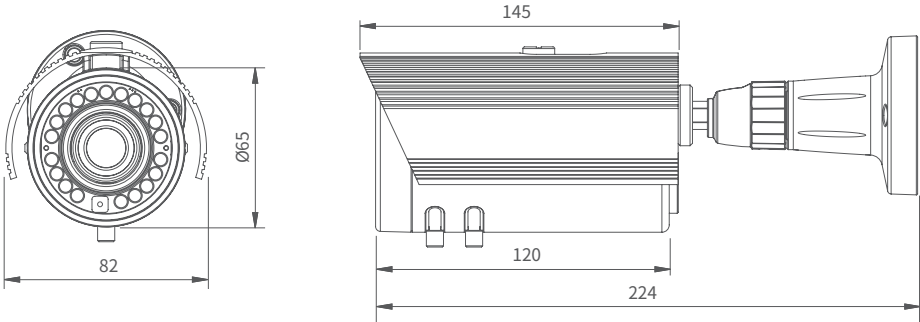
KTC-MD(N)8012V / KTC-MD(N)8022V
KTC-ED(N)82V / KTC-ED(N)8022V
KPC-CDI28V12IR / KPC-CDI28V12



KTC-MD(N)8012V / KTC-MD(N)8022V
KTC-ED(N)82V / KTC-ED(N)8022V
KPC-CDR28V12IR / KPC-CDR28V12



3/
KTC-MN5012
KTC-MN5022
KTC-EN502



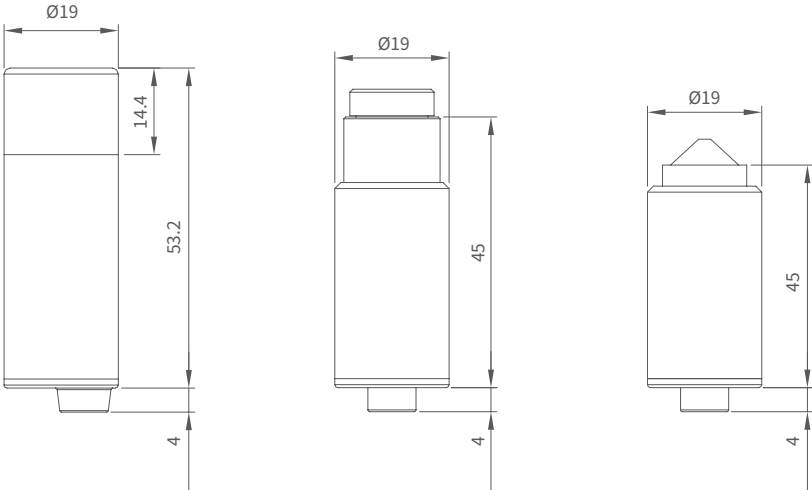
4/
KTC-MB1902xx



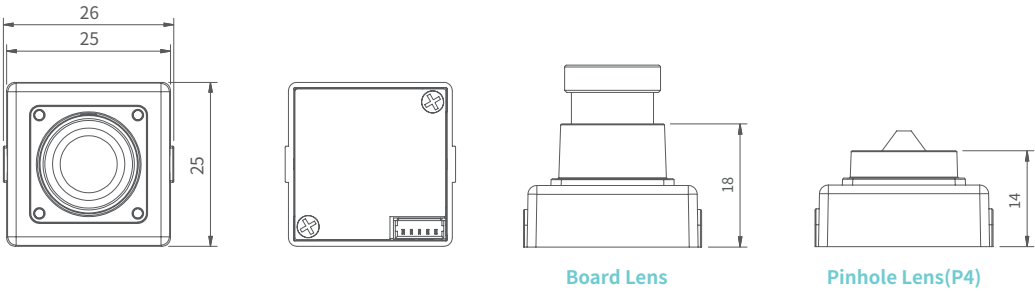
KTC-MB1902WX

KTC-MB1902B

KTC-MB1902P4



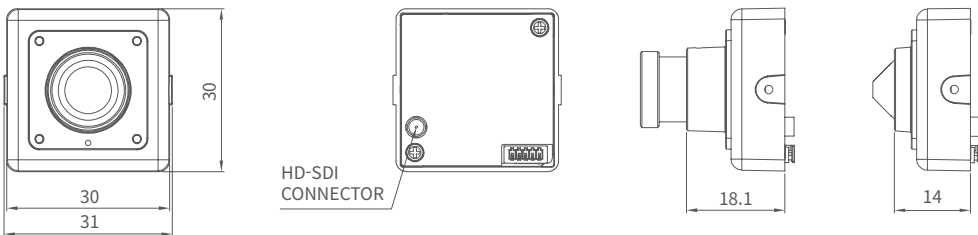
5/
KTC-MS2502xx



Board Lens

Pinhole Lens(P4)

6/
KTC-HMS7130xx



HD-SDI CONNECTOR

Dimension

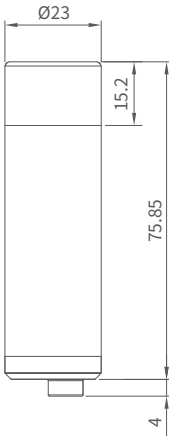
Unit(mm)

4 in 1 /EX-SDI

7/ KTC-HMB7823-HWX



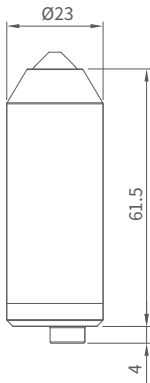
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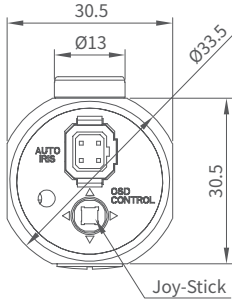
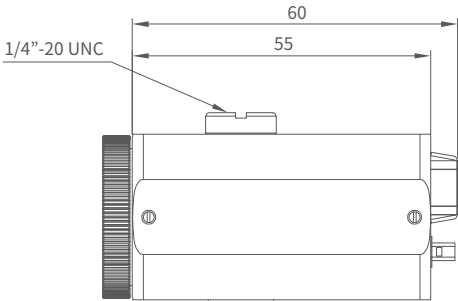
KTC-MB1902B



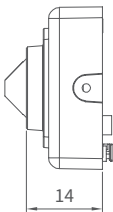
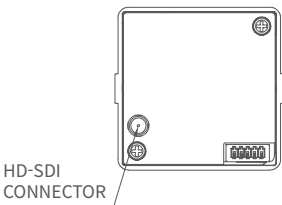
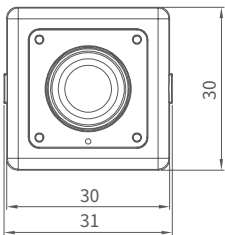
KTC-MB1902P4



8/ KTC-HMB7865-H

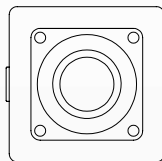


9/ KTC-HMS8130-EB



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
Image								
Type	Mini Square	Mini Bullet	Mini Square	Mini Bullet	Mini Square	Mini Bullet	Camera module	Camera module
Image Sensor	1/2.9" Progressive Scan SONY <i>Exmor</i> CMOS		1/2.8" Progressive Scan STARVIS CMOS					
Feature	• H.264 Main Profiles • Fixed lens 3.6mm • Electronic Day&Night • 3D DNR, DSS, BLC, DWDR • Internal Mic / Micro-SD up to 32GB		• 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		• Fast boot up based on RTOS • H.264 Main/Base Profiles • Fixed lens 3.6mm • Electronic Day&Night • 3D DNR, DSS, BLC, WDR		• 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

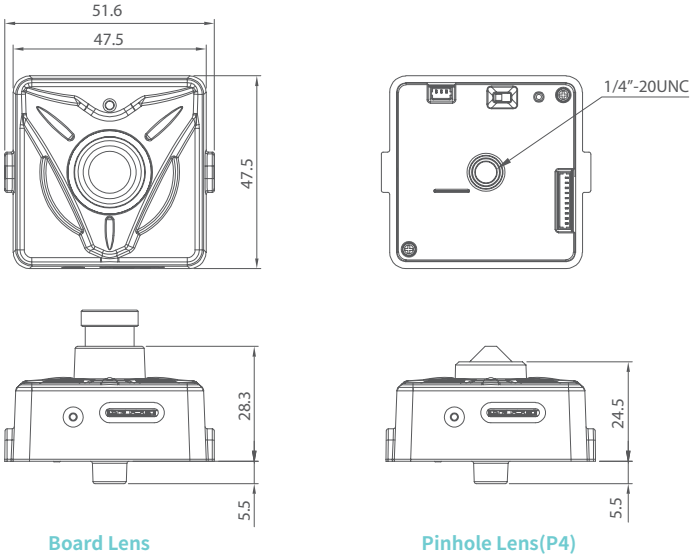
1080p is called full high-definition (HD) as a resolution of 1920x1080 (2.1MP) with aspect ratio of 16:9.

Model Name	KNC-HDI47B	KNC-HDBI230WX	KNC-HMS1847-IB	KNC-HMB1823-iWX	KNC-HMS6330-IB	KNC-HMB6319-iWX	ACE-HMS6332-IB	ACE-HEN6338-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						
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
	Alarm Triggers	-	Motion, Network Disconnection, SD card error, Text in		Motion			
	Alarm Events	FTP, E-mail Notification, SD recording, External alarm output		FTP, E-mail Notification, SD recording		Network		
Network								
Ethernet	10/100 Base-T LAN				10/100 Base-T Ethernet			
Video Compression Format	H.264 Main Profile, MJPEG		H.265 Main Profile, H.264 BP/MP/HP, MJPEG		H.264 Baseline, Main Profile, MJPEG			
Video Resolution	1920x1080, 1280x720, 720x480, 320x240		1920x1080, 1280x720, 640x480		1920x1080, 1280x720, 800x600, 704x480, 704x400, 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)			
Streaming Capability	Multiple Streaming(Up to 3 Profiles)							
Streaming Method	Unicast		Unicast, Multicast		Unicast			
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			
Audio	Audio in/Out	1ch Audio(Internal MIC) in		-				Mic In (Conn.), Additional Audio In/Out (selectable)
	Compression Format	G.711, G.726 Codec		-				G.711
	Communication	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)
Web Viewer	Web browser	Internet Explorer		Internet Explorer, Edge, Safai, Firefox, Chrome				
	Language	Korean,English, Chinese			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			
Physical and Environmental								
Ingress Protection Grade	-	IP67	-	IP67	-	IP67	-	-
Color/Material	Black / Aluminum				Black / Zn	Black / Al	-	
Dimension(mm)	47.5mmX47.5mm	Φ23X102.6mm	47.5mmX47.5mm	Φ23 X102.6mm	30mmX30mm	Φ19X81.8mm	32mmX32mm	38mmX38mm
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
Operating Temperature	-10°C~+50°C							
Storage Temperature	-20°C~+60°C							
General								
Supply Voltage	12VDC(±10%), PoE(IEEE802.3af)							12VDC(±10%)
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)	- (under 170mA estimated)
Optional 1	-	KNC-HDBI230P4: Supercone Pinhole 4.3mm Lens	KNC-HMS1847-IP4: Supercone Pinhole 4.3mm Lens KNC-HMS1847-V: Vari-focal 2.8-12mm Lens	KNC-HMB1823-IB: Board Fixed 3.6mm Lens KNC-HMB1823-IP4: Supercone Pinhole 4.3mm Lens	KNC-HMS6330-IP4: Supercone Pinhole 4.3mm Lens	-		
Optional 2	-		12VDC only, Without PoE		-			

1/KNC-HDi47B



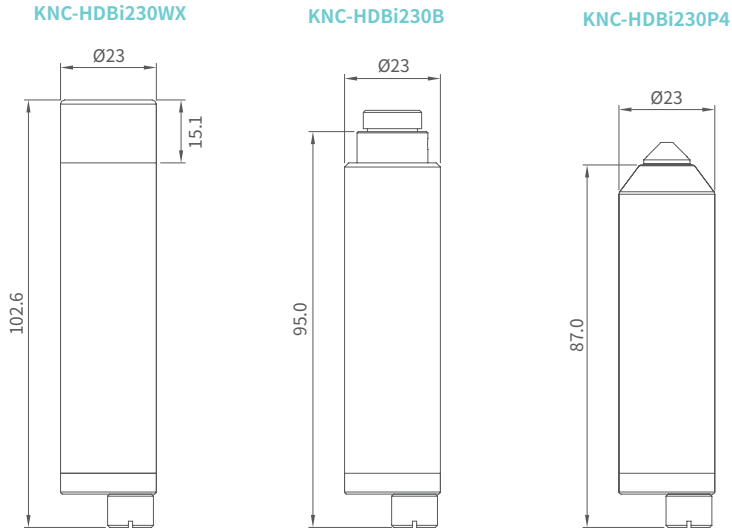
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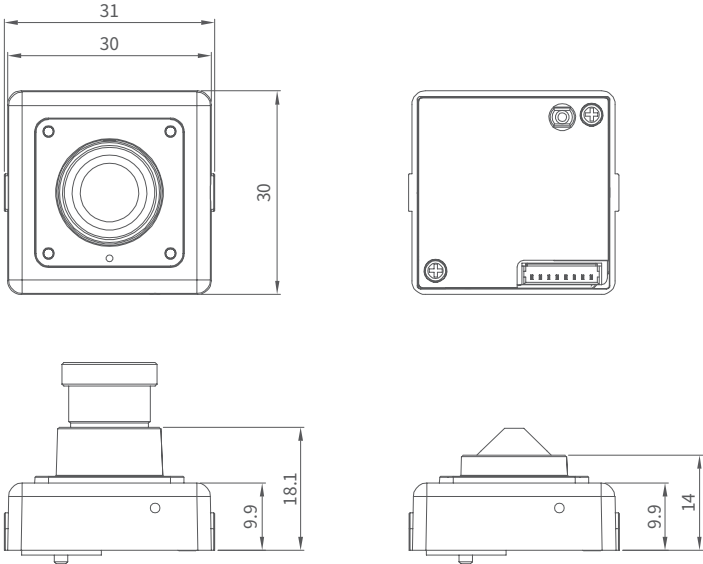
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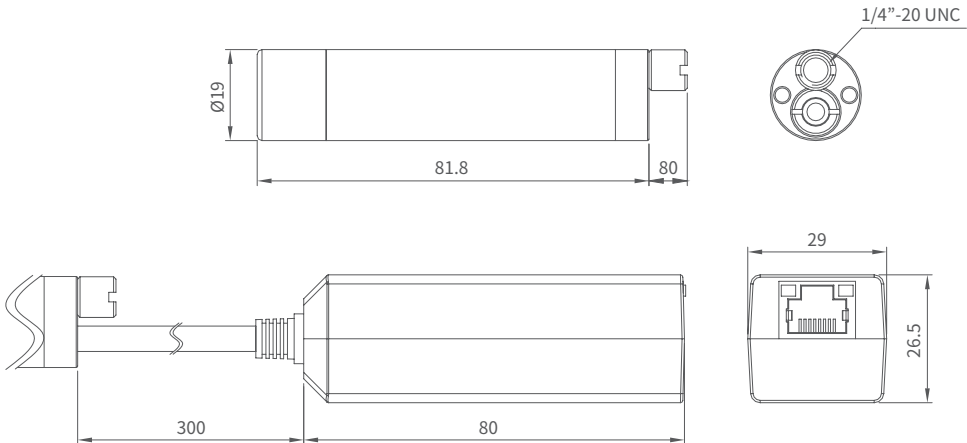
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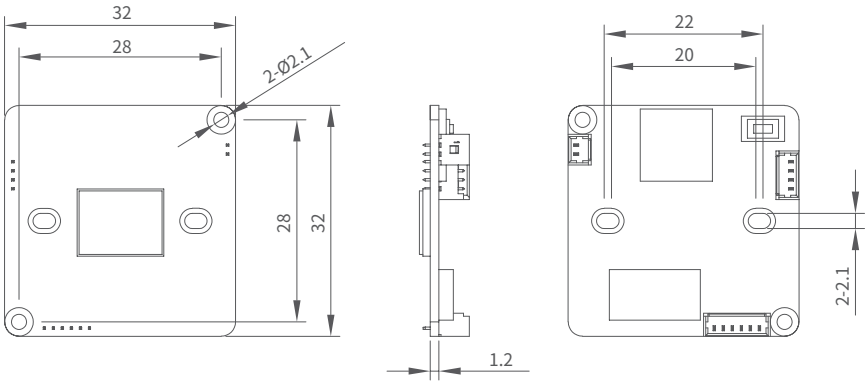
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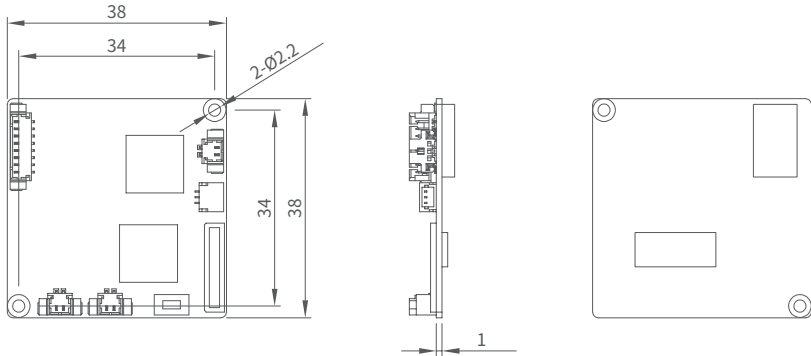
1/KNC-HMB6319-iWX



2/ACE-HMS6332-iB

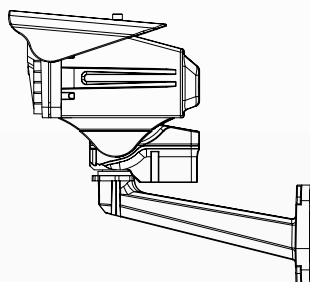


3/ACE-HEN6338-iL



KT&C Video Surveillance

PTZ CAMERA



Pan / Tilt Zoom Camera

PTZ

1/ Selection Guide

Model Name	KPT-HMP7812-TAZx	KPT-HMP5612-TAZx	KPT-HAP5630-TAZx	KPT-HAP5630-iZx
Image				
Type	True D&N PTZ Dome		True D&N IR PTZ Dome	
Image Sensor	1/2.8" Progressive Scan <i>Exmor</i> . CMOS		1/2" Progressive Scan <i>Exmor</i> . CMOS	
Max Resolution	1080p@30(25)fps			
Video Out	TVI / AVI			Network
Lens	Optical 12x / Digital 12x			
D&N	Auto/Day(Color)/Night(BW)	Auto(AGC+CDE,CDS,AGC)/Day(Color)/Night(BW)	Auto/Day(Color)/Night(BW)/External-H or L 8ea, Power LED(Distance: 100M)	
Pan	Rotation Range: 360° Endless Max.Speed : 360°/sec	Rotation Range: 360° Endless Max.Speed : 360°/sec	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	Rotation Range: 0°~180° Max.Speed : 0°~+90°/sec	Rotation Range: 0°~180° Max.Speed : 0°~+93°/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



KPT-HA7830

• 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.

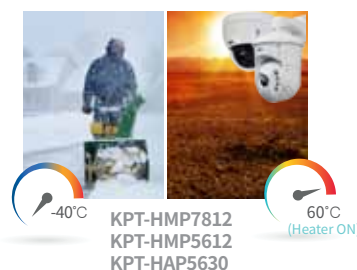


Original 1/3 type



KPT-HA7830

• Operating Temperature



Pan / Tilt Zoom Camera

PTZ

Model Name		KPT-HMP7812-TAZx	KPT-HMP5612-TAZx	KPT-HAP5630-TAZx
Image				
Video System				
Image Sensor		1/2.8" Exmor R Progressive Scan CMOS		1/2" Exmor Progressive Scan CMOS
Effective Pixels		2.13MP 1945(H) x 1097(V)		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)		Day mode: 0.1(Lux(F1.5) Night mode: 0.08Lux(F1.5/ IR-cut filter on)
S/N Rate		More than 52dB(AGC off, DSS off)		
Lens				
Lens	Type	AF Optical zoom lens(DC Iris), IR Corrective		
	Focal Length	f=5.3mm~64mm		f=6.0mm~180mm
	F-value	F1.6(W)~2.8(T)		F1.5(W)~4.3(T)
	Angle of View	Horizontal 58.2°(W)~4.83°(T), Vertical 34°(W)~2.8(T)°		Horizontal 61.2°(W)~2.32°(T), Vertical 35.7°(W)~1.31(T)°
Zoom ratio		Optical 12x / Digital 12x		Optical 30x / Digital 12x
Focus Min.Working Distance		0.01m(Wide)/1.0m(Tele)~∞		0.1m(Wide)/1.5m(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	Max.200°/sec, Manual: Min.0.5°/sec~Max.150°/sec
Tilt Range		0~180°		0°~+90°
Tilt Speed		-	Max.180°/sec, Manual: Min.15°/sec~Max.180°/sec	Max.180°/sec, Manual: Min.0.5°/sec~Max.180°/sec
Sequence		Preset(253ea), Tour(8ea), Pattern(6ea)	Preset(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		-	8ea, Power LED+	
Viewable Distance		-		100M
Exposure				
AE mode		Auto/Shutter Priority/Iris Priority/Manual		Auto/Shutter Priority/Iris Priority/AGC 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	1/1, 1/2, 1/4, 1/8, 1/15, 1/30, 1/60~1/10000
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		-	Off/On	
Image Flip		Off/Horizontal/Vertical/H+V(180° Flip)		
Privacy Mask Zone		8 Zones/8 mask color selectable	8 Zones/14 mask color selectable	8 Zones/14 mask color selectable, semi-transparency
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	Max.48dB
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				
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 / Audio I/O	Alarm In	4 Normal Dry Contact (Selectable NC/NO)		Input 2ea (Full Isolation)
	Alarm Out	1 Normal Relay 12VDC/500mA		Output 2ea (Full Isolation)
	Audio In	-		
	Audio Out	-		
Power				
Supply Voltage		24VAC(±10%), Optional : Availabile DC12V		24VAC(±4V)
Power Consumption		43W (Heater on)		Max.54W
Pysical and Environmental				
Color/Material		Ivory/ Aluminium / PC		Ivory/ Aluminum
Dimension(mm)		φ154 *138mm (Bubble Dome:φ112)		φ210 *310mm
Weight		Approx. 1.5Kg		Approx. 4.5Kg
Operating Temperature		-10°C~+50°C, Humidity(20~80%)		
Storage Temperature		-20°C~+60°C, Humidity(20~95%)		
Ingress Protection Grade		IP66		
Vandal Resistance		-		IK10

Pan / Tilt Zoom Camera

PTZ

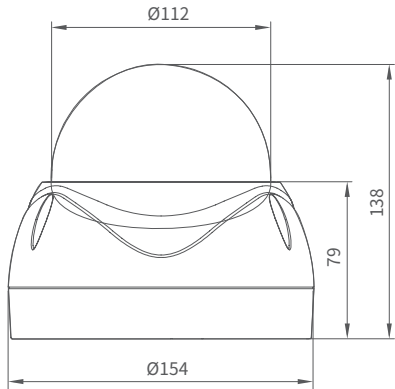
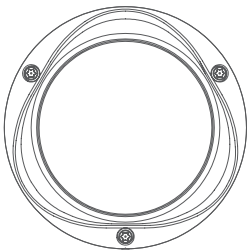
Model Name	KPT-HAP5630-iZx	
Image		
Video System		
Image Sensor	1/2" Exmor Progressive Scan CMOS	
Effective Pixels	2.13MP 1945(H) x 1097(V)	
Video Output mode	Network	
Max. Video Resolution	1080p@30(25fps)	
Synchronization system	Internal	
Min.Illumination		
Min.Illumination	Day mode: 0.1(Lux(F1.5) Night mode: 0.08Lux(F1.5/ IR-cut filter on) DSS OFF, AGC28dB	
S/N Rate	More than 52dB(AGC off, DSS off)	
Lens		
Type	AF Optical zoom lens(DC Iris), IR Corrective	
Focal Length	f=6.0mm~180mm	
F-value	F1.5(W)~4.3(T)	
Angle of View	Horizontal 61.2°(W)~2.32°(T), Vertical 36.1°(W)~1.31°(T)	
Zoom ratio	Optical 30x / Digital 12x	
Focus Min.Working Distance	0.1m(Wide)/1.5m(Tele)~∞	
Focus Control	Auto/Interval/One Push/Manual/Presets	
Pan/Tilt		
Pan Range	360° Continuous Rotation	
Pan Speed	Max.180°/sec, Manual: Min.0.5°/sec~Max.180°/sec	
Tilt Range	0°~+93°	
Tilt Speed	Max.180°/sec, Manual: Min.0.5°/sec~Max.180°/sec	
Sequence	Presets(255ea), Group(6ea), Tour(8ea), Scan(8ea), Pattern(4ea)	
Pan/Tilt Accuracy	±0.2°	
Auto Tracking	-	
Azimuth	Available(E/W/S/N/NE/NW/SE/SW OSD)	
D&N		
D&N Mode	Auto(AGC+CDE,CDS,AGC)/Day(Color)/Night(BW)	
IR LED	8ea, Power LED	
Viewable Distance	100M	
Exposure		
AE mode	Auto/Shutter Priority/Iris Priority/AGC Priority /Manual	
Brightness	0~14	
Manual Shutter	1/1, 1/2, 1/4, 1/8, 1/15, 1/30, 1/60~1/10000	
Manual Iris	F1.6~F32, Close	
Sense-up	Off~32fields	
ETC	Spot AE, Slow AE	
Functions		
White Balance	AUTO/One Push/Indoor/Outdoor/ATW/Manual	
Image Freeze	Off/On	
Image Flip	Off/Horizontal/Vertical/H+V(180° Flip)	
Privacy Mask Zone	8 Zones	
Digital Image Stabilization	Yes	
Motion Detection	4 Zones	
D-WDR	Off/Low/Middle/High	
WDR	Off/On, Adjustable(Level:0~29, Contrast:0~5, Bright:0~19)	
BLC	Off/On, Area selectable	
HLC	Off/On, Area selectable	
AGC	Max.48dB	
Sharpness	Adjustable(0~15)	
3D-DNR	Off/Auto/Low/Middle/High	
2D-DNR	Off/Auto/Low/Middle/High	
Defog	Off/On/Auto	
Presets Position	256 position Presets(Zoom,Focus), 16Memory Presets,Custom Preset	
Language	English	

Network		
Ethernet		10/100 Base-T LAN
Video Compression Format		H.264 High Profile, MJPEG
Video Resolution		1920x1080, 1280x1024, 1280x720, 704x480, 640x480, 640x352, 320x240
Max. Frame Rate		First: 1080p 30(25)fps (H.264, MJPEG) Second : VGA 30(25)fps (H.264, MJPEG) Third : CIF 30(25)fps (H.264, MJPEG)
Streaming Capability		Multiple Streaming(Up to 2 Profiles)
Streaming Method		Unicast, Multicast
Bitrate Control		H.264 : CBR, VBR, AVBR
Max.User Access		16 clients
Audio	Audio in/Out	1CH Audio in / 1CH Audio out
	Compression Format	G.711 Codec
	Communication	2way
IP		IPv4, IPv6
Protocol		HTTP, HTTPS, FTP, SMTP, UPnP, DNS, DDNS, RTP/RTSP, TCP/IP, UDP, DHCP, SNMP, Zeroconf, TELNET, RARP,PPPoE, PAP, CHAP, NTP
Security		-
Web Viewer	Web browser	Internet Explorer
	Language	English
External Storage		-
SW Integration API		Onvif (Profile S) , KT&C API
Communication		
Communication	RS485	Available
	Protocol	Pelco-D
	Baud rate	2400/4800/9600/19200/38400/57600/115200bps
	UTC	Available
Alarm / Audio I/O		
Alarm / Audio I/O	Alarm In	Input 2ea (Full Isolation)
	Alarm Out	Output 2ea (Full Isolation)
	Audio In	Input 1ea
	Audio Out	Output 1ea
Power		
Supply Voltage		24VAC(±4V)
Power Consumption		Max.54W
Pysical and Environmental		
Color/Material		Ivory/ Aluminum
Dimension(mm)		φ210 *310mm
Weight		Approx. 4.5Kg
Operating Temperature		-10℃~+50℃, Humidity(20~80%)
Storage Temperature		-20℃~+60℃, Humidity(20~95%)
Ingress Protection Grade		IP66
Vandal Resistance		-

1/KPT-HMP7812-TAZx



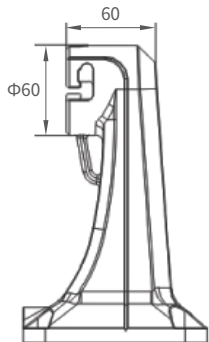
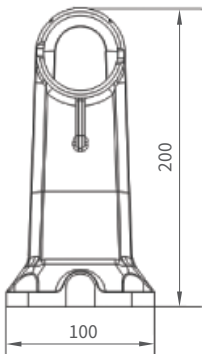
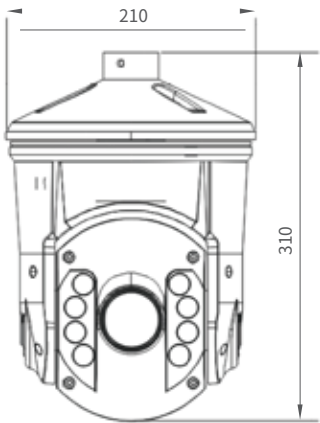
KPT-HMP5612-TAZx



2/KPT-HAP5630-TAZx



KPT-HAP5630-iZx



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