

## Hyper Wide Dynamic Box Camera (Effio WDR)

MTC-WD113EF  
MTC-WD113MEF

MTC-WD113EF, MTC-WD113MEF



## FEATURES

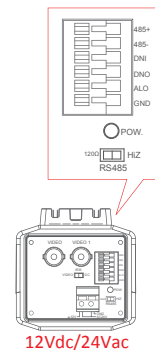
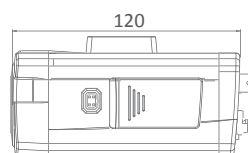
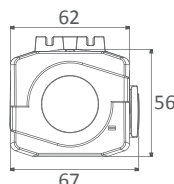
Mechanical IR Cut Filter (ICR)  
MTC-WD113MEF



Sony Effio WDR  
700TVL

## MTC-WD113EF, MTC-WD113MEF

- ◆1/3" Hyper Wide Dynamic Color Camera (Sony Effio WDR)
- ◆Color:680TVL, B/W:700TVL
- ◆Color:0.03Lux@F1.2, B/W:0.01Lux@F1.2, Sense-up:0.0001Lux@F1.2
- ◆Powerful 512X WDR (54dB)
- ◆Multi-Language OSD Control
- ◆High Light Compensation (HLC)
- ◆2D/3D Noise Reduction
- ◆Sense Up (512x) Functions
- ◆Digital Image Stabilizer (DIS)
- ◆E-zoom Function (1~256x)
- ◆Advanced Motion Detection Function
- ◆Quadrangle Mosaic Privacy Mask



## SPECIFICATIONS

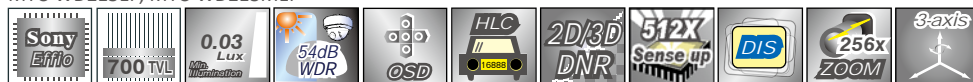
	MTC-WD113EF		MTC-WD113MEF	
	PAL	NTSC	PAL	NTSC
TV System	PAL	NTSC	PAL	NTSC
Image Sensor	1/3" Sony 960H Super HAD CCD II		1/3" Sony 960H EXview HAD CCD II	
Number of Total Pixels	1020(H)x596(V)	1020(H)x508(V)	1020(H)x596(V)	1020(H)x508(V)
Resolution ; DSP	Color:680TVL, B/W:700TVL ; Sony Effio WDR			
Minimum Illumination	Color:0.03Lux@F1.2, B/W:0.01Lux@F1.2, 0.005Lux@F1.2 (with ICR), Sense-up:0.0001Lux@F1.2			
Wide Dynamic Range	512X Normal Camera (54dB)			
Video Output	1.0Vp-p Composite, 75Ω (BNCx2)			
Signal to Noise Ratio (S/N)	More than 55dB (AGC off)			
Gamma Correction	0.45			
Mechanical IR Cut Filter (ICR)	NA		Automatically Switches (Switching Lux Level can be adjusted)	
IR LED ; Working Distance	NA		Compatible with Infrared Illuminator	
Menu	OSD Control or by RS485 Control			
Title	TITLE (LOCATION)			
Synchronizing System	INTERNAL / LINE LOCK (AC Version Only)			
Digital Day&Night Mode	COLOR / B&W / AUTO / EXT			
Electronic Shutter	AUTO (1/50(60)~1/100,000 sec.) / MANUAL: 1/50(60), FL 1/120(100), 1/200, 1/250, 1/300, 1/350, 1/400, 1/450, 1/500, 1/600, 1/750, 1/1,000, 1/1,500, 1/2,000, 1/3,000, 1/4,000, 1/10,000, 1/30,000, 1/60,000, 1/100,000 sec.			
Automatic Gain Control	0~200 Levels (Adjustable Level Settings)			
White Balance	ATW / AWB / PUSH LOCK / MANUAL / 3200K / 6300K / ANTI CR			
WDR ; BLC	WDR / BLC / OFF			
High Light Compensation	ON / OFF / AUTO			
Flickerless	ON / OFF			
Dynamic Noise Reduction	3D / 2D			
Sense Up	AUTO (Limit x2~x512) / OFF			
Digital Image Stabilizer	ON / OFF			
Language	ENGLISH / TRADITIONAL CHINESE / SIMPLIFIED CHINESE			
E-Zoom	x1~x256, Pan / Tilt Adjustable			
Motion Detection ; Privacy	ON / OFF (24x16 Zones, Alarm) ; ON / OFF (15 Zones Programmable, Quadrangle Mosaic)			
Camera Control Interface	RS485 Interface OSD Control by Pelco-D, Pelco P			
Automatic IRIS ; Connector	VIDEO / DC ; D4 IRIS Jack			
Lens Mount	CS / C mount (With Adaptor Ring)			
Lens, Angle of View (H)	Lens Option: Please See the Page of Lens Series			
Water Resistance	NA			
Max. Breaking Strength	NA			
Power Supply ; Consumption	12Vdc/24Vac (10.8~39Vdc/24Vac) ; 2W			
Operation ; Storage Temp.	-10°C~50°C ; -20°C~60°C			
Operation ; Storage Humidity	Maximum: RH80% ; RH90%			
Dimensions	67(W)x56(H)x120(L)mm			
Net Weight	350g			
Accessories Option	Lens:SHV-IR2812DAI, SHV-IR3085DAI, SHV-IR7550DAI			

\*Specifications are unfixed and do not apply to customized projects. 121120

# Hyper Wide Dynamic Dome Camera (Effio WDR)

MTC-WD213EF  
MTC-WD213MEF

MTC-WD213EF, MTC-WD213MEF



## FEATURES

Mechanical IR Cut Filter  
MTC-WD213MEF

3-Axis Gimbal Mechanism  
Indoor, Plastic



Light Sensor  
MTC-WD213MEF

**Sony Effio WDR  
700TVL**

Option:



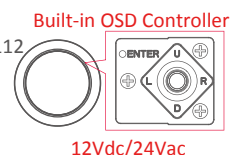
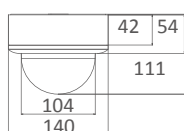
MTB-201  
Wall Mount



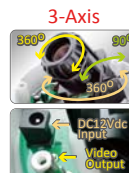
MTB-504  
Ceiling Mount

## MTC-WD213EF, MTC-WD213MEF

- ◆1/3" Hyper Wide Dynamic Color Camera (Sony Effio WDR)
- ◆Color:680TVL, B/W:700TVL
- ◆Color:0.03Lux@F1.2, B/W:0.01Lux@F1.2, Sense-up:0.0001Lux@F1.2
- ◆Powerful 512X WDR (54dB)
- ◆Multi-Language OSD Control
- ◆High Light Compensation (HLC)
- ◆2D/3D Noise Reduction
- ◆Sense Up (512x) Functions
- ◆Digital Image Stabilizer (DIS)
- ◆E-zoom Function (1~256x)
- ◆Advanced Motion Detection Function
- ◆Quadrangle Mosaic Privacy Mask
- ◆Built-in Varifocal Lens & Unique 3-Axis Gimbal Mechanism
- ◆Intelligent Light Sensor Control to Prevent Color or B/W Hunting (MTC-WD213MEF)



12Vdc/24Vac



Dual Voltage

Tol:±0.5 Unit:mm

## SPECIFICATIONS

	MTC-WD213EF		MTC-WD213MEF	
	PAL	NTSC	PAL	NTSC
TV System	PAL	NTSC	PAL	NTSC
Image Sensor	1/3" Sony 960H Super HAD CCD II		1/3" Sony 960H EXview HAD CCD II	
Number of Total Pixels	1020(H)x596(V)		1020(H)x596(V)	
Resolution ; DSP	Color:680TVL, B/W:700TVL ; Sony Effio WDR			
Minimum Illumination	Color:0.03Lux@F1.2, B/W:0.01Lux@F1.2, 0.005Lux@F1.2 (with ICR), Sense-up:0.0001Lux@F1.2			
Wide Dynamic Range	512X Normal Camera (54dB)			
Video Output	1.0Vp-p Composite, 75Ω (BNC)			
Signal to Noise Ratio (S/N)	More than 55dB (AGC off)			
Gamma Correction	0.45			
Mechanical IR Cut Filter (ICR)	NA		Automatically Switches (Switching Lux Level can be adjusted)	
IR LED ; Working Distance	NA		Compatible with Infrared Illuminator	
Menu	OSD Control			
Title	TITLE (LOCATION)			
Synchronizing System	INTERNAL / LINE LOCK (AC Version Only)			
Digital Day&Night Mode	COLOR / B&W / AUTO			
Electronic Shutter	AUTO (1/50(60)~1/100,000 sec.) / MANUAL: 1/50(60), FL 1/120(100), 1/200, 1/250, 1/300, 1/350, 1/400, 1/450, 1/500, 1/600, 1/750, 1/1,000, 1/1,500,1/2,000, 1/3,000, 1/4,000, 1/10,000, 1/30,000, 1/60,000, 1/100,000 sec.			
Automatic Gain Control	0~200 Levels (Adjustable Level Settings)			
White Balance	ATW / AWB / PUSH LOCK / MANUAL / 3200K / 6300K / ANTI CR			
WDR ; BLC	WDR / BLC / OFF			
High Light Compensation	ON / OFF / AUTO			
Flickerless	ON / OFF			
Dynamic Noise Reduction	3D / 2D			
Sense Up	AUTO (Limit x2~x512) / OFF			
Digital Image Stabilizer	ON / OFF			
Language	ENGLISH / TRADITIONAL CHINESE / SIMPLIFIED CHINESE			
E-Zoom	x1~x256, Pan / Tilt Adjustable			
Motion Detection ; Privacy	ON / OFF (24x16 Zones) ; ON / OFF (15 Zones Programmable, Quadrangle Mosaic)			
Camera Control Interface	NA			
Automatic IRIS ; Connector	DC			
Lens Mount	Built-in DC Auto IRIS Lens			
Lens, Angle of View (H)	f2.8~10.5mm/F1.2 Aspherical Auto IRIS Lens/101.8~27.4°, Option:f2.5~6.0mm/F1.3 Aspherical Auto IRIS Lens/108.2~47.6°			
Water Resistance	NA			
Max. Breaking Strength	NA			
Power Supply ; Consumption	12Vdc/24Vac (10.8~39Vdc/24Vac) ; 2.0W			
Operation ; Storage Temp.	-10°C~50°C ; -20°C~60°C			
Operation ; Storage Humidity	Maximum: RH80% ; RH90%			
Dimensions	140(DIA)x112(H)mm			
Net Weight	500g			
Accessories Option	Wall Bracket:MTB-201 ; Ceiling Bracket:MTB-504			

\*Specifications are unfixd and do not apply to customized projects. 121121

## Hyper Wide Dynamic Dome Camera (Effio WDR)

MTC-WD212EF  
MTC-WD212MEF

MTC-WD212EF, MTC-WD212MEF



## FEATURES

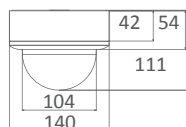
Mechanical IR Cut Filter  
MTC-WD212MEF3-Axis Gimbal Mechanism  
Indoor, Plastic

Option:

MTB-201  
Wall MountMTB-504  
Ceiling MountMTB-504  
Ceiling Mount

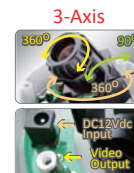
## MTC-WD212EF, MTC-WD212MEF

- ◆1/3" Hyper Wide Dynamic Color Camera (Sony Effio WDR)
- ◆Color:610TVL, B/W:630TVL
- ◆Color:0.03Lux@F1.2, B/W:0.01Lux@F1.2, Sense-up:0.0001Lux@F1.2
- ◆Powerful 256X WDR
- ◆Multi-Language OSD Control
- ◆High Light Compensation (HLC)
- ◆2D/3D Noise Reduction
- ◆Sense Up (512x) Functions
- ◆Digital Image Stabilizer (DIS)
- ◆E-zoom Function (1~256x)
- ◆Advanced Motion Detection Function
- ◆Quadrangle Mosaic Privacy Mask
- ◆Built-in Varifocal Lens & Unique 3-Axis Gimbal Mechanism
- ◆Intelligent Light Sensor Control to Prevent Color or B/W Hunting (MTC-WD212MEF)

Light Sensor  
MTC-WD212MEFSony Effio WDR  
630TVL

Built-in OSD Controller

12Vdc/24Vac



Dual Voltage

Tol:±0.5 Unit:mm

## SPECIFICATIONS

	MTC-WD212EF		MTC-WD212MEF	
	PAL	NTSC	PAL	NTSC
TV System	PAL	NTSC	PAL	NTSC
Image Sensor	1/3" 760H High Resolution CCD			
Number of Total Pixels	795(H)x596(V)	811(H)x507(V)	795(H)x596(V)	811(H)x507(V)
Resolution ; DSP	Color:610TVL, B/W:630TVL ; Sony Effio WDR			
Minimum Illumination	Color:0.03Lux@F1.2, B/W:0.01Lux@F1.2, 0.005Lux@F1.2 (with ICR), Sense-up:0.0001Lux@F1.2			
Wide Dynamic Range	256X Normal Camera			
Video Output	1.0Vp-p Composite, 75Ω (BNC)			
Signal to Noise Ratio (S/N)	More than 55dB (AGC off)			
Gamma Correction	0.45			
Mechanical IR Cut Filter (ICR)	NA		Automatically Switches (Switching Lux Level can be adjusted)	
IR LED ; Working Distance	NA		Compatible with Infrared Illuminator	
Menu	OSD Control			
Title	TITLE (LOCATION)			
Synchronizing System	INTERNAL / LINE LOCK (AC Version Only)			
Digital Day&Night Mode	COLOR / B&W / AUTO			
Electronic Shutter	AUTO (1/50(60)~1/100,000 sec.) / MANUAL: 1/50(60), FL 1/120(100), 1/200, 1/250, 1/300, 1/350, 1/400, 1/450, 1/500, 1/600, 1/750, 1/1,000, 1/1,500, 1/2,000, 1/3,000, 1/4,000, 1/10,000, 1/30,000, 1/60,000, 1/100,000 sec.			
Automatic Gain Control	0~200 Levels (Adjustable Level Settings)			
White Balance	ATW / AWB / PUSH LOCK / MANUAL / 3200K / 6300K / ANTI CR			
WDR ; BLC	WDR / BLC / OFF			
High Light Compensation	ON / OFF / AUTO			
Flickerless	ON / OFF			
Dynamic Noise Reduction	3D / 2D			
Sense Up	AUTO (Limit x2~x512) / OFF			
Digital Image Stabilizer	ON / OFF			
Language	ENGLISH / TRADITIONAL CHINESE / SIMPLIFIED CHINESE			
E-Zoom	x1~x256, Pan / Tilt Adjustable			
Motion Detection ; Privacy	ON / OFF (24x16 Zones) ; ON / OFF (15 Zones Programmable, Quadrangle Mosaic)			
Camera Control Interface	NA			
Automatic IRIS ; Connector	DC			
Lens Mount	Built-in DC Auto IRIS Lens			
Lens, Angle of View (H)	f2.8~10.5mm/F1.2 Aspherical Auto IRIS Lens/101.8~27.4°, Option:f2.5~6.0mm/F1.3 Aspherical Auto IRIS Lens/108.2~47.6°			
Water Resistance	NA			
Max. Breaking Strength	NA			
Power Supply ; Consumption	12Vdc/24Vac (10.8~39Vdc/24Vac) ; 2.0W			
Operation ; Storage Temp.	-10°C~50°C ; -20°C~60°C			
Operation ; Storage Humidity	Maximum: RH80% ; RH90%			
Dimensions	140(DIA)x112(H)mm			
Net Weight	500g			
Accessories Option	Wall Bracket:MTB-201 ; Ceiling Bracket:MTB-504			

\*Specifications are unfixd and do not apply to customized projects. 121123

# Hyper WD Vandalproof Camera (Effio WDR)

MTC-WD513EF  
MTC-WD513MEF

MTC-WD513EF, MTC-WD513MEF



## FEATURES

Mechanical IR Cut Filter  
MTC-WD513MEF

3-Axis Gimbal Mechanism

Option:



Light Sensor  
MTC-WD513MEF

Sony Effio WDR  
700TVL



MTB-413  
Wall Mount



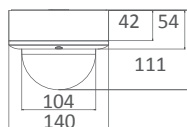
MTB-504  
Ceiling Mount



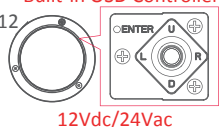
S-FZS26  
Thread Metal Flexible  
Conduit Fittings

## MTC-WD513EF, MTC-WD513MEF

- ◆ 1/3" Hyper Wide Dynamic Color Camera (Sony Effio WDR)
- ◆ Color:680TVL, B/W:700TVL
- ◆ Color:0.03Lux@F1.2, B/W:0.01Lux@F1.2, Sense-up:0.0001Lux@F1.2
- ◆ Powerful 512X WDR (54dB)
- ◆ Multi-Language OSD Control
- ◆ High Light Compensation (HLC)
- ◆ 2D/3D Noise Reduction
- ◆ Sense Up (512x) Functions
- ◆ Digital Image Stabilizer (DIS)
- ◆ E-zoom Function (1~256x)
- ◆ Advanced Motion Detection Function
- ◆ Quadrangle Mosaic Privacy Mask
- ◆ Built-in Varifocal Lens & Unique 3-Axis Gimbal Mechanism
- ◆ Water Resistance: IP66 ; Breaking Strength: 656.1Kgf
- ◆ Intelligent Light Sensor Control to Prevent Color or B/W Hunting (MTC-WD513MEF)



Built-in OSD Controller



12Vdc/24Vac

Dual Voltage



Option:Heater  
Tol:±0.5 Unit:mm

## SPECIFICATIONS

	MTC-WD513EF		MTC-WD513MEF	
	PAL	NTSC	PAL	NTSC
TV System	PAL	NTSC	PAL	NTSC
Image Sensor	1/3" Sony 960H Super HAD CCD II		1/3" Sony 960H EXview HAD CCD II	
Number of Total Pixels	1020(H)x596(V)	1020(H)x508(V)	1020(H)x596(V)	1020(H)x508(V)
Resolution ; DSP	Color:680TVL, B/W:700TVL ; Sony Effio WDR			
Minimum Illumination	Color:0.03Lux@F1.2, B/W:0.01Lux@F1.2, 0.005Lux@F1.2 (with ICR), Sense-up:0.0001Lux@F1.2			
Wide Dynamic Range	512X Normal Camera (54dB)			
Video Output	1.0Vp-p Composite, 75Ω (BNC)			
Signal to Noise Ratio (S/N)	More than 55dB (AGC off)			
Gamma Correction	0.45			
Mechanical IR Cut Filter (ICR)	NA		Automatically Switches (Switching Lux Level can be adjusted)	
IR LED ; Working Distance	NA		Compatible with Infrared Illuminator	
Menu	OSD Control			
Title	TITLE (LOCATION)			
Synchronizing System	INTERNAL / LINE LOCK (AC Version Only)			
Digital Day&Night Mode	COLOR / B&W / AUTO			
Electronic Shutter	AUTO (1/50(60)~1/100,000 sec.) / MANUAL: 1/50(60), FL 1/120(100), 1/200, 1/250, 1/300, 1/350, 1/400, 1/450, 1/500, 1/600, 1/750, 1/1,000, 1/1,500,1/2,000, 1/3,000, 1/4,000, 1/10,000, 1/30,000, 1/60,000, 1/100,000 sec.			
Automatic Gain Control	0~200 Levels (Adjustable Level Settings)			
White Balance	ATW / AWB / PUSH LOCK / MANUAL / 3200K / 6300K / ANTI CR			
WDR ; BLC	WDR / BLC / OFF			
High Light Compensation	ON / OFF / AUTO			
Flickerless	ON / OFF			
Dynamic Noise Reduction	3D / 2D			
Sense Up	AUTO (Limit x2~x512) / OFF			
Digital Image Stabilizer	ON / OFF			
Language	ENGLISH / TRADITIONAL CHINESE / SIMPLIFIED CHINESE			
E-Zoom	x1~x256, Pan / Tilt Adjustable			
Motion Detection ; Privacy	ON / OFF (24x16 Zones) ; ON / OFF (15 Zones Programmable, Quadrangle Mosaic)			
Camera Control Interface	NA			
Automatic IRIS ; Connector	DC			
Lens Mount	Built-in DC Auto IRIS Lens			
Lens, Angle of View (H)	f2.8~10.5mm/F1.2 Aspherical Auto IRIS Lens/101.8°~27.4°			
Water Resistance	IP66			
Max. Breaking Strength	656.1 Kgf			
Power Supply ; Consumption	12Vdc/24Vac (10.8~39Vdc/24Vac) ; 2W, Heater adds max.11W			
Operation ; Storage Temp.	-10°C~50°C ; -20°C~60°C			
Operation ; Storage Humidity	Maximum: RH80% ; RH90%			
Dimensions	140(DIA)x112(H)mm			
Net Weight	950g			
Accessories Option	Wall Bracket:MTB-413 ; Ceiling Bracket:MTB-504 ; Thread Metal Flexible Conduit Fittings-S-FZS26			

\*Specifications are unfixed and do not apply to customized projects. 121121

# Hyper Wide Dynamic IR Dome Camera (Effio WDR)

MTC-WDL213EF

## MTC-WDL213EF



### FEATURES



Mechanical IR Cut Filter

3-Axis Gimbal Mechanism  
Indoor, Plastic

Option:



Sony Effio WDR  
700TVL

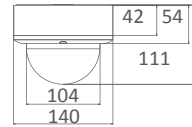


MTB-201  
Wall Mount

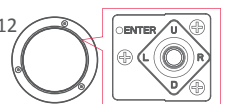
MTB-504  
Ceiling Mount

## MTC-WDL213EF

- ◆ 1/3" Hyper Wide Dynamic Infrared Camera (Sony Effio WDR)
- ◆ Color:680TVL, B/W:700TVL, 0.00Lux (IR LEDs on at 2 Lux)
- ◆ Powerful 512X WDR (54dB)
- ◆ Multi-Language OSD Control
- ◆ High Light Compensation (HLC)
- ◆ 2D/3D Noise Reduction
- ◆ Sense Up (512x) Functions
- ◆ Digital Image Stabilizer (DIS)
- ◆ E-zoom Function (1~256x)
- ◆ Advanced Motion Detection Function
- ◆ Quadrangle Mosaic Privacy Mask
- ◆ Built-in Varifocal Lens & Unique 3-Axis Gimbal Mechanism
- ◆ Intelligent Light Sensor Control to Prevent Color or B/W Hunting



Built-in OSD Controller



12Vdc/24Vac



Dual Voltage

Tol:±0.5 Unit:mm

### SPECIFICATIONS

		MTC-WDL213EF	
		PAL	NTSC
TV System		PAL	NTSC
Image Sensor		1/3" Sony 960H Super HAD CCD II	
Number of Total Pixels		1020(H)x596(V)	1020(H)x508(V)
Resolution ; DSP		Color:680TVL, B/W:700TVL ; Sony Effio WDR	
Minimum Illumination		0.00Lux	
Wide Dynamic Range		512X Normal Camera (54dB)	
Video Output		1.0Vp-p Composite, 75Ω (BNC)	
Signal to Noise Ratio (S/N)		More than 55dB (AGC off)	
Gamma Correction		0.45	
Mechanical IR Cut Filter (ICR)		Automatically Switches (B/W Mode<2Lux, Color Mode>5Lux)	
IR LED ; Working Distance		30 units (IR LEDs on<2Lux, IR LEDs off>5Lux) ; 10~20m	
Menu		OSD Control	
Title		TITLE (LOCATION)	
Synchronizing System		INTERNAL / LINE LOCK (AC Version Only)	
Digital Day&Night Mode		COLOR / B&W / AUTO	
Electronic Shutter		AUTO (1/50(60)~1/100,000 sec.) / MANUAL: 1/50(60), FL 1/120(100), 1/200, 1/250, 1/300, 1/350, 1/400, 1/450, 1/500, 1/600, 1/750, 1/1,000, 1/1,500, 1/2,000, 1/3,000, 1/4,000, 1/10,000, 1/30,000, 1/60,000, 1/100,000 sec.	
Automatic Gain Control		0~200 Levels (Adjustable Level Settings)	
White Balance		ATW / AWB / PUSH LOCK / MANUAL / 3200K / 6300K / ANTI CR	
WDR ; BLC		WDR / BLC / OFF	
High Light Compensation		ON / OFF / AUTO	
Flickerless		ON / OFF	
Dynamic Noise Reduction		3D / 2D	
Sense Up		AUTO (Limit x2~x512) / OFF	
Digital Image Stabilizer		ON / OFF	
Language		ENGLISH / TRADITIONAL CHINESE / SIMPLIFIED CHINESE	
E-Zoom		x1~x256, Pan / Tilt Adjustable	
Motion Detection ; Privacy		ON / OFF (24x16 Zones) ; ON / OFF (15 Zones Programmable, Quadrangle Mosaic)	
Camera Control Interface		NA	
Automatic IRIS ; Connector		DC	
Lens Mount		Built-in DC Auto IRIS Lens	
Lens, Angle of View (H)		f2.8mm~10mm/F1.2 Aspherical Auto IRIS Lens/94.6°~28.8°	
Water Resistance		NA	
Max. Breaking Strength		NA	
Power Supply ; Consumption		12Vdc/24Vac (10.8~39Vdc/24Vac) ; IR on:6.0W, IR off:3.5W	
Operation ; Storage Temp.		-10°C~50°C ; -20°C~60°C	
Operation ; Storage Humidity		Maximum: RH80% ; RH90%	
Dimensions		140(DIA)x112(H)mm	
Net Weight		500g	
Accessories Option		Wall Bracket:MTB-201 ; Ceiling Bracket:MTB-504	

\*Specifications are unfixed and do not apply to customized projects. 121123

## Hyper WD IR Vandalproof Camera (Effio WDR)

MTC-WDL513EF

MTC-WDL513EF



## FEATURES



Mechanical IR Cut Filter

3-Axis Gimbal Mechanism

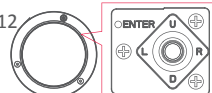
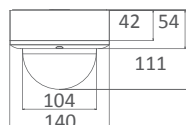
Option:

Sony Effio WDR  
700TVLMTB-413  
Wall MountMTB-504  
Ceiling MountS-FZS26  
Thread Metal Flexible  
Conduit Fittings

## MTC-WDL513EF

- ◆1/3" Hyper Wide Dynamic Infrared Camera (Sony Effio WDR)
- ◆Color:680TVL, B/W:700TVL, 0.00Lux (IR LEDs on at 2 Lux)
- ◆Powerful 512X WDR (54dB)
- ◆Multi-Language OSD Control
- ◆High Light Compensation (HLC)
- ◆2D/3D Noise Reduction
- ◆Sense Up (512x) Functions
- ◆Digital Image Stabilizer (DIS)
- ◆E-zoom Function (1~256x)
- ◆Advanced Motion Detection Function
- ◆Quadrangle Mosaic Privacy Mask
- ◆Built-in Varifocal Lens & Unique 3-Axis Gimbal Mechanism
- ◆Water Resistance: IP66 ; Breaking Strength: 656.1Kgf
- ◆Intelligent Light Sensor Control to Prevent Color or B/W Hunting

Built-in OSD Controller



12Vdc/24Vac

Dual Voltage



Option:Heater

Tol:±0.5 Unit:mm

## SPECIFICATIONS

		MTC-WDL513EF	
TV System	PAL		NTSC
Image Sensor	1/3" Sony 960H Super HAD CCD II		
Number of Total Pixels	1020(H)x596(V)		1020(H)x508(V)
Resolution ; DSP	Color:680TVL, B/W:700TVL ; Sony Effio WDR		
Minimum Illumination	0.00Lux		
Wide Dynamic Range	512X Normal Camera (54dB)		
Video Output	1.0Vp-p Composite, 75Ω (BNC)		
Signal to Noise Ratio (S/N)	More than 55dB (AGC off)		
Gamma Correction	0.45		
Mechanical IR Cut Filter (ICR)	Automatically Switches (B/W Mode<2Lux, Color Mode>5Lux)		
IR LED ; Working Distance	30 units (IR LEDs on<2Lux, IR LEDs off>5Lux) ; 10~20m		
Menu	OSD Control		
Title	TITLE (LOCATION)		
Synchronizing System	INTERNAL / LINE LOCK (AC Version Only)		
Digital Day&Night Mode	COLOR / B&W / AUTO		
Electronic Shutter	AUTO (1/50(60)~1/100,000 sec.) / MANUAL: 1/50(60), FL 1/120(100), 1/200, 1/250, 1/300, 1/350, 1/400, 1/450, 1/500, 1/600, 1/750, 1/1,000, 1/1,500, 1/2,000, 1/3,000, 1/4,000, 1/10,000, 1/30,000, 1/60,000, 1/100,000 sec.		
Automatic Gain Control	0~200 Levels (Adjustable Level Settings)		
White Balance	ATW / AWB / PUSH LOCK / MANUAL / 3200K / 6300K / ANTI CR		
WDR ; BLC	WDR / BLC / OFF		
High Light Compensation	ON / OFF / AUTO		
Flickerless	ON / OFF		
Dynamic Noise Reduction	3D / 2D		
Sense Up	AUTO (Limit x2~x512) / OFF		
Digital Image Stabilizer	ON / OFF		
Language	ENGLISH / TRADITIONAL CHINESE / SIMPLIFIED CHINESE		
E-Zoom	x1~x256, Pan / Tilt Adjustable		
Motion Detection ; Privacy	ON / OFF (24x16 Zones) ; ON / OFF (15 Zones Programmable, Quadrangle Mosaic)		
Camera Control Interface	NA		
Automatic IRIS ; Connector	DC		
Lens Mount	Built-in DC Auto IRIS Lens		
Lens, Angle of View (H)	f2.8mm~10mm/F1.2 Aspherical Auto IRIS Lens/94.6°~28.8°		
Water Resistance	IP66		
Max. Breaking Strength	656.1 Kgf		
Power Supply ; Consumption	12Vdc/24Vac (10.8~39Vdc/24Vac) ; IR on:6.0W, IR off:3.5W, Heater adds max.11W		
Operation ; Storage Temp.	-10°C~50°C ; -20°C~60°C		
Operation ; Storage Humidity	Maximum: RH80% ; RH90%		
Dimensions	140(DIA)x111(H)mm		
Net Weight	950g		
Accessories Option	Wall Bracket:MTB-413 ; Ceiling Bracket:MTB-504 ; Thread Metal Flexible Conduit Fittings-S-FZS26		

\*Specifications are unfixd and do not apply to customized projects. 121121

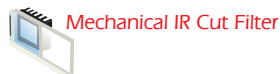
## Hyper WD IR Bullet Camera (Effio WDR)

MTC-WDL613EF



MTC-WDL613EF

## FEATURES



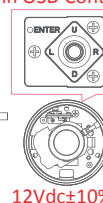
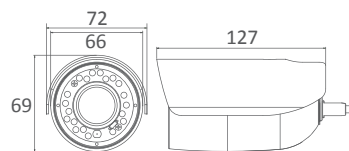
Mechanical IR Cut Filter



## MTC-WDL613EF

- ◆ 1/3" Hyper Wide Dynamic Infrared Camera (Sony Effio WDR)
- ◆ Color:680TVL, B/W:700TVL, 0.00Lux (IR LEDs on at 2 Lux)
- ◆ Powerful 512X WDR (54dB)
- ◆ Multi-Language OSD Control
- ◆ High Light Compensation (HLC)
- ◆ 2D/3D Noise Reduction
- ◆ Sense Up (512x) Functions
- ◆ Digital Image Stabilizer (DIS)
- ◆ E-zoom Function (1~256x)
- ◆ Advanced Motion Detection Function
- ◆ Quadrangle Mosaic Privacy Mask
- ◆ Built-in Varifocal Lens
- ◆ Water Resistance: IP67
- ◆ Intelligent Light Sensor Control to Prevent Color or B/W Hunting

Built-in OSD Controller Wall Mount



12Vdc±10%



Light Module

Tol:±0.5 Unit:mm

## SPECIFICATIONS

		MTC-WDL613EF	
		PAL	NTSC
TV System		PAL	NTSC
Image Sensor		1/3" Sony 960H Super HAD CCD II	
Number of Total Pixels		1020(H)x596(V)	1020(H)x508(V)
Resolution ; DSP		Color:680TVL, B/W:700TVL ; Sony Effio WDR	
Minimum Illumination		0.00Lux	
Wide Dynamic Range		512X Normal Camera (54dB)	
Video Output		1.0Vp-p Composite, 75Ω (BNC)	
Signal to Noise Ratio (S/N)		More than 55dB (AGC off)	
Gamma Correction		0.45	
Mechanical IR Cut Filter (ICR)		Automatically Switches (B/W Mode<2Lux, Color Mode>5Lux)	
IR LED ; Working Distance		20 units (IR LEDs on<2Lux, IR LEDs off>5Lux) ; 15~25m	
Menu		OSD Control	
Title		TITLE (LOCATION)	
Synchronizing System		INTERNAL	
Digital Day&Night Mode		COLOR / B&W / AUTO	
Electronic Shutter		AUTO (1/50(60)~1/100,000 sec.) / MANUAL: 1/50(60), FL 1/120(100), 1/200, 1/250, 1/300, 1/350, 1/400, 1/450, 1/500, 1/600, 1/750, 1/1,000, 1/1,500, 1/2,000, 1/3,000, 1/4,000, 1/10,000, 1/30,000, 1/60,000, 1/100,000 sec.	
Automatic Gain Control		0~200 Levels (Adjustable Level Settings)	
White Balance		ATW / AWB / PUSH LOCK / MANUAL / 3200K / 6300K / ANTI CR	
WDR ; BLC		WDR / BLC / OFF	
High Light Compensation		ON / OFF / AUTO	
Flickerless		ON / OFF	
Dynamic Noise Reduction		3D / 2D	
Sense Up		AUTO (Limit x2~x512) / OFF	
Digital Image Stabilizer		ON / OFF	
Language		ENGLISH / TRADITIONAL CHINESE / SIMPLIFIED CHINESE	
E-Zoom		x1~x256, Pan / Tilt Adjustable	
Motion Detection ; Privacy		ON / OFF (24x16 Zones) ; ON / OFF (15 Zones Programmable, Quadrangle Mosaic)	
Camera Control Interface		NA	
Automatic IRIS ; Connector		DC	
Lens Mount		Built-in DC Auto IRIS Lens	
Lens, Angle of View (H)		f2.8mm~10.5mm/F1.2 Aspherical Auto IRIS Lens/101.8°~27.4°	
Water Resistance		IP67	
Max. Breaking Strength		NA	
Power Supply ; Consumption		12Vdc±10% ; IR on:6.0W, IR off:3.5W	
Operation ; Storage Temp.		-10°C~50°C ; -20°C~60°C	
Operation ; Storage Humidity		Maximum: RH80% ; RH90%	
Dimensions		69(DIA)x127(L)mm	
Net Weight		400g	
Accessories Option		Bracket:Standard with MTB-206	

\*Specifications are unfixed and do not apply to customized projects. 121121

# Hyper WD Outdoor IR Camera (Effio WDR)

MTC-WDL713EF

MTC-WDL713EF



## FEATURES



Mechanical IR Cut Filter (ICR)

**Preliminary**

3-axis Cable Management



Sony Effio WDR  
700TVL

Option:



MTB-414S

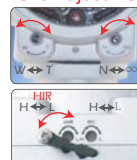


Pole Mount

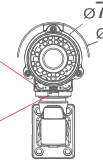
## MTC-WDL713EF

- ◆ 1/3" Hyper Wide Dynamic Infrared Camera (Sony Effio WDR)
- ◆ Color:680TVL, B/W:700TVL, 0.00Lux (IR LEDs on at 2 Lux)
- ◆ Powerful 512X WDR (54dB)
- ◆ Multi-Language OSD Control
- ◆ High Light Compensation (HLC)
- ◆ 2D/3D Noise Reduction ; Sense Up (512x) Functions
- ◆ Digital Image Stabilizer (DIS)
- ◆ E-zoom Function (1~256x)
- ◆ Advanced Motion Detection Function
- ◆ Quadrangle Mosaic Privacy Mask
- ◆ Built-in Varifocal Lens & 3-axis Cable Management Bracket
- ◆ Water Resistance: IP66
- ◆ Intelligent Light Sensor Control to Prevent Color or B/W Hunting

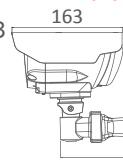
External Varifocal Lens Adjustment



HIR adjustments



12Vdc±10%



Option: Dual Voltage (12Vdc/24Vac)

Light Module Built-in 6pcs 6x6mm HP LED



Cable with OSD button

Tol:±0.5 Unit:mm

## SPECIFICATIONS

		MTC-WDL713EF	
		PAL	NTSC
TV System		PAL	NTSC
Image Sensor		1/3" Sony 960H EXview HAD CCD II	
Number of Total Pixels		1020(H)x596(V)	1020(H)x508(V)
Resolution ; DSP		Color:680TVL, B/W:700TVL ; Sony Effio WDR	
Minimum Illumination		0.00Lux	
Wide Dynamic Range		512X Normal Camera (54dB)	
Video Output		1.0Vp-p Composite, 75Ω (BNC)	
Signal to Noise Ratio (S/N)		More than 55dB (AGC off)	
Gamma Correction		0.45	
Mechanical IR Cut Filter (ICR)		Automatically Switches (B/W Mode<2Lux, Color Mode>5Lux)	
IR LED ; Working Distance		30 units (6 Pcs HP Reflection LEDs) (IR LEDs on<2Lux, IR LEDs off>5Lux) ; 25~35m	
Menu		OSD Control	
Title		TITLE (LOCATION)	
Synchronizing System		INTERNAL / LINE LOCK (AC Version Only)	
Digital Day&Night Mode		COLOR / B&W / AUTO	
Electronic Shutter		AUTO (1/50(60)~1/100,000 sec.) / MANUAL: 1/50(60), FL 1/120(100), 1/200, 1/250, 1/300, 1/350, 1/400, 1/450, 1/500, 1/600, 1/750, 1/1,000, 1/1,500, 1/2,000, 1/3,000, 1/4,000, 1/10,000, 1/30,000, 1/60,000, 1/100,000 sec.	
Automatic Gain Control		0~200 Levels (Adjustable Level Settings)	
White Balance		ATW / AWB / PUSH LOCK / MANUAL / 3200K / 6300K / ANTI CR	
WDR ; BLC		WDR / BLC / OFF	
High Light Compensation		ON / OFF / AUTO	
Flickerless		ON / OFF	
Dynamic Noise Reduction		3D / 2D	
Sense Up		AUTO (Limit x2~x512) / OFF	
Digital Image Stabilizer		ON / OFF	
Language		ENGLISH / TRADITIONAL CHINESE / SIMPLIFIED CHINESE	
E-Zoom		x1~x256, Pan / Tilt Adjustable	
Motion Detection ; Privacy		ON / OFF (24x16 Zones) ; ON / OFF (15 Zones Programmable, Quadrangle Mosaic)	
Camera Control Interface		NA	
Automatic IRIS ; Connector		DC	
Lens Mount		Built-in DC Auto IRIS Lens	
Lens, Angle of View (H)		f3.8mm~9.5mm/F1.2 Aspherical D/N Lens/74.2°~30.0°	
Water Resistance		IP66	
Max. Breaking Strength		NA	
Power Supply ; Consumption		Standard:12Vdc±10%, Option:12Vdc/24Vac (10.8~39Vdc/24Vac); IR on:6.0W, IR off:3.5W	
Operation ; Storage Temp.		-10°C~50°C ; -20°C~60°C	
Operation ; Storage Humidity		Maximum: RH80% ; RH90%	
Dimensions		93(DIA)x163(D)mm	
Net Weight		1,000g	
Accessories Option		Pole Mount:MTB-414S	

\*Specifications are unfixd and do not apply to customized projects. 121121

