SONY

HDC-P43

4K Multi-Purpose Camera





Never Miss That Vital Live Moment with Sony SUPER MOTION Compact POV Camera

Sports such as athletics and ball games often have a vital moment that decides the game. Similarly, rock concerts and other live music events can have a particular moment perhaps an on-stage gesture or a high note that attracts the audience. Everyone waits for that special moment and can be deeply moved by it. That's why live-event creators must respond to expectations and never miss that vital moment.

The Sony HDC-P43 SUPER MOTION Compact POV Camera can capture the image of that moment impressively in 4K⁻¹ resolution and at a high frame rate (HFR). ²

With the same three 2/3-inch CMOS sensors and circuitry design as the industry-acclaimed HDC-4300 4K/HD studio camera, this compact POV camera matches the performance levels and picture quality of the HDC-4300. Furthermore, the HDC-P43 incorporates Sony's S-Log3 gamma curve, and supports HDR (high dynamic range) image capturing with the ITU-R BT.2020 color space. HDR production brings great benefit to live production; it make live images immersive and realistic.

Since the HDC-P43 has the same camera characteristics and qualities as the HDC-4300 studio camera, system integration is optimized. You can use these cameras to unleash the best performance and efficiency in color matching applications. Furthermore, in combination with a baseband processor unit (BPU), this compact camera is flexible enough to expand its application styles from an individual camera system to a crane or robotic system.

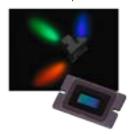
- *1 The 4K upgrade requires the SZC-4001 software option.
- *2 The HFR upgrade requires the SZC-4002 software option; it supports 2x at 4K and max. 8x at HD.

SUPER MOTION

Superb 4K Capability*1 with Wide Dynamic Range and Wide Color Space

The HDC-P43 captures 4K images and incorporates Sony 2/3-inch 4K CMOS imagers with ultra-precision alignment technology, which mounts the chips to a newly developed prism. This is the same imager device and optical system as used in the industry-leading HDC-4300 system camera. Also this optical system supports the wide ITU-R BT.2020 color gamut, enabling more precise color reproduction in both HDR and SDR (standard dynamic range) productions including live operation.

*1 The optional SZC-4001 4k upgrade software license is required.



4K 2x and HD 8x Super Slow Motion*1

To capture 4K images up to 2x, and HD images up to 8x super slow motion requires an optional software upgrade.

This provides an amazing maximum frame rate, allowing you to create sensational super-slow-motion sequences of key moments in any game or other live event. Now you can offer audiences unprecedented views of subtle body movements, muscle action, and even sweat sprays – things that are normally invisible to viewers.

*1 The optional SZC-4002 HFR software license is required. This software is installed in the BPU-4000/BPU-4500 and HDCU-4300. See the next page for details. For 4K format operation, optional SZC-4001 4K software is separately required.



Smooth and Easy Migration from HD to 4K

This powerful system camera is designed to fit into Sony's growing 4K live production environment. With optional software installation⁻¹, the HDC-P43 enables 4K capture for multiple 4K and HD outputs, working directly with the BPU-4000 or BPU-4500 baseband processor unit and the HDCU-4300 camera control unit items that are already familiar 4K equipment for the HDC-4300 studio camera.

*1 Select the SZC-4001 software option to enable 4K capture.

Direct Installation of B4-Mount Lenses

Thanks to the 2/3-inch camera mount, the HDC-P43 works directly with B4 lenses. Support for both HD and 4K lenses means that, you can use B4-mount high-power large lenses to capture sports scenes with substantial depth of field.

4K Live HDR (High Dynamic Range)

Unlike SDR, the HDR function dramatically improves high-contrast images and offers your audiences vivid image reproduction as if they are watching the game in person at the stadium, without you having to clip out the sunny portion or black out the shadowed area. And HDR mode enables you to deliver far more realistic pictures such as reflections on water and glass, laser lights at music concerts, and clearer details in studio sets than ever before.





SDR image

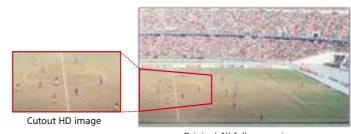
HDR image

* Simulated images

HD Cutouts from 4K Pictures*

Sony's innovative software technology enables a full HD image to be cut out from a 4K picture in real time. Two modes are available: you can select either Zoom & Perspective mode or Simple HD mode. Keeping the camera in a fixed position, any portion of the captured image can be cropped to provide a closeup HD image to viewers as if the camera had been panned. In Zoom & Perspective mode, one portion can be cut out while performing perspective transformation, according to the focal length of the lens. In Simple HD mode, any two HD-sized portions can be cut out at the same time. Sony's cutouts and zooms give viewers a surprisingly clear image while achieving both 4K and HD signal output.

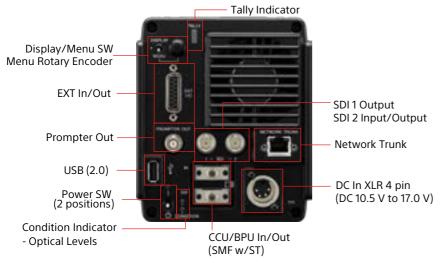
* Requires optional SZC-2001 software for the BPU-4000, BPU-4500, and HDCU-4300.



Original 4K full-source image

Versatile Camera Interfaces

Equipped with a wide range of inputs and outputs via the onboard connector panel, the HDC-P43 conveniently supports 3G-SDI and HD-SDI outputs, two single-mode fiber connections for BPU/CCU, and prompter signal output. Moreover, this camera provides trunk line, and assignable lines on the D-sub 15-pin connector, and USB (2.0).



Video Formats

The following table shows all of the formats that the HDC-P43 supports and includes software options.

The listed formats require available video signals and total system integration with a BPU/ CCIJ

	Frame rate	HFR	Optional software required
4K HFR	119.88p	x2@59.94p	SZC-4001, SZC-4002*
	100p	x2@50p	
4K	59.94p	x1	-SZC-4001,
	50p	x1	
	29.97p	x1	
	25PsF	x1	
	24PsF	x1	
	23.98PsF	x1	

The frame pixel number is as follows (and can be selected at the BPU):

4K = 4096x2160 or 3840x2160 HD = 1920x1080

HD720p and NTSC/PAL are also available at the CCU output stage.

	Frame rate	HFR	Optional software required
HD HFR	479.52p	x8@59.94p*	- SZC-4002
	400p	x8@50p*	
	359.64p	x6@59.94p*	
	300p	x6@50p*	
	239.76p	x4@59.94p	
	200p	x4@50p	
	179.82p	x3@59.94p	
	150p	x3@50p	
	119.88p	x2@59.94p	
	100p	x2@50p	
HD	59.94p	x1	
	50p	x1	
	59.94i	x1	
	50i	x1	
	29.97p	x1	
	25PsF	x1	
	24PsF	x1	
	23.98PsF	x1	

^{*} The HDCU-4300 does not support 4K HFR.

The HDC-P43 also works at 50i/59.94i system frequency at only HD HFR 6x and 8x with the HDCU-4300.

50p/59.94p is available in combination with the BPU-4000/BPU-4500.

4K / HFR Upgrade Options

The HDC-P43 works with the BPU-4000/4500 baseband processor units and the HDCU-4300 camera control unit with direct connection via single mode fiber cable, allowing you to activate 4K, HFR, and HD Cutout with the same optional software keys as the HDC-4300. These capabilities let you add amazing 4K image capture to standard HD outputs and 4K 2x and HD 8x super slow motion as and when you want. All the flexibility and control you demand are right there in a single high-performance platform.

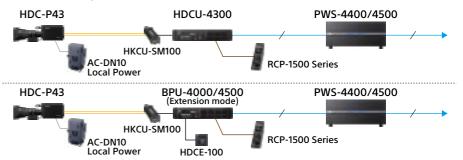
SZC-4001 4K Upgrade Software for HDC-P43

SZC-4002 HFR Upgrade Software for BPU-4000/BPU-4500 or HDCU-4300

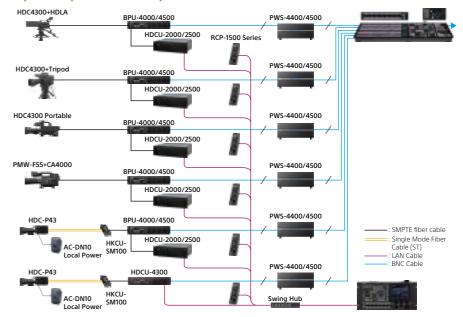
SZC-2001 HD Cutout Software for BPU-4000/BPU-4500 or HDCU-4300

System Configuration

• Standalone Operation



• System Operation with System Cameras



Specifications

Power Requirements	General	
20°C to +45°C -4°F to +113°F -20°C to +60°C -4°F to +140°F -21°C to +60°C -4°F to +140°F -40°F to +140°F to +140°F -40°F to +140°F to +140°F -40°F to +140°F to +140°F to +140°F -40°F to +140°F to +140°	Power Requirements	DC12V, 6.4A (Max.)
Country Coun	Power Consumption	Approx. 40W
20°C to +60°C -4°F to +140°F	Operating Temperature	-20°C to +45°C
The control of the		-4°F to +113°F
19 x 140 x 212 mm		-20°C to +60°C
Dimensions (W x H x D)¹¹ 4 3/4 x 5 5/8 x 8 3/8 inches Mass 2.0 kg (Body only) 4 lb 7 oz Camera Section Pickup Device 2/3-inch type 9.8M pixels CMOS RGB 3-chip Effective Picture Elements 4K²² 4096(H) x 2160(V) Effective Picture Elements 4K²² 4096(H) x 2160(V) Built -in Filters 50 ny 2/3-inch type bayonet mount Lens Mount 50 ny 2/3-inch type bayonet mount Built-in Filters Cc. 4 CROSS, B:3200K, C: 4300K, D: 6300K ND: 1: CLEAR, 2: 1/4ND, 3: 1/8ND, 4: 1/16ND, 5: 1/64ND Servo Filter Control Yes Sensitivity (at 2000 lx, 3200K, 89.9% reflectance) F8.0 (2000 lx, 89.9% reflection) at 4K/59.94p² or 4x HD/59.94p³ Horizontal Resolution 2000 TV lines (at center) in 4K², 5% or higher modulation Distortion not recognizable except lens distortion Input/Output (in EXT I/O 1ch) D-sub 15pin, female (x1) Fiber Input/Output (in EXT I/O 1ch) D-sub 15pin, female (x1) Fiber Input/Output BNC (x1), 1 Vp-p, 75 Ω SDI Output BNC (x1), 1 Vp-p, 75 Ω SDI Output BNC (x1), 1 Vp- (x1) (x1) BNC (x2), 1 Vp- (Storage Temperature	-4°F to +140°F
Mass 4 3/4 x 5 5/8 x 8 3/8 inches All 7 oz Camera Section Pickup Device 2/3-inch type 9.8M pixels CMOS RGB 3-chip 4K²² 4,096(H) x 2160(V) GHD³².3840(H) x 2160(V) HD¹ 1920(H) x 1080(V) Spectrum System F1.4 prism system Lens Mount Sony 2/3-inch type bayonet mount Eens Mount CC: A: CROSS, B:3200K, C: 4300K, D: 6300K ND¹ 1: CLEAR, 2: 1/4ND, 3: 1/8ND, 4: 1/16ND, 5: 1/64ND Servo Filter Control Yes Sensitivity (at 2000 lx, 3200K, 89.9% reflectance) F8.0 (2000 lx, 89.9% reflection) at 4K/59.94p² or 4x HD/59.94p³ Signal-to-noise Ratio -62dB at HD/59.94i Horizontal Resolution 2000 TV lines (at center) in 4K², 5% or higher modulation Distortion not recognizable except lens distortion Input/Output (in EXT I/O 1ch) D-sub 15pin, female (x1) Mic Input/Output ST type connectors for single mode fiber (2) Prompter BNC (x1), 1Vp-p, 75 Ω SDI Output BNC (2) for Monitoring (SDI-2 is used for HD Trunk In.) Distance of Fiber Cable (with BPU) Approx. Skm TRUNk (Input/Output (in EXT I/O 2ch RS232C or 1ch RS422A) D-sub 15pin, female (x1) EXT Input/Output		119 x 140 x 212 mm
Camera Section Pickup Device 2/3-inch type 9.8M pixels CMOS RGB 3-chip Effective Picture Elements 4K²²- 4096(H) x 2160(V) (PHD ³3.3840(H) x 2160(V) (PHD ³3.3840(H) x 2160(V) (PHD ³3.3840(H) x 2160(V) (PHD ³3.3840(H) x 2160(V) (PHD ³4.3840(H) x 2160(V) (PHD ³4.3840(Dimensions (W x H x D)	4 3/4 x 5 5/8 x 8 3/8 inches
A b 7 oz		2.0 kg (Body only)
Pickup Device 2/3-inch type 9.8M pixels CMOS RGB 3-chip	Mass	4 lb 7 oz
AK*: 4096(H) x 2160(V)	Camera Section	
Effective Picture Elements QFHD*3: 3840(H) x 2160(V) HD: 1920(H) x 1080(V) Spectrum System F1.4 prism system Lens Mount Sony 2/3-inch type bayonet mount Built-in Filters CC: A: CROSS, B:3200K, C: 4300K, D: 6300K ND: 1: CLEAR, 2: 1/4ND, 3: 1/8ND, 4: 1/16ND, 5: 1/64ND Servo Filter Control Yes Sensitivity (at 2000 lx, 3200K, 89.9% reflectance) F8.0 (2000 lx, 89.9% reflection) at 4K/59.94p² or 4x HD/59.94p³ Signal-to-noise Ratio -62dB at HD/59.94i Horizontal Resolution 2000 TV lines (at center) in 4K², 5% or higher modulation Distortion not recognizable except lens distortion Input/Output (in EXT I/O 1ch) D-sub 15pin, female (x1) Fiber Input/Output ST type connectors for single mode fiber (2) Prompter BNC (x1), 1 Vp-p, 75 Ω SDI Output BNC (2) for Monitoring (SDI-2 is used for HD Trunk In.) Distance of Fiber Cable (with BPU) Approx.5km TRUNK Input/Output (in EXT I/O 2ch RS232C or 1ch RS422A) D-sub 15pin, female (x1) Network Trunk RI-45 8-pin (x1) EXT Input/Output USB 2.0, Type A, 4-pin (x1) for USB Memory USB USB 2.0, Type A, 4-pin (x1), DC 10.5V to 17V <td>Pickup Device</td> <td>2/3-inch type 9.8M pixels CMOS RGB 3-chip</td>	Pickup Device	2/3-inch type 9.8M pixels CMOS RGB 3-chip
Lens MountSony 2/3-inch type bayonet mountBuilt-in FiltersCC: A: CROSS, B:3200K, C: 4300K, D: 6300KND: 1: CLEAR, 2: 1/4ND, 3: 1/8ND, 4: 1/16ND, 5: 1/64NDServo Filter ControlYesSensitivity (at 2000 lx, 3200K, 89.9% reflectance)F8.0 (2000 lx, 89.9% reflection) at 4K/59.94p² or 4x HD/59.94p³Signal-to-noise Ratio-62dB at HD/59.94iHorizontal Resolution2000 TV lines (at center) in 4K², 5% or higher modulationDistortionnot recognizable except lens distortionInput/Output(in EXT I/O 1ch) D-sub 15pin, female (x1)Fiber Input/OutputST type connectors for single mode fiber (2)PrompterBNC (x1), 1 Vp-p, 75 ΩSDI OutputBNC (2) for Monitoring (SDI-2 is used for HD Trunk In.)Distance of Fiber Cable (with BPU)Approx. 5kmTRUNK Input/Output(in EXT I/O 2ch RS232C or 1ch RS422A) D-sub 15pin, female (x1)Network TrunkRI-45 8-pin (x1)EXT Input/OutputD-sub 15Pin (female)USBUSB 2.0, Type A, 4-pin (x1) for USB MemoryDC InputXLR-type 4-pin (x1), DC 10.5V to 17VDC OutputDC 10.5 V to 17 V, 1.5 A (max.) via D-Sub 15pinSupplied AccessoriesNumber Plates (1set)Operation Manual CD-ROM (1)	Effective Picture Elements	OFHD*3: 3840(H) x 2160(V)
CC: A: CROSS, B:3200K, C: 4300K, D: 6300K	Spectrum System	F1.4 prism system
Built-in FiltersServo Filter ControlYesSensitivity (at 2000 lx, 3200K, 89.9% reflectance)F8.0 (2000 lx, 89.9% reflection) at 4K/59.94p² or 4x HD/59.94p³Signal-to-noise Ratio-62dB at HD/59.94iHorizontal Resolution2000 TV lines (at center) in 4K², 5% or higher modulationDistortionnot recognizable except lens distortionInput/Output(in EXT I/O 1ch) D-sub 15pin, female (x1)Fiber Input/OutputST type connectors for single mode fiber (2)PrompterBNC (x1), 1 Vp-p, 75 ΩSDI OutputBNC (2) for Monitoring (SDI-2 is used for HD Trunk In.)Distance of Fiber Cable (with BPU)Approx.5kmTRUNK Input/Output(in EXT I/O 2ch RS232C or 1ch RS422A) D-sub 15pin, female (x1)Network TrunkRJ-45 8-pin (x1)EXT Input/OutputD-sub 15Pin (female)USBUSB 2.0, Type A, 4-pin (x1) for USB MemoryDC InputXLR-type 4-pin (x1), DC 10.5V to 17VDC OutputDC 10.5 V to 17 V, 1.5 A (max.) via D-Sub 15pinSupplied AccessoriesNumber Plates (1set)Operation Manual CD-ROM (1)	Lens Mount	Sony 2/3-inch type bayonet mount
ND: 1 : CLEAR, 2 : 1/4ND, 3 : 1/8ND, 4 : 1/16ND, 5 : 1/64ND	Puilt-in Filtors	CC: A: CROSS, B:3200K, C: 4300K, D: 6300K
Sensitivity (at 2000 lx, 3200K, 89.9% reflectance) F8.0 (2000 lx, 89.9% reflection) at 4K/59.94p ⁻² or 4x HD/59.94p ⁻³ Signal-to-noise Ratio Horizontal Resolution 2000 TV lines (at center) in 4K ⁻² , 5% or higher modulation Input/Output Mic Input (in EXT I/O 1ch) D-sub 15pin, female (x1) Fiber Input/Output ST type connectors for single mode fiber (2) Prompter BNC (x1), 1 Vp-p, 75 Ω SDI Output BNC (2) for Monitoring (SDI-2 is used for HD Trunk In.) Distance of Fiber Cable (with BPU) Approx. 5km TRUNK Input/Output (in EXT I/O 2ch RS232C or 1ch RS422A) D-sub 15pin, female (x1) Network Trunk RJ-45 8-pin (x1) EXT Input/Output D-sub 15Pin (female) USB USB 2.0, Type A, 4-pin (x1) for USB Memory DC Input XLR-type 4-pin (x1), DC 10.5V to 17V DC 10.5 V to 17 V, 1.5 A (max.) via D-Sub 15pin Supplied Accessories Number Plates (1set) Operation Manual CD-ROM (1)	built-ii11 liters	ND: 1 : CLEAR, 2: 1/4ND, 3: 1/8ND, 4: 1/16ND, 5: 1/64ND
Signal-to-noise Ratio -62dB at HD/59.94i Horizontal Resolution 2000 TV lines (at center) in 4K², 5% or higher modulation Distortion not recognizable except lens distortion Input/Output Mic Input (in EXT I/O 1ch) D-sub 15pin, female (x1) Fiber Input/Output ST type connectors for single mode fiber (2) Prompter BNC (x1), 1 Vp-p, 75 Ω SDI Output BNC (2) for Monitoring (SDI-2 is used for HD Trunk In.) Distance of Fiber Cable (with BPU) Approx. 5km TRUNK Input/Output (in EXT I/O 2ch RS232C or 1ch RS422A) D-sub 15pin, female (x1) Network Trunk RJ-45 8-pin (x1) EXT Input/Output D-sub 15Pin (female) USB USB 2.0, Type A, 4-pin (x1) for USB Memory DC Input XLR-type 4-pin (x1), DC 10.5V to 17V DC Output DC 10.5 V to 17 V, 1.5 A (max.) via D-Sub 15pin Supplied Accessories Number Plates (1set) Operation Manual CD-ROM (1)	Servo Filter Control	Yes
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Distortion not recognizable except lens distortion Input/Output Mic Input (in EXT I/O 1ch) D-sub 15pin, female (x1) Fiber Input/Output ST type connectors for single mode fiber (2) Prompter BNC (x1), 1 Vp-p, 75 Ω SDI Output BNC (2) for Monitoring (SDI-2 is used for HD Trunk In.) Distance of Fiber Cable (with BPU) Approx. 5km TRUNK Input/Output (in EXT I/O 2ch RS232C or 1ch RS422A) D-sub 15pin, female (x1) Network Trunk RJ-45 8-pin (x1) EXT Input/Output D-sub 15Pin (female) USB USB 2.0, Type A, 4-pin (x1) for USB Memory DC Input XLR-type 4-pin (x1), DC 10.5V to 17V DC Output DC 10.5 V to 17 V, 1.5 A (max.) via D-Sub 15pin Supplied Accessories Number Plates (1set) Operation Manual CD-ROM (1)	Signal-to-noise Ratio	-62dB at HD/59.94i
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Distance of Fiber Cable (with BPU) Approx. 5km TRUNK Input/Output (in EXT I/O 2ch RS232C or 1ch RS422A) D-sub 15pin, female (x1) Network Trunk RJ-45 8-pin (x1) EXT Input/Output D-sub 15Pin (female) USB USB 2.0, Type A, 4-pin (x1) for USB Memory DC Input XLR-type 4-pin (x1), DC 10.5V to 17V DC Output DC 10.5 V to 17 V, 1.5 A (max.) via D-Sub 15pin Supplied Accessories Number Plates (1set) Operation Manual CD-ROM (1)	Prompter	
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EXT Input/Output D-sub 15Pin (female) USB USB 2.0, Type A, 4-pin (x1) for USB Memory DC Input XLR-type 4-pin (x1), DC 10.5V to 17V DC Output DC 10.5 V to 17 V, 1.5 A (max.) via D-Sub 15pin Supplied Accessories Number Plates (1set) Operation Manual CD-ROM (1)	TRUNK Input/Output	(in EXT I/O 2ch RS232C or 1ch RS422A) D-sub 15pin, female (x1)
USB USB 2.0, Type A, 4-pin (x1) for USB Memory DC Input XLR-type 4-pin (x1), DC 10.5V to 17V DC Output DC 10.5 V to 17 V, 1.5 A (max.) via D-Sub 15pin Supplied Accessories Number Plates (1set) Operation Manual CD-ROM (1)	Network Trunk	RJ-45 8-pin (x1)
DC Input XLR-type 4-pin (x1), DC 10.5V to 17V DC Output DC 10.5 V to 17 V, 1.5 A (max.) via D-Sub 15pin Supplied Accessories Number Plates (1set) Operation Manual CD-ROM (1)	EXT Input/Output	D-sub 15Pin (female)
DC Output DC 10.5 V to 17 V, 1.5 A (max.) via D-Sub 15pin Supplied Accessories Number Plates (1set) Operation Manual CD-ROM (1)	USB	USB 2.0, Type A, 4-pin (x1) for USB Memory
Supplied Accessories Number Plates (1set) Operation Manual CD-ROM (1)	DC Input	XLR-type 4-pin (x1), DC 10.5V to 17V
Number Plates (1set) Operation Manual CD-ROM (1)	DC Output	DC 10.5 V to 17 V, 1.5 A (max.) via D-Sub 15pin
Operation Manual CD-ROM (1)	Supplied Accessories	
Operation Guide (1)		
		Operation Guide (1)

- *1: The values for dimensions are approximate.
- *2: 4K/QFHD format is available with option, SZC-4001
- *3: High frame rate is available with option, SZC-4002 at BPU/CCU.

Optional Accessories











MSU-1000 Master Setup Unit

MSU-1500 Master Setup Unit

RCP-1000

RCP-1500 Remote Control Panel Remote Control Panel AC Adaptor





HKCU-SM100 HDCE-100 CCU Extension Adaptor Camera Extension Adaptor

Related Products











HDC-4300 4K System Camera

BPU-4000 Baseband Processor

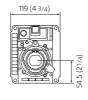
BPU-4500 **Baseband Processor** Unit

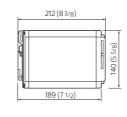
HDCU-4300 Camera Control Unit

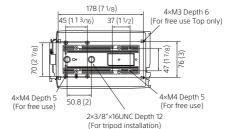
HDCU-2000 HDCU-2500 Camera Control Unit

Dimensions

Unit: mm (inches)







The screw holes for mounting are common on the top and bottom plates.

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