

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 makes 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.

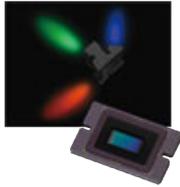
*¹ The 4K upgrade requires the SZC-4001 software option.

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

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.



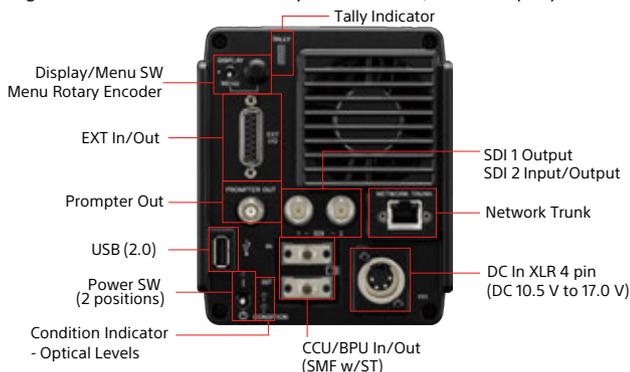
Smooth and Easy Migration from HD to 4K

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.

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).



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



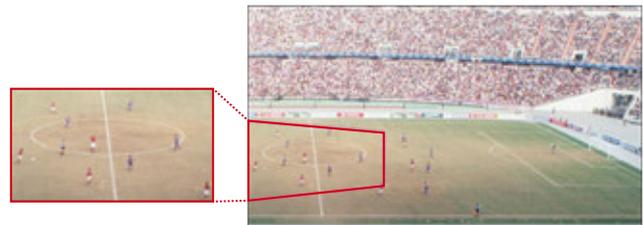
HDR image

* 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.



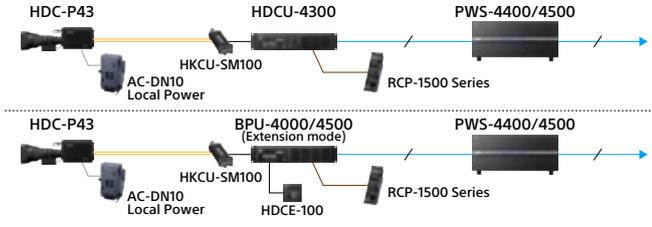
4K / HFR Upgrade Options

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.

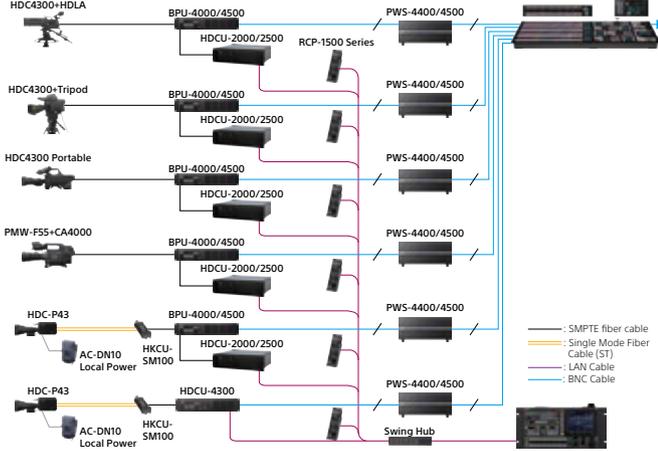
- SZC-4001 4K Upgrade Software for HDC-P43
- SZC-4002 HFR Upgrade Software for BPU-4000/BPU-4500 or HDCU-4300
- SZC-2001 HD Cutout Software for BPU-4000/BPU-4500 or HDCU-4300

System Configuration

Standalone Operation



System Operation with System Cameras



Specifications

General	
Power Requirements	DC12V, 6.4A (Max.)
Power Consumption	Approx. 40W
Operating Temperature	-20°C to +45°C -4°F to +113°F
Storage Temperature	-20°C to +60°C -4°F to +140°F
Dimensions (W x H x D)*	119 x 140 x 212 mm 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	4K [†] : 4096(H) x 2160(V) QFHD [‡] : 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/59.94p [‡] or 4x HD/59.94p [‡]
Signal-to-noise Ratio	-62dB at HD/59.94i
Horizontal Resolution	2000 TV lines (at center) in 4K [†] , 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)
	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.

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/CCU.

	Frame rate	HFR	Optional software required		Frame rate	HFR	Optional software required
4K HFR	119.88p	x2@59.94p	SZC-4001,	HD HFR	479.52p	x8@59.94p [†]	SZC-4002
	100p	x2@50p	SZC-4002 [‡]		400p	x8@50p [†]	
4K	59.94p	x1	SZC-4001,		359.64p	x6@59.94p [†]	
	50p	x1			300p	x6@50p [†]	
	29.97p	x1			239.76p	x4@59.94p	
	25PsF	x1			200p	x4@50p	
	24PsF	x1			179.82p	x3@59.94p	
	23.98PsF	x1			150p	x3@50p	
HD	119.88p	x2@59.94p			119.88p	x2@59.94p	
	100p	x2@50p			100p	x2@50p	
	59.94p	x1		59.94p	x1		
	50p	x1		50p	x1		
	59.94i	x1		59.94i	x1		
	50i	x1		50i	x1		
	29.97p	x1		29.97p	x1		
	25PsF	x1		25PsF	x1		
	24PsF	x1		24PsF	x1		
	23.98PsF	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.

* 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.

Optional Accessories



MSU-1000
Master Setup Unit

MSU-1500
Master Setup Unit

RCP-1000
Remote Control
Panel

RCP-1500
Remote Control
Panel

AC-DN10
AC Adaptor



HKCU-SM100
CCU Extension
Adaptor

HDCE-100
Camera Extension
Adaptor

Related Products



HDC-4300
4K System
Camera

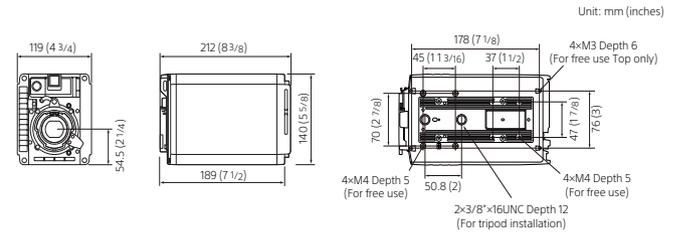
BPU-4000
Baseband
Processor Unit

BPU-4500
Baseband
Processor Unit

HDCU-4300
Camera Control
Unit

HDCU-2000
HDCU-2500
Camera Control
Unit

Dimensions



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

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The values for mass and dimension are approximate.

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MK20242V1Y1T7DEC



Company name	Dynamic Perspective GmbH
H/Q	Wehlistrassen 29/Stiege 1/Hof Top 1, 1200 Vienna, Austria
Homepage URL	http://dynamicperspective.com/home/
Categories	Gimbals
Products and Applications	DynaX5

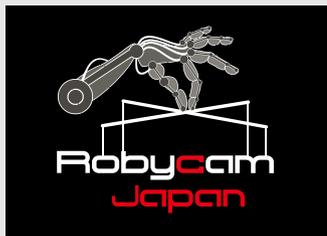
Images of Products and Applications



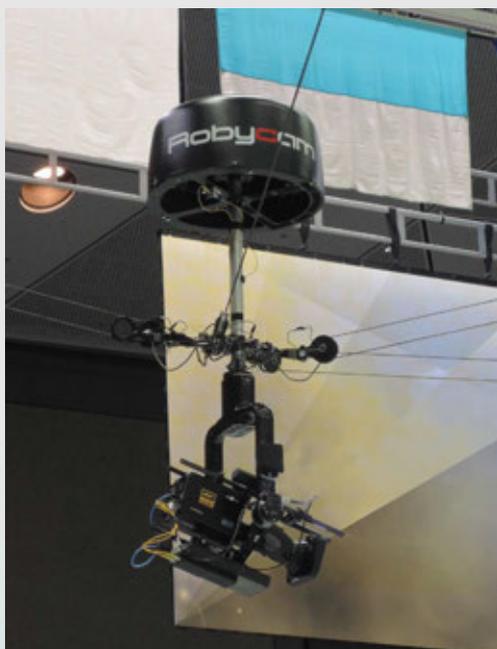


Company name	Gyro Stabilized Systems
H/Q	104 New Mohawk Rd., Nevada City, CA 95959, USA
Homepage URL	http://gyrostabilizedsystems.com/
Categories	Gimbals
Products and Applications	B512, B516, C520, C512, C516
Images of Products and Applications	





Company name	MOVICOM Group / RobyCam Japan
H/Q	MOVICOM: Nauchny proezd, 20, 117246, Moscow, Russia GIA RobyCam Japan: 4-5-7 Higashiizumi, Komae city, Tokyo 201-0014 JAPAN
Homepage URL	http://www.movicom.tv http://www.movicom.ru/en/main.html http://www.robycamjapan.or.jp/
Categories	Wirecam
Products and Applications	RobyCam
Images of Products and Applications	



SHOTOKU

BROADCAST SYSTEMS

Company name	Shotoku Japan (Global Headquarters) Shotoku UK (Robotics)
H/Q	Shotoku Japan: 6-10-10 Futago, Takatsu-ku, Kawasaki, Kanagawa 213-0002 Japan Shotoku UK (Robotics): Unit A4, Dolphin Road, Sunbury-on-Thames, TW16 7HE, United Kingdom
Homepage URL	http://www.shotoku.tv/uk/top
Categories	Tripod, Crane, Heads, Pedestal
Products and Applications	Robotic systems Tripods Heads Pedestals

Images of Products and Applications



SHOT OVER

Company name	Shotover
H/Q	133 Glenda Drive, Queenstown, New Zealand 9300
Homepage URL	http://shotover.com/
Categories	Gimbals
Products and Applications	K1 F1 G1

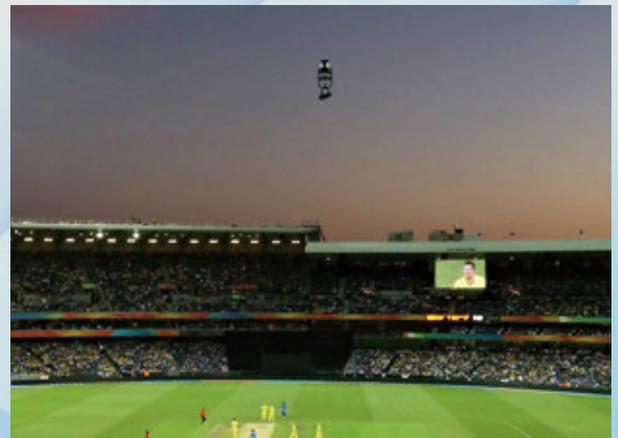
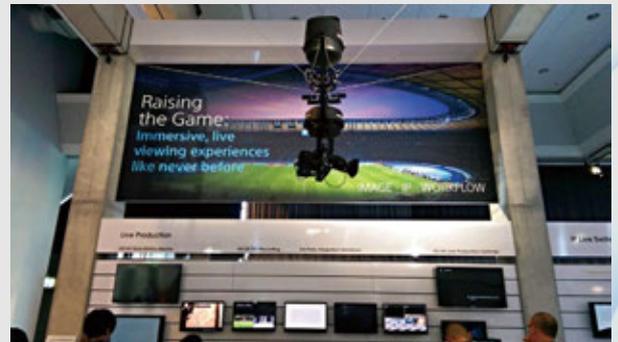
Images of Products and Applications



spidercam[®]

Company name	spidercam GmbH (Austria)
H/Q	Gewerbestr. 10, 9181 Feistritz im Rosental, AUSTRIA
Homepage URL	http://www.spidercam.tv/
Categories	Wirecam
Products and Applications	spidercam Field spidercam Light spidercam Bow

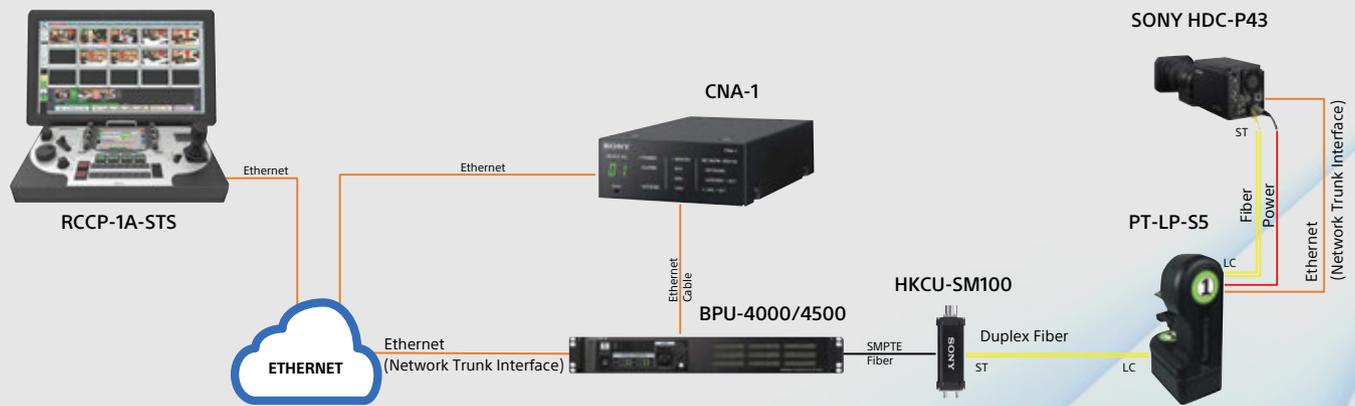
Images of Products and Applications



Telemetrics

Camera Control Systems

Company name	Telemetrics Inc.
H/Q	75 Commerce Drive, Allendale, New Jersey 07401 USA
Homepage URL	http://www.telemetricsinc.com/
Categories	Pan/Tilt Heads
Products and Applications	PT-LP-S5, PT-HP-S5
Images of Products and Applications	



PT-LP-S5



PT-HP-S5

Vinten

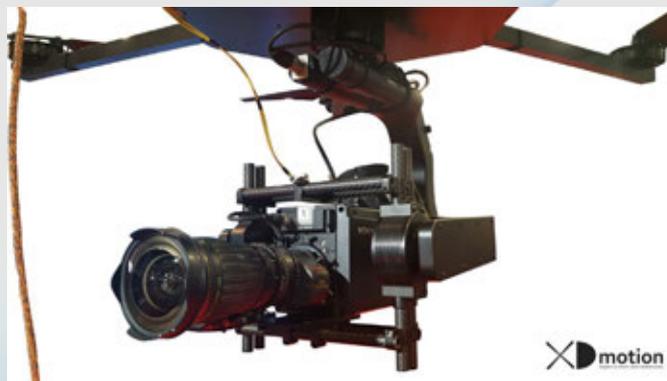
Company name	Vinten (Vitec Group)
H/Q	William Vinten Building, Western Way, Bury St Edmunds, IP33 3TB, UK
Homepage URL	http://www.vinten.com
Categories	Pan/Tilt Head
Products and Applications	Vantage: compact robotic pan/tilt head for broadcast quality movement
Images of Products and Applications	





Company name	XD motion
H/Q	23, Rue des Broderies, 78310 Coignières, France
Homepage URL	http://www.xd-motion.com/
Categories	Tethered drone, Gyro-stabilized heads
Products and Applications	<ul style="list-style-type: none"> Helicopters Gyro-Stabilized Heads Cablecam X fly Multi-Dimension Robotics Travelling Vehicles Rail Cams X track Travelling Mini Aerials Tethered drone

Images of Products and Applications





HDC-P43 Images



SONY

HDC-P43

4K Multi-Purpose Camera



4K

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

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^{*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.

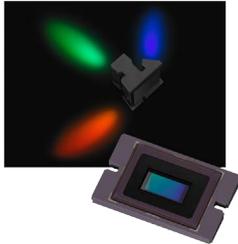


SUPER MOTION

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

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4K 2x and HD 8x Super Slow Motion*¹

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*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

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4K Live HDR (High Dynamic Range)

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SDR image



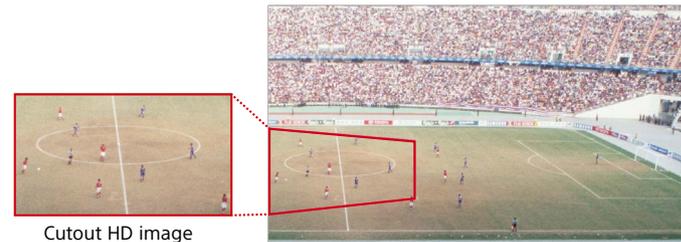
HDR image

* 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.

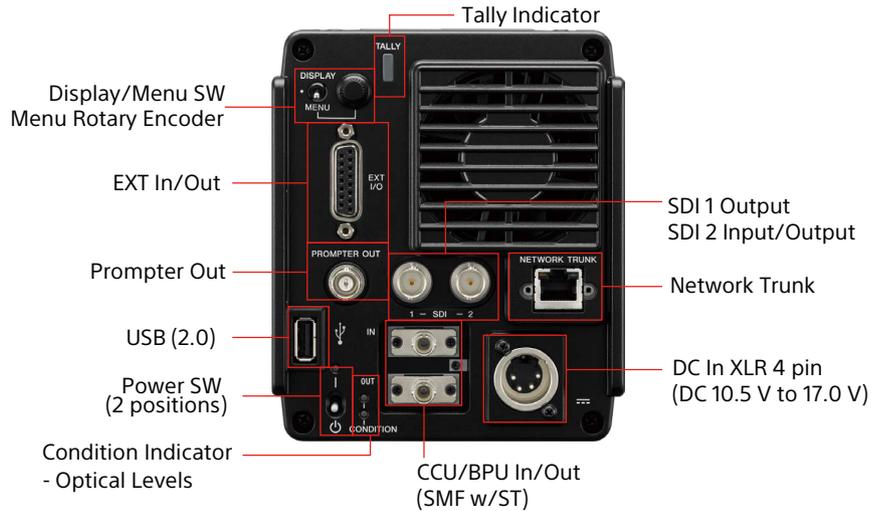


Cutout HD image

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/CCU.

	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.

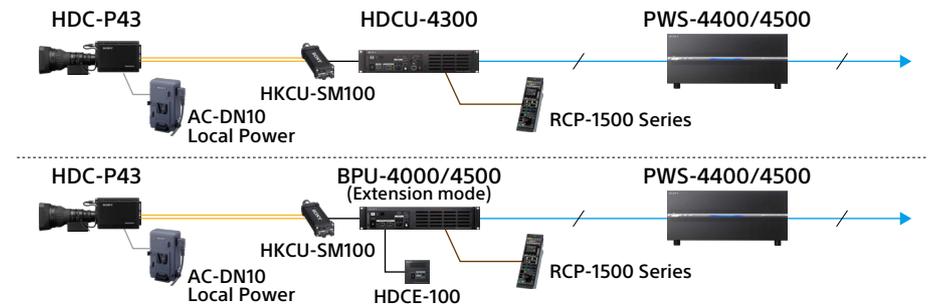
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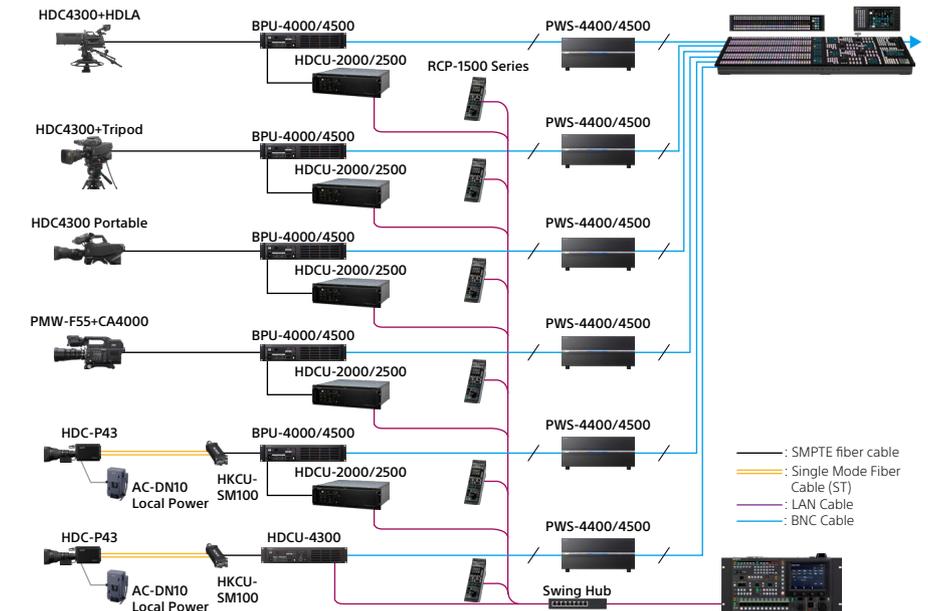
- SZC-4001 4K Upgrade Software for HDC-P43
- SZC-4002 HFR Upgrade Software for BPU-4000/BPU-4500 or HDCU-4300
- SZC-2001 HD Cutout Software for BPU-4000/BPU-4500 or HDCU-4300

System Configuration

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• System Operation with System Cameras



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General	
Power Requirements	DC12V, 6.4A (Max.)
Power Consumption	Approx. 40W
Operating Temperature	-20°C to +45°C -4°F to +113°F
Storage Temperature	-20°C to +60°C -4°F to +140°F
Dimensions (W x H x D) ¹	119 x 140 x 212 mm 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	4K ² : 4096(H) x 2160(V) 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/59.94p ² or 4x HD/59.94p ³
Signal-to-noise Ratio	-62dB at HD/59.94i
Horizontal Resolution	2000 TV lines (at center) in 4K ² , 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)
	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
Remote Control Panel



RCP-1500
Remote Control Panel



AC-DN10
AC Adaptor



HKCU-SM100
CCU Extension Adaptor



HDCE-100
Camera Extension Adaptor

Related Products



HDC-4300
4K System Camera



BPU-4000
Baseband Processor Unit



BPU-4500
Baseband Processor Unit

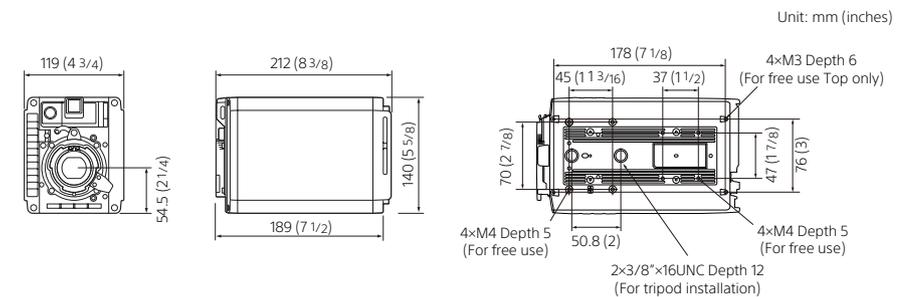


HDCU-4300
Camera Control Unit



HDCU-2000
Camera Control Unit

Dimensions



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

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HDC-P43

Telecamera POV 4K/HD



Panoramica

Produzione in super slow motion, flessibile, in risoluzione HD e 4K senza compromessi

La telecamera HDC-P43 è un dispositivo POV (Point Of View) leggero che si integra perfettamente con l'infrastruttura HD, le ottiche e gli accessori esistenti, dando al contempo la possibilità di creare produzioni in 4K e in super slow motion di qualità eccellente.

Perfetta per le riprese multi-camera o come dispositivo standalone, la telecamera HDC-P43 può essere montata su una gru o utilizzata in posizione fissa.

La telecamera HDC-P43, parte del sistema live flessibile e senza compromessi 4K/HD di Sony, permette di ottenere il massimo dai budget di produzione odierni.

Integrazione perfetta nei workflow esistenti

La telecamera HDC-P43 è abbinata alla system camera HDC-4300, con la quale condivide lo stesso avanzato sensore 4K da 2/3" a tre chip e l'attacco dell'ottica B4. Operatori e cameraman ne troveranno l'utilizzo molto familiare, cosa che permette di dare il via alla produzione in maniera rapida, senza un costoso periodo di formazione.

La telecamera HDC-P43 è inoltre pienamente compatibile con la vasta gamma di prodotti già esistenti attualmente in uso con il sistema HDC 4300, quali le unità processore di banda base BPU-4500/BPU-4000, le unità di controllo della telecamera HDCU-4300/HDCU-2000/HDCU-2500 da rack e da mezzo rack e i pannelli telecomando serie RCP.

Scegliere il livello di funzionamento richiesto

La telecamera HDC-P43 funziona con le unità processore di banda base BPU-4000/4500 o l'unità di controllo della telecamera HDCU-4300 tramite connessione diretta mediante cavo a fibre ottiche a modalità semplice, consentendo l'attivazione delle funzioni 4K, HFR e cut-out HD con le stesse chiavi software opzionali dell'HDC-4300. In questo modo è possibile aggiungere spettacolari effetti super slow motion 4K x2 [*1] e HD 8x e l'acquisizione delle immagini 4K alle produzioni HD standard. Tutta la flessibilità e il controllo che ti servono in una singola piattaforma ad alte prestazioni.

Nota *1: 4K x2 è disponibile solo con BPU-4000/BPU-4500.

Colori e immagini fantastiche, con innovazione di prossima generazione

L'avanzato sistema ottico dell'HDC-P43 supporta la gamma di colori ITU-R BT.2020 di prossima generazione, che consente una riproduzione del colore più ampia e precisa durante i broadcast live. Noterai la differenza grazie a immagini vivide e realistiche, che faranno sentire gli spettatori al centro dell'azione.

Inoltre, grazie al processo S-Log3, è disponibile la gamma High Dynamic Range, per un funzionamento simultaneo in 4K e HD.

Attributi

Installazione diretta di ottiche B4-Mount

Grazie all'attacco della telecamera da 2/3", l'HDC-P43 funziona direttamente con ottiche B4. L'attacco B4 supporta ottiche HD e 4K, permettendoti di utilizzare ottiche B4-Mount grandangolari e ad alte prestazioni per riprendere scene d'azione sportiva con una grande profondità di campo.

Eccezionali funzionalità 4K con ampio range dinamico e gamma cromatica

La chiave software opzionale SZC-4001 consente all'HDC-P43 di acquisire immagini in 4K esattamente come il sistema HDC-4300. La telecamera, infatti, è dotata dello stesso sensore di immagine 4K da 2/3" a 3 chip e della stessa tecnologia di allineamento di elevatissima precisione utilizzata per montare i chip su un prisma di nuovo sviluppo. Questo sistema ottico supporta l'ampia gamma di colori ITU-R BT.2020*, che consente una più precisa riproduzione del colore durante i broadcast live.

* ITU-R BT.2020 è lo standard di specifiche sui formati video definito da ITU-R.

Acquisizione in High Frame Rate in 2x per il 4K e in super slow motion 8x per l'HD

I sensori di immagine con risoluzione 4K reale della HDC-P43 sono in grado di acquisire a una risoluzione quattro volte superiore all'HD. Nelle riprese HD, questa funzionalità può essere impiegata per ottenere un'acquisizione dell'immagine a velocità estremamente elevate fino a un massimo di 479,52/400 fps mediante l'aggiornamento software opzionale*. I seguenti frame rate sono disponibili di base: 59.94/50, 119.88/100 e 179.82/150 fps. Nelle riprese in 4K, è possibile ottenere un frame rate massimo di 119.88/100 fps.

Questo processo completamente digitale viene applicato in tempo reale a ogni frame nella BPU-4000/4500, anche in caso di fps estremamente elevati, producendo la stessa qualità delle immagini della velocità normale. Le immagini acquisite possono essere registrate sull'unità di archiviazione AV multiporta 4K/HD PWS-4400 o PWS-4500, per il replay in super slow motion**.

* Con il software opzionale SZC-4002 per BPU4000/4500.

** Potrebbero essere utilizzati anche server di produttori terzi.

Funzione di cut-out HD per immagini nitide*

L'innovativa tecnologia software di Sony consente di eseguire il cut-out in tempo reale di un'immagine Full HD da un'immagine 4K. Sono disponibili due modalità: puoi selezionare la modalità Zoom e prospettiva o la modalità HD semplice. Se la telecamera viene mantenuta in posizione fissa, è possibile ritagliare qualunque porzione dell'immagine acquisita per fornire agli spettatori un'immagine ingrandita in HD, come se fosse stata eseguita una panoramica con la telecamera. In modalità Zoom e prospettiva è possibile eseguire il cut-out di una porzione dell'immagine mentre viene cambiata la prospettiva in base alla lunghezza focale dell'ottica. In modalità HD semplice, è possibile eseguire il cut-out di due parti di immagine nello stesso tempo.

*con il software opzionale SZC-2001 per BPU-4000/4500.

Migrazione da HD a 4K semplice e immediata*

L'HDC-P43 è progettata per integrarsi nell'ambiente di produzione live 4K di Sony in

continua espansione, affiancando le configurazioni live con telecamere HDC-4300. Un aggiornamento software opzionale consente alla HDC-P43 di acquisire immagini 4K per più uscite 4K e HD, sfruttando le unità processore di banda base BPU-4000/4500 e le unità di controllo della telecamera HDCU-4300.

* Con il software opzionale SZC-4001.

Integrazione perfetta nei workflow HD di Sony

L'HDC-P43 fa parte dell'acclamata e popolare serie HDC di Sony dedicata a soluzioni per la produzione live, cosa che le consente di sfruttare la compatibilità diretta con la system camera abbinata HDC-4300 e l'ampia gamma di accessori di cui è dotata, fra cui viewfinder, adattatori per ottiche grandangolari, pannelli telecomando e unità di controllo della telecamera. La telecamera è inoltre concepita per funzionare con sistemi di controllo di terze parti.

Compatta, leggera e a basso consumo

La telecamera HDC-P43 è compatta e leggera, ideale per il montaggio in molte applicazioni, ad esempio su gru, o utilizzata in posizione fissa. Dato il consumo energetico ridotto* e la grande ventola motore di cui è dotata, questa telecamera è caratterizzata da livelli di rumore più bassi.

* L'HDC-P43 riceve solo alimentazione locale.

Due filtri ottici controllabili da remoto

La telecamera HDC-P43 ha gli stessi due filtri ottici dell'HDC-4300, ossia Neutral Density (ND) e Colour Correction (CC), per garantire maggiore flessibilità al variare delle condizioni di illuminazione. Entrambi i filtri sono servocontrollati e quindi facilmente controllabili da remoto tramite un comando della telecamera attraverso la BPU-4000/4500 o l'HDCU-4300.

Specifiche

Generale	
Alimentazione	10,5 V - 17 V c.c., 6,4 A (max.)
Consumo	Circa 40 W
Temperatura di esercizio	Da -20°C a +45°C Da -4°F a +113°F
Temperatura di stoccaggio	Da -20 °C a +60 °C
Dimensioni (L x A x P) *1	119 x 140 x 212 mm 4 3/4 x 5 5/8 x 8 3/8 pollici
Peso	2,0 kg (solo corpo) 4 lb 7 oz
Sezione telecamera	
Sensore	2/3" 9,8 megapixel 3 CMOS RGB
Elementi effettivi dell'immagine	4K*2: 4096 (O) x 2160 (V) QFHD*3: 3840 (O) x 2160 (V) HD: 1920 (O) x 1080 (V)
Sistema a spettro	Sistema a prisma F1.4

Montaggio obiettivo	Montaggio a baionetta 2/3" di Sony
Filtri integrati	CC: A: CROSS, B:3200K, C: 4300K, D: 6300K ND: 1: TRASPARENTE, 2: 1/4 ND, 3: 1/8ND, 4: 1/16 ND, 5: 1/64 ND
Filtro servocontrollato	Sì
Sensibilità (a 2000 lx, 3.200.000, riflettanza 89,9%)	F8.0 (2000 lx, 89,9% riflettanza) a 4K/59,94p*2 o 4x HD/59,94p*3
Rapporto S/N	-62 dB a HD/59,94i
Risoluzione orizzontale	2000 linee TV (al centro dello schermo) in 4K*2, modulazione 5% o superiore
Distorsione	Non rilevabile ad eccezione della distorsione dell'ottica

Ingresso/Uscita

Ingresso mic	(in EXT I/O 1 canale) D-sub 15 pin, femmina (x1)
Ingressi/Uscite a fibra ottica	Connettori ST per fibra a modalità semplice (2)
Prompter	BNC (x1), 1 Vp-p, 75 Ω
Uscita SDI	BNC (2) per il monitoraggio (SDI-2 utilizzato per l'ingresso HD Trunk)
Distanza del cavo in fibra (con BPU)	Circa 5 km
Ingresso/Uscita TRUNK	(in EXT I/O 2 canali RS232C o 1 canale RS422A) D-sub 15 pin, femmina (x1)
Trunk di rete	RJ-45 8 pin (x1)
Ingresso / uscita EXT	D-sub 15 pin (femmina)
USB	USB 2.0, tipo A, 4 pin (x1) per memoria USB
Ingresso DC	XLR a 4 pin (x1), DC da 10,5 V a 17 V
Uscita DC	DC da 10,5 V a 17 V, 1,5 A (max.) tramite D-Sub 15 pin

Accessori in dotazione

Numeri di targa (1 set)
 Manuale operativo (CD-ROM) (1)
 Guida operativa (1)

Note

* 1 I valori delle dimensioni sono approssimativi.

*2

Il formato 4K/QFHD è disponibile come opzione, SZC-4001

*3

La funzione High Frame Rate è disponibile come opzione, SZC-4002 a BPU/CCU.

Prodotti correlati



PWS-100MG1

Workstation per il gateway multimediale



HDCU-4300

Unità combinata di controllo della telecamera con processore di banda base 4K / HD compatta per telecamera HDC-4300



MSU-1000

Unità di configurazione principale, pannello di controllo remoto multitelecamera per telecamere HDC/HSC (tipo orizzontale)



BVM-X300 V2

Monitor di riferimento OLED 4K TRIMASTER EL™ da 30"



HDCU-2500

Unità di controllo della telecamera da mezzo rack per telecamere della serie HDC



HDC-4300

System camera 4K/HD



BPU-4500

Unità processore di banda base 4K/HD per rete IP



BPU-4000

Unità di elaborazione della banda base 4K



MSU-1500

Unità di configurazione principale, pannello di controllo remoto multitelecamera per telecamere HDC/HSC (tipo verticale)

Galleria

