



HDC-P1

HD Multi-purpose Camera

Sony is proud to introduce a highly sophisticated and compact Point-of-View (POV) style HD camera, the HDC-P1. This camera system has been introduced to answer the requirement for HD robotics, multi-format sports applications and emerging 3D applications. The camera retains the operational feel of the Sony HDC-1000 Series cameras. Packed with years of Sony high technology and experience, this remarkably slim camera answers the ever-increasing need for high picture quality in a small, lightweight unit.

The HDC-P1 is equipped with a 1920 x 1080 2/3-inch 2.2-megapixel CCD to deliver extremely high picture quality that will intercut with the HDC-1000 or the HSC/HXC cameras seamlessly. The HDC-P1 offers a rich feature set including the capability of 1080i, 1080p, and 720p operation in a very compact body.

Unlike retasking a camcorder for studio applications, the HDC-P1 has been designed from the outset as a studio camera. Care has been taken to design the camera operationally and functionally the same as the HDC Series cameras. Camera matching is simple and system controls are easy to access within the camera's menu's.

In addition, the HDC-P1 shares the same control system as the HDC Series, ensuring ease of operation.

Along with its CCD, control system, and extremely slim body, many other features combine to make the HDC-P1 very versatile, including optional 24p capturing capability, 14-bit A/D converter, motorized ND/CC filters, and creative picture performance. The HDC-P1 is an ideal POV camera for various applications including flash cameras, unmanned studio robotics cameras, stadium sporting events, and stereoscopic 3D shooting applications.

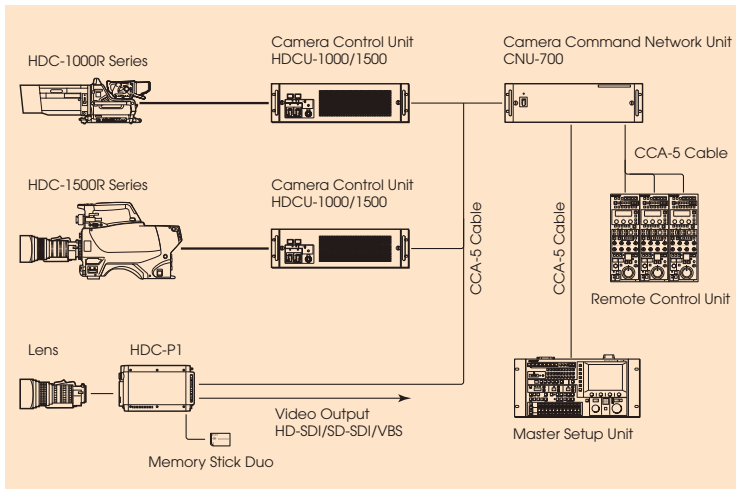
With its cutting-edge performance, operability, and system flexibility, the HDC-P1 is a high-performance yet affordable multipurpose camera.

Features

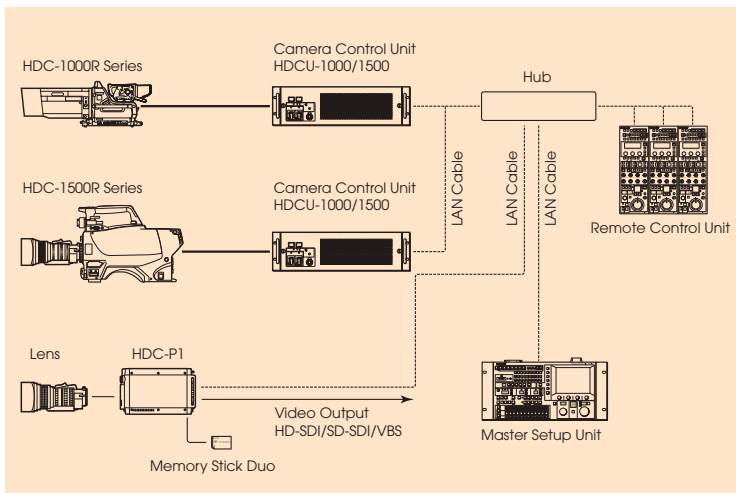
- Sony's first 2/3-inch (16.9-mm) 2.2-megapixel full-HD CCD "box"-type (POV-style) camera with the equivalent picture performance of HDC-1000 Series studio cameras
- Compact body: just 86 mm (3 1/2 inches) in width
- Supports a wide range of capturing formats: 1080/59.94i, 1080/50i, 720/59.94p, and 720/50p (add 4:2:2 1080/23.98PsF, 24PsF, 25PsF, and 29.97PsF capturing formats with optional HZC-PSFP1 software)
- Motorized filter servo system (two disks: ND and CC)
- Same control system as HDC Series studio cameras
- LAN connectivity

Sample System Diagram

System Operation (CNU Connection)



System Operation (LAN connection)



Specifications

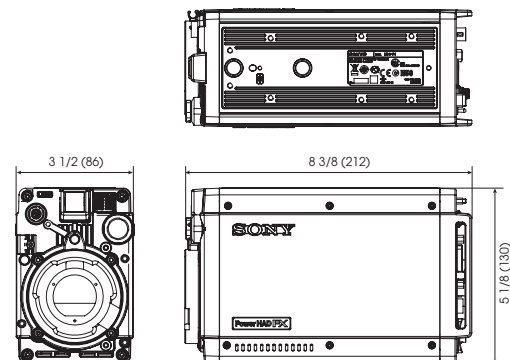
General	
Power requirements	10.5 V DC to 17 V DC, 24W (not including peripherals)
Operating temperature	-4°F to +113°F (-20°C to +45°C)
Storage temperature	-4°F to +140°F (-20°C to +60°C)
Weight	3 lb 12 oz (1.7 kg)
Camera section	
Pickup device	3-chip 2/3-inch type CCD
Effective picture elements	1920 x 1080 (H x V)
Signal format	1080/50i, 1080/59.94i, 720/50p, 720/59.94p (1080/23.98p, 1080/24p, 1080/25p, 1080/29.97p: option)
Spectrum system	F1.4 prism
Lens mount	Sony bayonet mount
Built-in filters	CC: A: CROSS, B: 3200K, C: 4300K, D: 6300K ND: 1: CLEAR, 2: 1/4ND, 3: 1/16ND, 4: 1/64ND
Sensitivity (at 2000 lx, 3200K, 89.9% reflectance)	F10 (1080/59.94i, 720/49.94p), F11 (1080/50i, 720/50p)
Signal-to-noise ratio	HD output: Typical 55 dB (NS Max. 62 dB) SD output: Typical 65 dB (59.94 Hz) Typical 63 dB (50.00 Hz)
Horizontal resolution	1000 TV lines (at center)
Shutter speed	1/100, 1/125, 1/250, 1/500, 1/1000, 1/2000 s (1080/59.94i) 1/60, 1/125, 1/250, 1/500, 1/1000, 1/2000 s (1080/50i)
Modulation depth	Y: 45% at 27.5 MHz (800 TV lines with typical lens), Pb/Pr: 80% of 12 MHz
Inputs/Outputs	
Genlock input	BNC (x1) HD: SMPTE-274M, tri-level sync, 0.6 Vp-p, 75 Ω SD: Black burst (NTSC: 0.286 Vp-p, 75 Ω/PAL: 0.3 Vp-p, 75 Ω)
SDI 1 output	BNC (x1) Can be switched between HD-SDI and SD-SDI
SDI 2 output	BNC (x1) Can be switched between HD-SDI and SD-SDI
VBS output	BNC (x1)
EXT I/O	D-sub 15-pin (female) (x1)
Remote	8-pin (x1)
Lens	12-pin (x1)
LAN	RJ-45 (x1), 10BASE-T/100BASE-TX
Supplied accessories	Operation manual (x1), Tally number plate (x1)

Optional Accessories

- VCT-14 Tripod Adaptor
- RM-B150 Remote Control Unit
- RM-B750 Remote Control Panel
- MSU-900/MSU-950 Master Setup Unit
- RCP-920/RCP-921/RCP-750/RCP-751/RCP-700/ RCP-701 Remote Control Unit

Dimensions

Unit: inches (mm)



SONY

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V-2455 (MK10649V1)



The HDC-P1 is produced at Sony UK Ltd, Digital Technology Center Pencoed, which has received ISO14001, the Environmental Management System certification.

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