

HDC-P1

Three 2/3-inch Power HAD FX CCD sensors
full HD compact system camera with HD-
SDI output



Overview

Uncompromising, Full-HD performance from compact camera

There is increasing demand for small "Box"-type or "Point-Of -View" cameras with the flexibility to shoot from almost anywhere while still delivering highest quality full-HD pictures for use standalone or in seamless integration with content from full-size cameras. The HDC-P1 delivers unprecedented picture quality thanks to its full use of the technologies from Sony's flagship HDC Series studio cameras. Three 2/3"-inch type Power HAD FX CCDs offer a sensitivity of F11 at 1080/50i or F10 at 1080/59.94i. A wide range of formats are supported, including 720/50P, 59.94P, and 1080 50/59.94P, 23.98PsF, 24PsF, 25PsF, and 29.97PsF capabilities available via optional software upgrades.

It is also the first camera of its class to feature dual ND/CC filters, both of which are servo controlled, and its ultra-narrow, 86mm body makes it ideal for applications such as 3D. Other applications include a range of unmanned and point-of-view HD applications, such as stadiums, conference rooms and schools. It can also be used as a "companion" camera in automated broadcast studios.

Compromise-free HD Picture Quality

Despite its diminutive dimensions, the HDC-P1 delivers outstanding quality, full-HD images. Three 2/3-inch type full HD "Power HAD FX" CCDs offer a sensitivity of F11 at 1080 50i and a high signal-to-noise ratio of -58 dB.

Shoot Anywhere

Compact and lightweight, the HDC-P1 is ideal for capturing HD-quality images in locations and from angles where bulky production HD cameras cannot be installed. Weighing only 1.7 kg (3 lb 12 oz) enables easy installation in space-constrained and awkward areas such as on a crane head or helicopter. The supplied tally unit can be easily detached from the camera body, minimizing the camera size to be fitted in, for example, a pan/tilt head or an underwater housing.

Easily integrated with your existing systems

The HDC-P1 camera is fully compatible with Sony's current master set-up units (MSU) and remote control panels (RCP). This flexibility makes it easy to integrate with everything from extensive multi-camera systems or simple point-to-point systems.

This product contains pre-installed software and requires the purchase of licence keys to activate some functions.

Features

2/3" full HD "Power HAD FX" CCDs

Three 2/3"-inch type Power HAD FX CCDs offer a sensitivity of F11 at 1080/50i or F10

at 1080/59.94i. A wide range of formats are supported including 23.98PsF, 24PsF, 25PsF, and 29.97PsF capabilities available via optional software upgrades.

Compact and Lightweight Design

The HDC-P1 weighs only 1.7 kg (3 lb 12 oz) and its dimensions are a compact 86mm(W) x 130mm(H) x 189mm(D), allowing easy installation in space-constrained and awkward areas such as on a crane head or helicopter.

Two remote control optical filters

The HDC-P1 is the first camera of its type with two optical filters - Neutral Density (ND) and Colour Correction (CC) - to provide more flexibility under changing lighting conditions and easier picture matching with full size system cameras. Both filters are servo driven so they can easily be controlled remotely.

Equivalent picture quality and control system as standard Sony HD camera system

The HDC-P1 camera not only delivers comparable picture quality to a full-size Sony system camera, it is also fully compatible with Sony's current Master Set-up Units (MSU) and Remote Control Panels (RCP) using 700 Protocol - the same control system as HDC Series Cameras. This flexibility allows for comprehensive camera systems or simple point-to-point systems.

Specifications

General	
Operating temperature	-20 to +45 °C (-4 to +113 °F)
Mass	Approx. 1.7kg (3 lb 12 oz, without VF and lens)
Camera	
Pickup device	3-CCD 2/3-inch type 16:9
Effective picture elements (H&V)	1920 x 1080
Spectrum system	F1.4 prism system
Built-in filters	1: Clear, 2: 1/4ND, 3: 1/16ND, 4: 1/64ND A: CROSS, B: 3200K, C: 4300K, D: 6300K
Servo filter control	Yes
Lens mount	Sony 2/3-type bayonet mount
Sensitivity	F11 at 2000 lx (3200K, 89.9% reflectance)
Signal-to-noise ratio	Typical -58dB (NS Max. -64 dB)
Horizontal resolution	1000 TV lines (at Centre)
Shutter speed selection	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)
	45% or more horizontally (800 TV lines at

Modulation depth centre, 27.5 MHz, with typical lens), Pb/Pr: 80% of 12 MHz

Input connectors

Genlock input BNC type (1), 1.0 Vp-p, 75Ω HD: SMPTE-274M, tri-level sync, 0.6 Vp-p, 75Ω SD: Black burst (NTSC: 0.286 Vp-p, 75Ω/PAL: 0.3 Vp-p, 75Ω)

Output connectors

BNC type (2), 3G/HD/SD-SDI BNC type (2), HD-SDI/SD-SDI selectable
 VBS out BNC type (1)

Input/output connectors

EXT I/O D-sub 15Pin (female)
 Lens 12-pin
 Remote 8-pin
 LAN RJ-45 (1), 10Base-T/100Base-TX

Supplied Accessories

Operation Manual
 Tally number plate

Related products



HDC-2570
 Multi-format HD portable system camera with digital triax transmission interface



HDC-2000W
 3G double-speed multiformat HD studio system camera (beige)



HSC-300RF
 Three 2/3-inch Power HAD FX CCD sensors portable HD / SD camera for fibre operation and large lens options



HSC-300R
 Three 2/3-inch Power HAD FX CCD sensors portable HD / SD camera for digital triax operation and large lens options



HSC-100RF
 Three 2/3-inch Power HAD FX CCD sensors portable HD / SD camera for fibre operation



HSC-100R
 Three 2/3-inch Power HAD FX CCD sensors portable HD / SD camera for digital triax operation



HDC-2400
 3G multi format HD system camera



HDC-2500
 3G double-speed multi format HD system camera



CNA-1

Camera control network adaptor



HDC-2000B

3G double-speed multiformat HD studio system camera (black)

Gallery

