

HDC-X300

The HDC-X300 multi-purpose compact HD camera - opening new possibilities to HD image acquisition.



Overview

A new generation of multi-purpose HD Camera (without lens)

Designed to meet the growing demand for a compact and affordable HD camera, the HDC-X300 combines high performance with a range of unique features packed in a compact body.

With its high performance, compactness, and affordable price, the Sony HDC-X300 is the ideal choice for an extensive range of HD image acquisition applications such as large-screen displays, production, PoV(Point of View), studios, surveillance, image processing, photo booths, microscopy, and much more.

Compact and Lightweight Design

The HDC-X300 is designed to be compact and lightweight, making it ideal for capturing HD-quality images at locations and from angles where bulky production HD cameras cannot be installed. This compact camera weighs only 1.2 kg, allowing 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.

Auto-Focus Function

While maintaining compatibility with interchangeable manual-focus lenses, the HDC-X300 comes packaged with a convenient auto-focus lens (HDC-X300K). Two auto-focus modes are available and can be selected on the supplied lens. One-push auto-focus re-adjusts the focus each time the button is pressed, while auto tracing focus automatically tracks the focus in a dynamic manner.

* Auto-focus function is only available when using the focus servo lens VCL-719BXS included in the HDC-X300K package

Versatile Interfaces

The HDC-X300 camera is equipped with a wide range of interfaces. The camera can output an HD SDI signal, and it also has a D-sub 15-pin interface that allows direct connection to an LCD monitor, a projector, or other equipment. The D-sub 15-pin output signal can be selected from analog R/G/B or analog component Y/Pr/Pb.

Features

Superb Picture Quality

Incorporating three 1/2-inch type 1.5-megapixel HD CCDs, the HDC-X300 offers outstanding-quality images with a low smear level of -120 dB and a high signal-to-noise ratio of 54 dB.

Progressive Mode

Incorporating Sony's innovative Advanced Frame Accumulation (AFA) technology, the HDC-X300 can output progressive HD signals (23.976PsF/25PsF/29.97PsF) in addition to interlaced HD signals (50i/59.94i). Interlace and progressive modes can be easily selected from the camera setup menu.

- 50i output mode: 50i or 25PsF selectable
- 59.94i output mode: 59.94i/29.97PsF/23.976PsF (with built-in 2-3 pull-downfunction) selectable

Low-Light Shooting

The HDC-X300 offers two convenient functions for capturing clear images in low-light environments - a Slow Shutter mode and a Gain function - which can be used separately or together. The Slow Shutter mode allows the charge accumulation period of the CCD (typically 1/60 or 1/50 second) to be extended to approximately two seconds (64 frames).The Gain function allows the camera gain to be boosted to +48 dB. When used together,the camera offers a stunning minimum illumination of 0.003 lx.

Remote Control Capability

The HDC-X300 is compatible with the RM-B150/B750 Remote Control Unit, RCP-700Series Remote Control Panel and MSU-700A/750 Master Setup Unit. These remote controllers cover the complete range of control parameters that the HDC-X300 provides, from basic camera control to sophisticated operations.

Optical ND Filter and Electronic CC Function

Optimum light and color control is easily achieved using the built-in optical Neutral Density (ND) filter wheel and electronic Color Correction (CC) function. The HDC-X300 uses electronic color correction to eliminate the need for optical color correction filters. This allows all filters on the filter wheel to be ND types, providing the operator with greater flexibility in depth of field and exposure control.

Specifications

Generic Specifications

Pickup device	3-chip 1/2-inch type 1.5-megapixel CCD
Pickup device	1440 x 1080
Optical system	F1.4 prism
Built-in filters	1: Clear, 2: 1/4ND, 3: 1/16ND, 4: 1/64ND
Lens mount	Sony 1/2-inch bayonet mount
Signal system	1080/59.94i, 1080/50i
Scanning system	59.94i/23.976PsF/29.97PsF selectable at 59.94i mode 50i/25PsF selectable at 50i mode
Minimum illumination	0.003 lx (F1.4, +48 dB gain, 64-frame accumulation)
Sensitivity (2000 lx, 89.9% reflectance)	F10 (typical)
Power requirements	DC 12V
Power consumption	17W
Signal outputs	HD SDI (BNC x1), Video (D-sub 15-pin), Tally (ini-jack)

Supplied Accessories

Operation manual	x 1
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Supplied Accessories

AC adaptor	x 1
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AC cable	x 1
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Tally Unit	x 1
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Gallery



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