

HDC-F5500

Super 35-mm 4K CMOS Camera System



NETWORKED LIVE

Overview

Capture even more unforgettable live moments

The extraordinary performance of this new camera system takes live entertainment production to the next level. Building on the success of Sony's acclaimed HDC-5500, HDC-F5500's Super 35-mm 4K CMOS sensor delivers extraordinary clarity and realism with every scene, from wide beauty shots to tight close-ups. Numerous workflow enhancements—including IP networking, remote multi-camera operation and in-CCU recording—enhance the most demanding live entertainment productions including sport, music, and drama.

Features

Super 35-mm 4K CMOS sensor and global shutter

At the heart of this camera system is Sony's Super 35-mm 4K CMOS sensor. Bringing unprecedented creative expression to the HDC camera series, this large sensor achieves high sensitivity with an impressive signal-to-noise ratio. It's teamed with Sony's class-leading global shutter technology to capture stable, precise 4K (UHD) images even with fast-moving subjects: ideal for sport and live entertainment productions involving LED displays and laser beams.

Motorized eight-step ND filter

Built into the camera's rugged chassis, the eight-step optical Neutral Density filter offers a wide ND range of 0.3 (1/2 = 1 stop)

to 2.4 (1/256 = 8 stops) in 0.3-stop increments, allowing camera operators to precisely control the amount of light entering the camera for enhanced creative expression. The ND filter can also be controlled remotely, saving time and streamlining workflow in pressured live production environments.

New viewfinder slide mechanism

Operability is enhanced with a brand new viewfinder slide mechanism that minimizes the camera operator's body movements while panning. By sliding the viewfinder closer to the axis of tripod rotation, this ensures an improved viewing angle for the operator. This innovative feature is valuable while shooting in restricted locations at dynamic sport and live events, such as on narrow scaffolding platforms.

Rich focus assist functions

Three focus positions can be assigned to preset buttons, making it quick and easy to find preset focal positions during live shooting.

ARIA (Automatic Restoration of Illumination Attenuation)

F drop and peripheral light loss are unwanted physical phenomena especially in long-distance object shooting.

Ergonomic grip

The widened handle is easy to grip, even when wearing gloves. Visibility through the grip area has also been improved.

Side tally lamp

The side-mounted LED tally lamp next to the camera number improves visibility of tally status.

Web menu control

The menu of the optional HDCU-5500 Camera Control Unit can be accessed remotely via an intuitive web browser interface, allowing integrated monitoring of optical levels and CCU status

of multiple devices from a single PC. It also offers other useful functions, such as the CCU file for preparation.

In-CCU record option

Adding the optional HKCU-REC55 to the HDCU-5500 Camera Control Unit allows 4K video and audio to be recorded directly to the CCU with no other external recording device needed. Recording can be controlled by a video engineer on the CCU side, allowing the camera operator to focus on capturing beautiful images without distractions.

Ready for IP Live

Both the HDCU-5000 with IP option and the HDCE-TX50 camera extension adaptor allow seamless integration of the new camera system into an all-IP live production system. This brings a more efficient workflow to support every IP-oriented live production budget.

Specifications

General

| | |
|-----------------------|--|
| Power requirements | 240 V AC, 1.4 A (max.), 12 V DC, 9.5 A (max.), 240 V DC, 1.05 A (max.) |
| Operating temperature | -20 °C to +45 °C (-4 °F to 113 °F) |
| Storage temperature | -4°F to 140°F (-20°C to +60°C) |
| Mass | Approx. 5.25 kg (11 lb 9.2 oz) (Unit only) |

Imager

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|--------|--|
| Imager | Super 35-mm 4K CMOS sensor with global shutter |
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|------|-------------|
| Form | Single chip |
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Electrical characteristics

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|-------------|---|
| Sensitivity | T10 with 4K/59.9P T11 with 4K/50P (at 2000 lx with 89.9% reflectance) |
|-------------|---|

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|-----------|--------|
| Image S/N | -62 dB |
|-----------|--------|

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|-----------------------|--|
| Horizontal resolution | 2000 TV lines (at center of screen) 5% or higher modulation |
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|----------------------|--|
| Geometric distortion | Negligible (not including lens distortion) |
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Optical system specifications

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| Built-in filters | ND filters 1: CLEAR, 2: 1/2ND, 3: 1/4ND, 4: 1/8ND, 5: 1/16ND, 6: 1/32ND, 7: 1/64ND, 8: 1/128ND, 9: 1/256ND |
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Input/output connectors

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| CCU | Optical/electrical multi-connector (1) |
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|---------------------------|---|
| LENS | 12-pin (1) |
| VF | 20-pin (1) |
| MIC 1 IN | XLR 3-pin, female (1) |
| AUDIO IN CH1, CH2 | XLR 3-pin, female (1 each) When AUDIO switch is set to MIC: – 60 dBu (can be selected up to – 20 dBu by menu operation), balanced When AUDIO switch is set to LINE: 0 dBu, balanced |
| INTERCOM 1, INTERCOM 2 | XLR 5-pin, female (x1 each) |
| EARPHONE | 4-pole mini jack (1) (2-pole mono, 3-pole stereo, 4-pole CTIA standard, 4-pole OMTP standard) |
| DC IN | XLR 4-pin (1), 10.5 V to 17 V DC |
| DC OUT | 4-pin (1), 10.5 V to 17 V DC, max. 0.5 A (This may be limited by the imposed load or input conditions.) |
| | 2-pin (1), 10.5 V to 17 V DC, max. 2.5 A |

(This may be limited by the imposed load or input conditions.)

| | |
|---------------------|--|
| SDI 1, SDI 2, SDI 3 | BNC-type (x1-each) |
| SDI MONI | BNC-type (1) |
| TEST OUT | BNC-type (1) |
| PROMPTER/GENLOCK | BNC-type (1) PROMPTER 1 Vp-p, 75 Ω GENLOCK HD: SMPTE ST274, tri-level sync, 0.6 Vp-p, 75 Ωx SD: Black burst (NTSC: 0.286 Vp-p, 75 Ω/PAL: 0.3 Vp-p, 75 Ω) |
| RET CTRL | 6-pin (1) |
| REMOTE | 8-pin (1) |
| TRACKER | 12-pin (1) |
| CRANE | 12-pin (1) |
| USB | USB 2.0 Type A 4-pin (1) (for connecting USB drive) |
| NETWORK TRUNK | RJ-45 type 8-pin (1) |

Supplied accessories

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Before Using This Unit (1),
 Operating Instructions (CD-ROM)
 (1), Cable clamp belt (1 set),
 Screws (+B3 × 8) (2), Attached
 label (1), Viewfinder slide unit,
 Handle clamp

Related products



MSU-3500

Master setup unit,
 multi-camera remote
 control panel for
 system cameras
 (vertical type)



MSU-3000

Master setup unit,
 multi-camera remote
 control panel for
 system cameras
 (horizontal type)



HDCU-5000

Camera Control Unit
 (CCU) for HDC-5500
 and HDC-3500/3100
 series system cameras



HDCU-5500

IP-ready Camera
 Control Unit (CCU)
 for HDC-5500 4K/HD
 system camera



HDCE-TX50

IP camera extension
 adaptor for remote
 live production
 (transmitter)



RCP-3500

Remote-control panel
 for HDC/HSC/HXC
 series cameras



RCP-3501

Remote-control panel
 for HDC/HSC/HXC
 series cameras



HZC-UG50 / HZC-UG50M / HZC-UG50W

Software licenses for
 shooting 1080/RGB
 4:4:4 & User Gamma
 with HDC-5500/3500
 series system camera



HKCU- REC55

Recording option for
HDCU-5500 and
HDCU-3500 CCU

HDCE- RX50

IP CCU extension
adaptor for remote
live production
(receiver)

HZCE- JX50F / HZCE- JX50FM / HZCE- JX50FW

4K/HD JPEG XS
SOFTWARE

HZCE- JX50H / HZCE- JX50HM / HZCE- JX50HW

HD JPEG XS
SOFTWARE

Gallery



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