

## 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

|        |  |
|--------|--|
| Imager | Super 35-mm 4K CMOS sensor with global shutter |
|--------|--|

|      |             |
|------|-------------|
| Form | Single chip |
|------|-------------|

## Electrical characteristics

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

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

|                       |  |
|-----------------------|--|
| Horizontal resolution | 2000 TV lines (at center of screen)<br>5% or higher modulation |
|-----------------------|--|

|                      |  |
|----------------------|--|
| Geometric distortion | Negligible (not including lens distortion) |
|----------------------|--|

## Optical system specifications

|                  |  |
|------------------|--|
| 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 |
|------------------|--|

## Input/output connectors

|     |  |
|-----|--|
| CCU | Optical/electrical multi-connector (1) |
|-----|--|

|                           |   |
|---------------------------|---|
| 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)<br>When AUDIO switch is set to MIC: – 60 dBu (can be selected up to – 20 dBu by menu operation), balanced<br>When AUDIO switch is set to LINE: 0 dBu, balanced |
| INTERCOM 1,<br>INTERCOM 2 | XLR 5-pin, female (x1 each)   |
| EARPHONE                  | 4-pole mini jack (1)<br>(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<br>(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)<br>PROMPTER 1 Vp-p, 75 Ω<br>GENLOCK<br>HD: SMPTE ST274, tri-level sync, 0.6 Vp-p, 75 Ωx<br>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)<br>(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



