

# HDC-F5500

Super 35mm 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 35mm 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 35mm 4K CMOS sensor and global shutter**

At the heart of this camera system is Sony's Super 35mm 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.

### **Motorised 8-step ND filter**

Built into the camera's rugged chassis, the 8-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 minimises 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 more efficient workflow to support every IP-oriented live production budget.

## Specifications

### General

Power requirements	240 V AC, 1.4 A (max.), 12V 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	-20 °C to +60 °C (-4 °F to 140 °F)
Weight	Approx. 5.25 kg (11 lb 9.2 oz) (Unit only)

### Imager

Imager	Super 35mm 4K CMOS sensor with global shutter
Method	Single chip

### Electrical characteristics

Sensitivity	T10 with 4K/59.94P T11 with 4K/50P (at 2000 lx with 89.9% reflectance)
Signal-to-noise ratio	-62 dB
Horizontal resolution	2000 TV lines (at center of screen) 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
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## Input/output connectors

CCU	Optical/electrical multi-connector (1)
LENS	12-pin (x1)
VF	20-pin (x1)
Audio input	MIC 1 IN : XLR 3-pin, female (x1) AUDIO IN CH1, CH2 : XLR 3-pin, female (x1 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	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	SDI 1 : BNC (x1) SDI 2 : BNC (x1) SDI 3 : BNC (x1)
SDI MONI	BNC (x1)
TEST OUT	BNC (x1)
PROMPTER/GENLOCK	BNC (x1) 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)

## Input/output connectors

USB	USB 2.0 Type A 4-pin (1) (for connecting USB drive)
NETWORK TRUNK	RJ-45 type 8-pin (1)

## Supplied accessories

Supplied accessories	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
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## 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



### Camera and Display Plugin

Design, visualise and refine your virtual production shots



### Color Calibrator

Fine tune colour reproduction for your virtual production

# Gallery



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