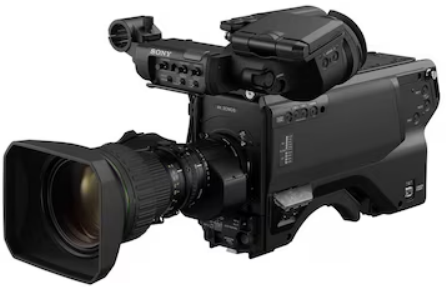
SONY

HDC-5500R

2/3-inch 4K 3-CMOS sensor portable system camera



Overview

Expand your creative horizons with the HDC-5500R, offering smooth handling and precise shooting for simultaneous HDR and SDR production. The HDC-5500R also features Extended Dynamic Range* and Multi Sensitivity Modes for flexible operation in challenging lighting conditions. This 2/3-inch 4K 3-CMOS image sensor portable system camera delivers direct 4K output** with outstanding image quality and an impressive S/N ratio. It also supports wireless operation, with a choice of optional outside panels for added versatility.

*Feature name subject to change.
** Optional software or hardware is required.

Features

Imaging Power Unleashed
The high-performance 2/3-inch 4K 3-CMOS image sensor at the heart of the HDC-5500R achieves extremely high sensitivity with an impressive signal-to-noise ratio of -64 dB. Sony's class-leading Global Shutter Technology eliminates rolling shutter distortion and the risk of banding under artificial light, allowing the HDC-5500R to capture stable, precise 4K (UHD) images even with fast-moving objects.
The HDC-5500 Series can also output up to 4K 120P as a standalone camera, so it can also be used wirelessly for 4K production.

Extended Dynamic Range and Multi Sensitivity Mode*
Wider dynamic range captures reduce highlight clipping, delivering richer detail and improved expression in high contrast scenes such as music concerts and outdoor sports. The Multi Sensitivity Mode additionally enables switching between multiple predefined sensitivity profiles while maintaining a high S/N ratio, ensuring consistent image quality as lighting conditions change.

* Availability: planned via software update in December 2026 or later.

Wide Colour Space
The HDC-5500R supports wide colour spaces including ITU-R BT.2020, S-Gamut3, and S-Gamut3.Cine, as well as SG3 (LIVE GRADE) and SG3.Cine (LIVE GRADE), for HDR and cinematic workflows.

4K 4x / HD 8x HFR direct 4K output
When used with HDCU-5000, the HDC-5000 Series supports up to 4K 4x and HD 8x HFR options*. Users can replay slow motion in 4K 4x.
The HDC-5500R also supports Parallel Ads®, to simultaneously capture up to four different time-interlaced advertisements on stadium LED screens, allowing broadcasters to deliver tailor-made content to suit different markets around the globe. Additionally, the 4X parallel advertisements support enables broadcasters to engage with different sponsors simultaneously.

* Optional software or hardware is required.

Rich Focus Assist
The Viewfinder Detail function adds dedicated image-enhancing edge signals directly to the viewfinder, helping the operator to focus quickly and precisely in any shooting situation. It's complemented by a Focus Assist Indicator and advanced Focus Position Meter function. A Dynamic Contrast setting can also enhance the visibility of subjects in low-light areas on the VF, making framing and focusing easier in dark situations.

Video Trunk
The HDC-5500R features a versatile Video Trunk, routing external video signals through the camera system for simplified connectivity. It supports a wide range of formats, including HD, 4K, SDR/HDR, and both progressive and dual interlaced signals, for flexible and high quality integration with OB vans, studios, and live production workflows.

Multiple Prompter Line
A Multiple Prompter Line provides dedicated SDI return paths between the camera and CCU for teleprompter feeds, floor-monitor signals, or AR/virtual-studio graphics over existing cabling. It supports a wide range of return formats—including HD, 4K, SDR/HDR, and both progressive and interlaced signals—ensuring flexible configuration options and stable, low latency delivery for live and studio productions.

Network Trunk
HDC-5500R features high-speed data transmission with Network Trunk (via LAN port), supporting up to 1 Gbps.

3D LUT Control
HDC-5500R provides 3D LUT functionality to streamline colour management across the camera system. LUTs can be recalled with scene files, and camera operators can preview the intended look directly in the viewfinder, supporting both broadcast and cinematic workflows.

Pre-installed VF Slide
With the pre-installed viewfinder slide mechanism, camera operators can improve shooting comfort by minimising their body movements during panning.
This feature is especially useful in cramped spaces like tracked dollys, stadium platforms, and scaffolding, where limited mobility can hinder the desired shots.
The pre-installed slide mechanism enhances shooting flexibility and usability, with a smoothly-sliding viewfinder that can be moved closer to the axis of tripod rotation to reduce changes in the viewing angle, making it perfect for various shooting environments.

Unified Intercom Panel
The integrated design of the intercom panel boasts controllable PGM3, TRACKER VR, and earphone MIC across all models, ensuring a consistent layout for customers worldwide. The controllable settings encompass PROD/ENG/OFF, while TRACKER and PGM3 can be easily assigned to different functions.The INCOM panel has an orange backlight to improve visibility in dark studios.

IP Remote Production
Adding the optional HDCE-TX50 IP camera extension adaptor allows the HDC-5500R to output ST 2110 signals* without requiring a separate CCU (Camera Control Unit), simplifying connection to IP-based remote production systems and supporting visually lossless JPEG XS capability*.

* Optional software or hardware is required.

Simultaneous HDR and SDR Production
The HDC-5500R can capture High Dynamic Range images, supporting Sony's SR Live workflow for simultaneous HDR/SDR production with reduced inventory requirements.

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

Gallery