Ikegami

4K HDR

4 K/HD Multi-Purpose Camera

UHL-X40

The UHL-X40 is a 4K/HD 3CMOS multi-purpose separate optics 2-piece camera, featuring an ultra-compact, lightweight, and power-efficient broadcast quality camera head. The low payload weight improves the performance of the pan & tilt head, and the size is less intrusive.
The CMOS sensor incorporates a global shutter pixel architecture, enabling the camera to capture natural images even in challenging situations.
The UHL-X40 is ideal for many point-of-view camera applications, including high-end surveillance.

* With optional tally lamp

■ Ultra-Compact Camera Head

Featuring unique 2-piece construction, the camera head weighs only 1.1 kg (2.4 lb) and the heat generated is significantly lower than from conventional compact 4K cameras. The UHL-X40 fits the applications where size and heat generated by the camera head matter, and where high picture quality is essential.
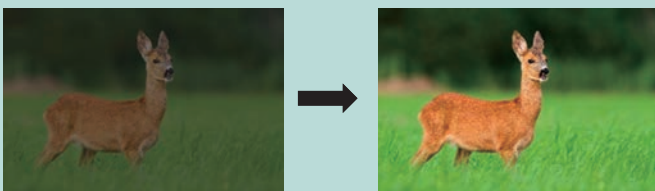
■ UHD Global Shutter Imager

A 2/3-inch optical system using three UHD CMOS sensors boasts a signal-to-noise ratio of 62dB and a sensitivity of F11 (2160p 50) / F10 (2160p 59.94). The high dynamic range of the sensor produces high-quality images with excellent color reproduction. The UHL-X40 is equipped with newly developed global shutter CMOS sensors which capture natural images with less interaction when shooting LED screens, clear of geometric distortion during still frame replay, and free from flash band effects when the camera is shooting under strobe lights or flashes from still cameras.

■ Key Features

Optical Vignetting Correction (OVC)

The UHL-X40 includes automatic vignetting correction and F-stop ramping compensation for the zoom lens, minimizing dark corners and overall loss of light when the lens is in telephoto mode and the iris is open.

* With supported lenses

HD Simultaneous Output

The HD outputs from the CCU can be selected between the full UHD frame (3840 x 2160) that is natively captured or, the center area of interest as an HD (1920 x 1080) signal cutout from the native UHD frame. Two angles of view of the same scene and both formats are simultaneously output.
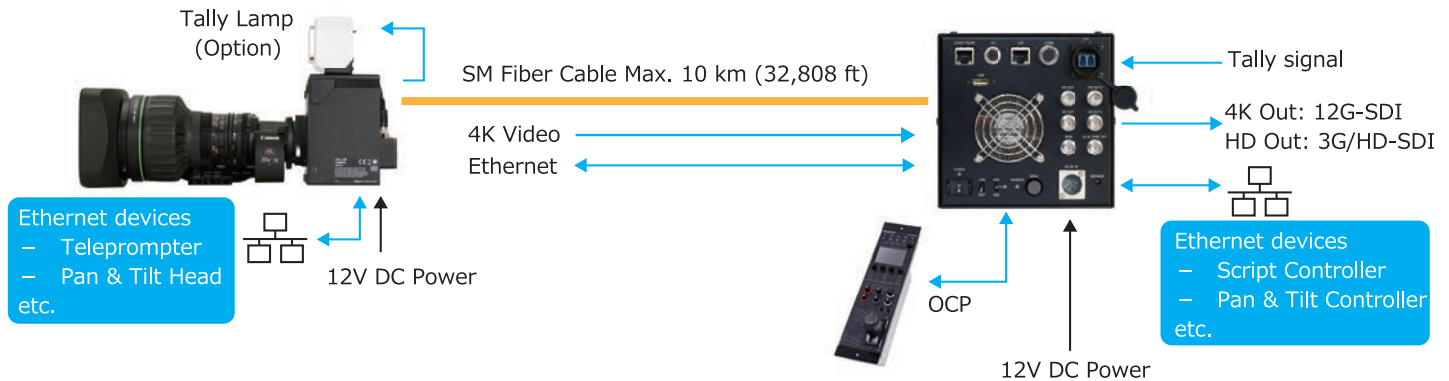
1920 × 1080

3840 × 2160

1920 × 1080

■ 2-Piece Construction With Fiber Extension

Connection from camera head to CCU is via up to 10 km of standard duplex SM (single mode) fiber. Not only the uncompressed 4K/HD video but also a 100BASE-TX Ethernet trunk channel are available through the fiber extension for transport of PTZ control commands, script data of teleprompter, etc.

System Diagram

Tally Lamp (Option)

SM Fiber Cable Max. 10 km (32,808 ft)

Tally signal

4K Out: 12G-SDI
HD Out: 3G/HD-SDI

4K Video
Ethernet

Ethernet devices
– Teleprompter
– Pan & Tilt Head
etc.

12V DC Power

OCP

Ethernet devices
– Script Controller
– Pan & Tilt Controller
etc.

12V DC Power

■ Ratings & Performance

Scanning System	2160p 59.94 Hz or 50 Hz	
Imager	3 x global shutter UHD CMOS sensors	
Effective Resolution	3840 (H) x 2160 (V)	
Output Format	3840 x 2160 59.94p, 50p	
	1920 x 1080 59.94p, 50p	
	1920 x 1080 59.94i, 50i	
	1280 x 720 59.94p, 50p	
	1920 x 1080 29.97psF, 25psF Option	
Dimensions（W × H × D）	Camera Head : 120 x 128 x 111.9 mm 4.7 x 5.0 x 4.4 inches	CCU:145 x 145 x 173 mm 5.7 x 5.7 x 6.8 inches
Weight	Camera Head : approx. 1.1 kg approx. 2.4 lb	CCU:approx. 2.6 kg approx. 5.7 lb
Input Voltage	Camera Head : 12V DC	CCU : 12V DC
Power Consumption	Cemara Head : approx. 28W	CCU : approx. 82W
SN Ratio	62 dB	
Sensitivity	F11 (2160p / 50) / F10 (2160p / 59.94)	