Ikegami

4K/HD Multi Porpose Camera

4K | **HD**

UHL-43

The UHL-43 is a one-piece Native 4K Ultra High Definition Digital Multi Purpose Camera, employing the same sensors as the UHK-430/435 "UNICAM XE" series cameras, and achieving the same performance.

The camera provides the same operation and same workflow as the UHK-430/435 system cameras, and due to its compact one-piece form factor, it supports various POV applications such as flash and studio robotic camera, jib and Steadicam camera, traffic and weather camera, scoreboard camera, as well as, a wide range of surveillance applications.

Moreover, the camera provides various kinds of 4K main output including 12G-SDI and Quad Link 3G-SDI, realizing flexible 4K system integration.

*3G-SDI Quad Link output is an option.
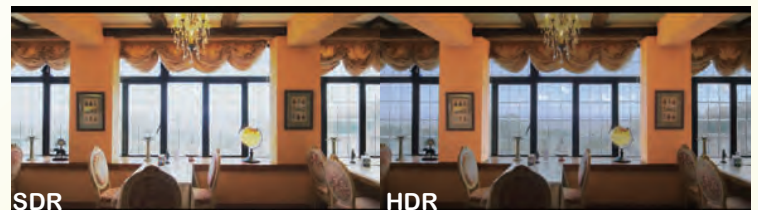
*12G-SDI output is an option.

Real 4K Resolution by 2/3-inch Native 4K CMOS Sensors

The UHL-43 utilizes three 2/3-inch 8 megapixel CMOS sensors, each capable of capturing native 4K 3840 x 2160 reolution images. It offers an excellent sensitivity of F10 (in 4K/60p) and a remarkable signal-to-noise ratio.

Unlike single chip cameras or cameras using pixel-offset technology, three native 4K CMOS sensors and prism optics provide real 4K resolution, superior color reproduction and no color aliasing.

HDR（High Dynamic Range）Mode

The camera provides an HLG (Hybrid Log Gamma) mode, conforming to ITU-R BT.2100 which is an international standard for HDR. It is now possible to expand the range represented from dark to bright, providing superb bright pictures with High Dynamic Range, and also achieves rich colors with wide color gamut.

SDR　　　HDR

4K/HD Output

The camera outputs the down-converted HD/3G picture from the full 4K image for main output. 4K output is also available as option.

12G-SDI Interface

The camera has been designed taking into consideration that it would support 12G-SDI output interface to flexibly support future trends for 4K systems.
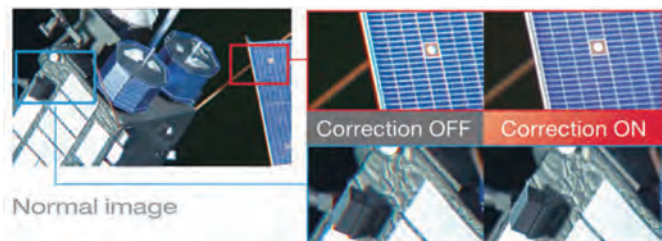* 12G output is an option.

Rear panel of UHL-43

Indicator

The camera provides front tally, camera number (2 digit) on the front side, and rear tally on the rear side, increasing visibility.

Lens chromatic aberration correction function

Acquires correction data from serial digital lenses and automatically corrects lens chromatic aberration based on lens zoom, focus, and iris position information.

Correction OFF   Correction ON

Normal image

Options

The UHL-43 provides various options allowing flexible operation depending on the customer's operating style and application needs.

ICCP/ISCP Connection

ICCP connection provides Ikegami's traditional command control using a CP cable.
And ISCP command connection allows camera control via a third party device such as a Pan/Tilt system.

* When ICCP/ISCP control is used, Ethernet control is not available because ICCP/ISCP connector and LAN port can not coexist.

3G-SDI Quad Link Output

By adding a connector panel with 4xBNC connector on the rear of the camera, 1x 3G-SDI Quad Link output or 4x 3G/HD-SDI output is available.

12G Optical Interface

In addition to ICCP/ISCP and 3G-SDI Quad Link interface, 12G Optical transmission by using a single mode fiber cable is available. With this interface, the camera provides long distance video transmission, which is ideal for applications such as traffic and weather camera, etc.

Rear panel of UHL-43 with ICCP/ISCP, 3G-SDI Quad Link, 12G Optical Interface

Portable Conversion Kit

An optional kit is available to convert this box camera for handheld operation with top handle and 2-inch viewfinder, as well as, shoulder pad and rear bracket for battery and wireless transmitter provided by a third party etc.

4K/HD Multi Purpose Camera
UHL-43

Ratings/Performance

Camera Head

Image Sensor	Three 2/3-inch Native 4K CMOS sensors, 8M pixel
Sensitivity	F10 @ 4K 59.94p/HD 59.94i F11 @ 4K 50p/HD 50i (4K is option)
Optical System	2/3-inch R,G,B Prism
Lens Mount	2/3-inch Bayonet
Filter	ND 1:CLEAR 2: 1/4 3: 1/8 4: 1/16 5: 1/64 CC A:3200K B:4300K C: 6300K D: CROSS E: OPTION
S/N Ratio	62dB in HD mode (typical)
Limiting Resolution	2000 TVL (typ.) @ 4K 59.94p (4K Option) 1000 TVL (typ.) @ HD
Gain	-6, -3, 0, +3, +6, +9, +12dB
Gamma	OFF, 0.35, 0.4, 0.45
Electrical Shutter	1/100, 1/120, 1/250, 1/500, 1/1000, 1/2000

General

Operating Voltage	DC +11 to +17 V XLR 4pin (x1)
Ambient Temperature	Operation: -20°C to +45°C (-4°F to +113°F) Storage: -20°C to +60°C (-3.9°F to +140°F)
Relative Humidity	30 % to 90 % (Non-condensing)
Dimensions	W 145 x H 155 x D 169mm (excluding protrusions) (W 5.7 x H 6.1 x D 6.7 inch)
Weight	approx. 2.6kg (5.8lb)

Input/Output

4K/HD-SDI Main Output * 4K Output is option.	BNC CN x1 0.8Vp-p 75ohm 12G-SDI: SMPTE 2082 (4K Option) 3G-SDI: SMPTE 424/425 Level A/B HD-SDI: SMPTE 292M BNC CN x4 0.8Vp-p 75ohm (Option) 3G Quad Link 2 Sample Interleave division: SMPTE 424/425 Level A/B (4K Option) 3G-SDI: SMPTE 424/425 Level A/B HD-SDI: SMPTE 292M
HD-SDI Monitor Output	BNC CN x1 0.8Vp-p 75ohm 3G-SDI: SMPTE 424/425 Level A/B HD-SDI: SMPTE 292M
Reference(Genlock) Input/Output	BNC In/Out CN x1 0.8Vp-p 75ohm ・Reference Input HD: Tri-Sync SMPTE 274M 0.6Vp-p 75ohm SD: Black Burst Signal (NTSC: 0.286Vp-p, 75ohm PAL: 0.3Vp-p, 75ohm) ・Reference Output HD: Tri-Sync SMPTE 274M 0.6Vp-p 75ohm
Lens	HR10A-12pin x1 Compliant with TR-B37 standards
Remote Control	Ethernet: 8P8C (RJ45) x1 *PoE Non-compliant ICCP/ISCP: PROC05-8pin x1 (Option)
USB	USB 2.0 Type-A 4pin x1
I/O	HR10A-10pin x1
DC Input	XLR-4pin
Analog Audio Input	XLR-3pin x1 ・Input Level Step: -60, -50, -40, -30, -20, -10, 0, +4 dBu Variable: ±10 dBu ・Power Supply OFF/+48V

Design and specifications are subject to change without notice.