Ikegami

4K/HD Multi Purpose Camera

4K **HDR**

UHL-43

The UHL-43 is a 4K/HD Multi Purpose Camera that allows users to operate in HD while preparing for future 4K production. It is equipped with HD/3G-SDI formats as standard, and can be upgraded to a 4K/12G-SDI camera with the purchase of a software license. Employing the same sensors as the UHK-430/435 "UNICAM XE" series cameras, the UHL-43 produces superb high quality images. In addition, due to its compact one-piece form factor, it is suitable for pan-tilt camera systems and monitoring cameras that shoot their subjects from various angles.

Real 4K Resolution by 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 resolution 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.
In addition, even when operating in HD, the high resolution of the 4K sensors will help produce the highest quality HD images. (4K signal output is available only when the camera is 4K upgraded.)

4K Upgrade

With the purchase of a software license, the UHL-43 can be upgraded to a 4K camera. A smooth transition from HD production to 4K production can be realized.
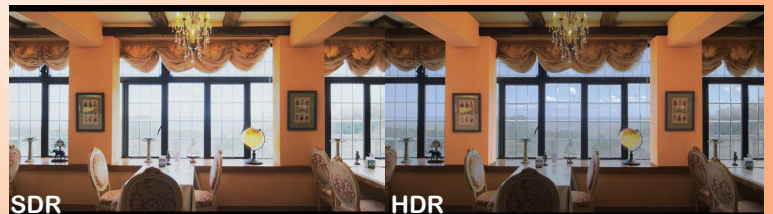
4K/HD Multi Format (4K Option)

The camera is able to output both 4K and HD signals, after upgrade to 4K. For HD/3G-SDI, the camera outputs a down-converted picture from the full 4K image or a cut-out HD image, including the ability to control the position of the cutout.

12G-SDI Output (4K Option)

Equipped with a 12G-SDI Interface port as standard, the UHL-43 can flexibly transition into 4K operation from HD operation when the 4K upgrade is purchased. Also, a 3G-SDI Quad Link interface is available as a factory order option.

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

Various Options

Various options prepared for different camera applications
・Attachment of a handle, shoulder pad, and viewfinder VFL201D
 (Suitable when connecting with compact wireless transmitter)
・Quad Link SDI output option
・Optical Signal output option

・50℃ heat resistance option (* Upgraded cooling fan option)
・ICCP/ISCP option
 (ICCP/ISCP command with the conventional
  8-pin connector is available for 3rd party camera control)

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	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

Rear panel of UHL-43(standard)

Rear panel of UHL-43 with optional 12G-OPT and Quadlink

CE