Ikegami

4K/HD Multi Purpose Camera

4K HDR

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 a traffic and weather camera, scoreboard camera, flash and other robotic camera, as well as, a wide range of surveillance applications.
Moreover, the camera provides various kinds of 4K main output including 3G-SDI Quad Link and 12G-SDI, realizing flexible 4K system integration.

   *3G-SDI Quad Link output are options.

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, concorming 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 gumut.

SDR   HDR

4K/HD Output

The camera can output not only native 4K , but also HD/3G-SDI signals for main output.
For HD/3G-SDI, the camera can output the down-converted picture from the full 4K image or the cut-out HD image, including the ability to control the position of the cutout.

12G-SDI Interface

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

Rear panel of 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
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 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 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 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 BTA S-1005B 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