



Ikegami **image**



HUNGRY FOR DETAILS

IKEGAMI IS A LEADING MANUFACTURER of specialized cameras, image processing and transmission equipment. Ikegami was founded in 1946 in Tokyo, Japan. Today around 800 employees are working in 3 factories and 9 sales and service organizations all over the world.

Ikegami has consistently created the most advanced products in all image processes, namely image, transmission, processing, recording and display. Ikegami Electronics (Europe) GmbH in Neuss, Germany, was founded in 1970 and it is the sales and service organization for Europe and Africa.

Ikegami has an office in the UK, a regional office in Dubai and works with distributors, system integrators and dealers throughout Europe, Middle East & Africa.

EMMY AWARDS



- 1981** Development of Digital Computers for automatic adjustment of colour studio cameras
- 1983** Development of the EC-35 Electronic Cinematography Camera
- 1994** Development of Skin-Tone Detail, Edge Control Enhancement Technology
- 2010** Development and Production of Portable Tapeless Acquisition

MEDICAL SYSTEMS

60 ULTRA HD CAMERAS 4K

- 60 **NEW** **MKC-750UHD** | 3CMOS 4K Medical Grade Camera
- 61 **NEW** **MKC-704KHD** | 3CMOS High Sensitive Full-HD Medical Grade Camera
- 62 **PRELIMINARY** **MKC-704KHD** | Native 4K single chip Medical Grade Camera

63 FULL-HD CAMERAS

- 63 **MKC-700HD** | 3CMOS High Sensitive Full-HD Medical Grade Camera
- 64 **MKC-310HD** | 3CMOS Full-HDTV Medical Grade Camera
- 65 **MKC-210HD** | 1CMOS Full-HD Medical Grade Ultra Compact Camera

66 CAMERA ADAPTORS

- 66 **NEW** **CFA-400 Series** | Surgery Microscope High Resolution Adaptors for 3 chips Full HD/4K Cameras

67 FULL-HD RECORDER

- 67 **MDR-600HD** | Medical Grade Digital Video Recorder

68 LCD COLOUR MONITORS

- 68 **PRELIMINARY** **MLW-2750UHD** | 27-inch 4K Multi-Format high Luminance LED Colour Monitor
- 68 **PRELIMINARY** **MLW-3110U** | 31-inch 4K LED Colour Monitor
- 69 **NEW** **MLW-2627C-DC** | 26-inch Full-HD 3G Multi-Format high Luminance LED Colour Monitor
- 69 **NEW** **MLW-2627C-3D** | 26-inch Full-HD 3D LED Colour Monitor
- 70 **MLW-2624C-DC** | 26-inch Full-HD 3G Multi-Format LCD Colour Monitor
- 70 **MLW-2424C-DC** | 24-inch Full-HD 3G Multi-Format Gamut LCD Monitor

- 71 **MLW-3225C** | 32-inch HDTV/SDTV Multi-Format LCD Colour Monitor

- 71 **MLW-3225C-3D** | 32-inch 3D HDTV/SDTV Multi-Format LCD Colour Monitor

- 71 **MLW-2150HD** | 21.5-inch Full-HD 3G Multi-LED Monitor

- 72 **Monitor Comparison Table**

73 ACCESSORIES FOR MEDICAL SYSTEMS

SECURITY SYSTEMS

76 FULL-HD CAMERAS (HD-SDI)

- 76 **ISD-2500HD** | Ultra High Sensitivity CMOS Colour Single-Chip HD-SD Camera
- 77 **ISD-220HD** | Full-HD Wide Dynamic Range Camera

78 IP NETWORK HD CODEC

- 78 **IEN-200HD** | HDTV/SDTV Network Video Encoder
- 78 **IDE-200HD** | HDTV/SDTV Network Video Decoder

79 HIGH PERFORMANCE DAY/NIGHT CAMERAS

- 79 **ICD-809P** | 1/3-inch High Resolution & Performance True Day/Night Camera
- 79 **ICD-879P** | 1/2-inch High Resolution & Performance True Day/Night Camera

80 FLAT SCREEN MONITORS

- 80 **ULE-217** | Full-HD 21.5-inch Security Surveillance TFT Monitor with HD-SDI
- 81 **ULM-193** | 19-inch Security Surveillance TFT Monitor
- 81 **ULM-173** | 17-inch Security Surveillance TFT Monitor

- 81 **ULM-153** | 15-inch Security Surveillance TFT Monitor

INDUSTRIAL SYSTEMS

84 INSPECTION

- 84 **TIE-Series** | Colour Visual Tablet Inspection Equipment
- 85 **POIE-Series** | Colour Powdered/Granulated Medicine Inspection Device

Ultra high sensitivity camera systems which are excellent in low light conditions. Wide dynamic range and exceptional colour reproduction.

NOTHING
ESCAPES - EVEN
IN THE DARK



ISD-2500HD



Newly developed CMOS Sensor is employed to achieve superb picture quality. The 1.47 Megapixel CMOS Sensor have wide dynamic range and, in principle, no smear. The Sensors include significant circuitry within the sensor itself, resulting in a digital video interface between sensor and Ikegami Camera DSP, all in a very small device with low power consumption. HD-SDI (59.94i, 50i, 30p, 25p) and NTSC or PAL (4:3) can be output simultaneously. RS-485 also available.

Ultra High Sensitivity CMOS Colour Single-Chip HD-SD Camera

- Ultra High Sensitivity
0.00016 lx F1.2 50% (Colour)
0.00004 lx F1.2 50% (B&W)
- Wide Dynamic Range Adjustment
- De-fog
- Focus EZ Function

RATINGS/PERFORMANCE

Image Sensor	2/3-inch CMOS Sensor
Effective Pixel	1280 (H) X 720 (V)
Pixel Size	7.1 um x 7.1 um
Synchronization	Internal and External
Video Output	HD: HD-SDI 1080 (59.94i/50i/30p/29.97i/25p) 720 (60p/59.94p/50p/30p/29.97p/25p) SD: VBS NTSC/PAL
External Control	RS-485
Limiting Resolution	650 TV Lines or more
Sensitivity	F22 at 2000lx
Minimum Illumination	0.00016 lx / F1.2 (IRE 50%, Colour mode); 0.00004 lx / F1.2 (IRE 50%, B/W mode)
Auto Iris	DC Iris
Auto Gain Control	ON (AGC, Hyper-AGC)/OFF (low, MID, HIGH)
Electronic Shutter	OFF, 1/100, 1/250, 1/500, 1/1000, 1/2000, 1/4000, 1/10,000, variable
Automatic Electrical Shutter	Fast, slow, response
Slow Shutter	X1, x2, x4, x6, x8, x12, x16, x24, x32, x64, OFF / AUTO / MANUAL
Backlight Compensation	Selectable 9x5 Areas
White Balance	ATW1/ATW2/AWC/Manual
Wide Dynamic Range	OFF/WDR / AUTO KNEE/ AUTO BLACK STRETCH
De-fog	OFF/ ON
Gamma Correction	0.45 / 0.75 / 1
Noise Reduction	Available
Electrical Zoom	X1, x2, x3, x4, x5, x6, x7, x8, x9, x10
Privacy Mask	Available, maximum 8 Areas (GREY, WHITE, BLACK)
Focus EZ	Available
Image Flip	Normal/ Flip / Mirror / Flip & Mirror
Lens Mount	CS-mount
Lens Flange Back	Available with adjustment Mechanism
Power Requirement	DC 12V / AC 24V
Dimensions/Weight	W 78 x H 58 x D 1400 mm / 650 g



Example of application

ISD-220HD



The ISD-220HD is the latest addition to Ikegami's renowned stable high resolution 1/3" CMOS Sensor 1920(H) x 1080(V) Camera and Ikegami wide dynamic Range which allows to provide the optimal video quality required for Professional Security Systems.

Full-HD Wide Dynamic Range Camera

- High Sensitivity and high Resolution 1/3-inch CMOS Sensor
- Resolution: CS-mount Lens adaptive 1920 x 1080
- Scanning: Progressive Smearless/ Automatic Electronic Shutter
- Backlight Correction/Internal Sync
- Auto White Balance / Auto Iris (DC Iris)
- Privacy Masking
- RS-485 I/F/Flange Focus adjustable
- Focus EZ Function

RATINGS / PERFORMANCE

Sensor	1/3-inch CMOS
Effective Pixel Number	1920 (H) X 1080 (V)
Synchronization	Internal: Crystal lock
Aspect Ratio	16 : 9
Video Output	HD-SDI VBS 1.0 Vp-p / 75 Ω
Limiting Resolution	1000 TV Lines or more
Scanning	Progressive
Minimum Illumination	0.7 lx / F 1.4 (59.94 i, Sens-up off, IRE 50 %, Colour) 0.35 lx / F 1.4 (30 p, Sens-up off, IRE 50 %, Colour) 0.022 lx / F 1.4 (59.94 i, Sens-up on, IRE 50 %, Colour) 0.07 lu / F 1.4 (59.94 i, Sens-up off, IRE 50 %, B/W) 0.035 lx / F 1.4 (30 p, Sens-up off, IRE 50 %, B/W) 0.0022 lx / F 1.4 (59.94 i, Sens-up on, IRE 50 %, B/W)
Auto Gain Control	ON (AGC, Hyper-AGC) / OFF (low, MID, HIGH)
Electronic Shutter Speed	1/30 to 1/10000 sec. FL (Flicker less)
White Balance	ATW1 / ATW2 / AWC / Manual
Backlight Correction	Available (ON / OFF / SPOT Level Adj.)
Lens Mount	CS mount
External Control	RS-485
Iris Control	DC iris
Day / Night	Removable IR-cut Filter
Privacy Mask	Availavle max. 8 Zones setting
Digital Output	HD-SDI 1080i (59.94 / 50), 720P (59.94 / 50)
Analogue Output	1 Vp-p Composite Signal 75 Ω BNC; DC 12V / AC 24V; W 75 x H 65 x D 136 mm / 650g

IEN-200HD



IDE-200HD



The IEN-200HD/IDE-200HD are the Stand Alone PoE Network Video Codec's from Ikegami, which deliver high quality video utilizing the highly efficient H.264 compression format. The IEN-200HD encoder and IDE-200HD decoder support up to 1920x1080 Full-HD image size.

HDTV/SDTV Network Video Encoder

- HD-SDI Video Input
- Full Frame Rate
- SD Card On-board
- Privacy Masking
- Power over Ethernet
- Support up to Full-HD (1920x1080) Video Format

RATINGS/PERFORMANCE

Video Input	HD-SDI, 1080i(50/59.94), 720p(50/59.94), SD-SDI, 480i, 575i
Audio Interface	Stereo 1 ch in/output (Duplex), Embedded audio 1 ch input (Digital)
Compression Method	H.264, JPEG (Dual Codec)
Picture Size	1920 x 1080, 1280 x 720, 720 x 575, 720 x 480
Bit Rate / Frame Rate	384 Kbps-12 Mbps (CVR/VBR) / 7 steps (max. 30 fps at 1080i format)
Audio	Stereo 1 ch in/output (duplex), Embedded audio 1 ch input (Digital)
Embedded Audio	2 ch based on SMPTE-299M
Streaming	Unicast, Multicast
Alarm Input	Pre-alarm, Post-alarm
Interface/SD Card Interface	Ethernet (10 base-T / 100 base-TX) / Available
Privacy Protection	Privacy Mask Function
Dimensions/Weight	W 132 x H 44 x D 180 mm / 880 g
Power Consumption/Power Requirement	5 W or less / PoE, DC 12 V, AC 24 V

HDTV/SDTV Network Video Decoder

- HD-SDI Video Output
- Full Frame Rate
- SD Card On-board
- Power over Ethernet
- Support up to Full-HD (1920x1080) Video Format

RATINGS/PERFORMANCE

Video Output	HD-SDI, 1080i(50/59.94), 720p(50/59.94), SD-SDI, 480i, 575i
Audio Interface	Stereo 1 ch in/output (duplex), Embedded audio 1 ch input (digital)
Compression Method	H.264, JPEG (Dual Codec)
Picture Size	1920 x 1080, 1280 x 720, 720 x 575, 720 x 480
Frame Rate	7 steps (max. 30 fps at 1080i format)
Audio	Stereo 1 ch in/output (duplex), Embedded audio 1 ch input (digital)
Embedded Audio	2 ch based on SMPTE-299M
Interface/SD Card Interface	Ethernet (10 base-T / 100 base-TX) / Available
Dimensions/Weight	W 132 x H 44 x D 180 mm / 880 g
Power Consumption/Power Requirement	5 W or less / PoE, DC 12 V, AC 24 V

ICD-809P



1/3-inch High Resolution & Performance True Day/Night Camera

RATINGS / PERFORMANCE

Pickup Device (H x V)	1/3-inch interline Transfer CCD (752 x 582)
Sync System	INT / Line-Lock (Phase adjustable)
Scanning System	2:1 interlaced PAL
Video Output	VS 1.0Vp-p / 75 Ω
Limiting Resolution	540 TV Lines (Colour), 570 TV Lines (B/W)
S/N Ratio	52 dB or better
Min. Illumination	0.15 lx / F1.2 (Colour), 0.015 lx (B/W)
Day / Night Function	Auto / Remote / Manual selectable
Back Light Compensation (BLC)	On / Off switchable (Level adjustable)
Auto Gain Control	On (AGC, Hyper AGC) / Off (Low / Mid / High) switchable
Auto Iris Function	Video / DC selectable (DC iris level adjustable)
Menu Control	On Screen Display / RS-485
Lens Mount	CS-mount (C-mount adaptor can be used)
Dimensions / Weight	W 62 x H 55 x D 122 mm / 660 g (AC 230V), 420 g (ACDC)
Power Requirement	AC 230V ± 15% 50 Hz, AC 24V ± 10%, DC 10.5V to 28V

ICD-879P



1/2-inch High Resolution & Performance True Day/Night Camera

RATINGS / PERFORMANCE

Pickup Device (H x V)	1/2-inch interline Transfer CCD (752 x 582)
Sync System	INT / Line-Lock (Phase adjustable)
Scanning System	2:1 interlaced PAL
Video Output	VS 1.0Vp-p / 75 Ω
Limiting Resolution	540 TV Lines (Colour), 570 TV Lines (Monochrome)
S/N Ratio	52 dB or better
Min. Illumination	0.11 lx / F1.2, 0.0037 lx / F1.2 (x32 Electronic Sensitivity) (Colour) 0.011 lx / F1.2, 0.00037 lx / F1.2 (x32 Electronic Sensitivity) (B/W)
Day / Night Function	Auto / Remote / Manual selectable
Back Light Compensation (BLC)	On / Off / Spot switchable (Level adjustable)
Auto Gain Control	On (AGC, Hyper AGC) / Off (Low / Mid / High) switchable
Auto Iris Function	Video / DC selectable (DC iris level adjustable)
Menu Control	On Screen Display / RS-485
Dimensions / Weight	W 62 x H 55 x D 122 mm / 660 g (AC 230V), 420 g (ACDC)
Power Requirement	AC 230V ± 15% 50 Hz, AC 24V ± 10%, DC 10.5V to 28V

ULE-217



The ULE-217 is a professional multi-purpose Full HD monitor with HD-SDI and HDMI interface. ULE-217 is ideal for PC applications, or HD video monitoring. With a VESA interface it can be easily racked, wall-mounted or used as a desktop.



Rear connectors

Full HD 21.5-inch Security Surveillance TFT Monitor with HD-SDI

- Full HD with HD-SDI Interface
- 3D Comb-Filter & De-Interlace
- 5ms Response Time
- 250 cd/m²/ 1000:1 Contrast
- Built-in Speakers
- Eco-friendly LED Solution
- Built-In HDCP Encryption Engine

RATINGS/PERFORMANCE

Display Panel	21,5-inch TFT LCD
Aspect Ratio	16:9
Display Pixel (H x V)	1920 x 1080 @ 60Hz
Display Colour	16.7 Million
Brightness	250 cd/m ²
Contrast Ratio	1000:1
Response Time	< 5 msec
View Angle (H/V)	170° / 160°
Filter Type	3D Comb Filter
HD-SDI Input/ Output	1 ch / 1 ch, BNC
Video Input/ Output (Composite)	2 ch / 1 ch, 1.0Vp-p, 75Ω terminated, BNC type
VGA Input	1 ch
DVI-D/HDMI Input	1 ch/1 ch
Triggger Input	1 ch
Audio-In	1 ch (RCA Typ)
Multi Display Function	PIP/PBP/VOV
SDI-In/Out	1 ch/1 ch
De-Interlacing	YES
Audio Input	3 ch, RCA
Multi Language	English, Spanish, French, German, Italian, Danish, Portuguese, Dutch
Built-in Speakers	Yes (2 W x 2)
VESA Mount Interface	100 mm pitch, VESA standard
Dimensions/Weight	W 580 x H 440 x D 145 mm / Approx. 5.42 kg
Power Requirement	DC12V (AC 100V - 240V (50/60Hz))

ULM-193



19-inch/17-inch/15-inch Security Surveillance TFT Monitor

- High Resolution (More than 500TVL) and high Contrast
- Rapid Response Time
- Various Video and Audio Inputs
- Colour Reproduction: 16 Million Colours

RATINGS/PERFORMANCE

Type Number	ULE-193	ULE-173	ULE-153
LCD Panel Size (HxV)	19-inch TFT (1280 x 1024 pixel A)	17-inch TFT (1280x1024pixel SXGA)	15-inch TFT (1024 x 768 pixel GA)
Max. Brightness	250 cd/m ²		
Contrast	800:1	800:1	700:1
View Angle	170°	170°	170°
Limiting Resolution	500TV Lines	500TV Lines	500TV Lines
Response Time	5 msec	5 msec	8 msec
Filter Type	3D Comb Filter		
Video Signal	Composite	2 ch input/output	
	S-Video	1 ch input/output (Y/C)	
	PC input	Analogue RGB (VGA-SXGA)	
Audio Signal	PC audio	Mini-jack x1ch	
	Audio input	RCA connector x 2ch	
	Speaker	Stereo 4W (2W x 2ch)	
VESA Interface	100 mm pitch, VESA standard		
Dimensions	W 430 x H 371 x D 62 mm	W 382 x H 330 x D 60 mm	W 351 x H 348 x D 200 mm
Weight	Approx. 5.5 kg	Approx. 5.0 kg	Approx. 3.7 kg (w. Stand)
Power Supply	AC 100 V - 240V		
Operating Temperature	0°C to +40°C		



ULM-173



ULM-153

Our reflection creates the perfect image

Ikegami  image

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