Ikegami image

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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

SECURITY SYSTEMS

INDUSTRIAL SYSTEMS

Superb high picture technology and
true to life colour for high precision surgical video
operations, Microscopes and Endoscopes

REVEAL SMALLEST DETAILS OF LIFE

NEW MKC-750UHD

4K

3CMOS 4K Medical Grade Camera

- ■ **3 Chip CMOS progressive Image Sensor**
- ■ **High Quality 4K image (3840 x 2160 pixels)**
- ■ **Various Video Outputs**
- ■ **Ultra Compact Camera Head:**
  W34 x H40 x D40 mm
- ■ **OEM Possibility**
- ■ **High Quality Image Output**

- ■ **New Digital Processor**
- ■ **Mirror, Flip and Rotate Function**
- ■ **Digital Zoom, Scene File, Level Indicator**
- ■ **Anti-biotic Coating (Antibacterial Coating Material)**

Ikegami has developed Medical Grade 4K Camera MKC-750UHD to be suitable for surgical video operations, Microscopes or Endoscopes. MKC-750UHD is the first developed medical 4K 3 sensors camera from Ikegami. With the latest 3-CMOS and Ultra HD resolution (3840x2160pixels), the MKC-750UHD gives the superb high picture quality. The camera will be avilable for OEM, the camera head, Camera Control Unit and Medical grade cable will be offered as per customer's requierd specifications.

Example of application

RELATED ITEMS:
DUAL FOOT PEDAL | MDR-600HD
MICROSCOPE ADAPTORS WITH C-MOUNT CFA-400 | CFA-400IR | CFA-400RIR

RATINGS/PERFORMANCE

Image sensor		1/3-inch 3CMOS
Lens Mount		C-mount
Sensitivity		2000 lx F8 / 3200 K or better
S/N		58 dB (Gamma / *Detail OFF)
Output signal	**4K**	3G-SDI 4 ch
	HDTV	HD-SDI (1920 x 1080 i/p) BNC 2 ch DVI (1920 x 1080 i/p) 1 ch
	External Synchronization	HDTV Tri-Level SYNC 1 ch
Auto GAIN		Available
Auto White		Available
Auto Iris		Available
Auto Shutter		1/100 - 1/10000
Shading Correction		Available
Digital Zoom		Max. 4 position
Camera Cable		5 m, 10 m Extension Cable (maximum length 15 m)
DC Iris Control		Available (from CCU)
External Control		RS-232C 1 ch
Operating Temperature		0 to 40 °C
Power Requirement		AC 100 - 120, 200 - 240 V ± 10 % 50/60 Hz
Weight		Camera Head: less than 100 g; CCU: less than 3 kg
Dimensions		Camera Head: W 34 x H 40 x D 40 mm; CCU: W 210 x H 80 x D 270 mm

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NEW MKC-704KHD

4K

3CMOS High Sensitive Full-HD Medical Grade Camera

- 3 Chip CMOS progressive Image Sensor
- High Quality 4K image (3840 x 2160)
- Valious Video Outputs
- Ultra Compact Camera Head
  W34 x H40 X D40mm
- New Digital Processor
- Ultra High Sensitivity
- Mirror, Flip and Rotatre Function
- Digital Zoom, Scene File, Level Indicator

- Dynamic Contrast Correction
- Image Correction Function

MKC-704KHD is a medical grade high sensitivity (2,000lx/F17 Line Mix On) model Full HD camera. MKC-704KHD employs 3CMOS sensors for providing both of full HD (1920 x1080) and 4K (3840 x 2160) resolution image with the high sensitivity.

RELATED ITEMS:
DUAL FOOT PEDAL | MDR-600HD
MICROSCOPE ADAPTORS WITH C-MOUNT CFA-400 | CFA-400IR | CFA-400RIR

RATINGS / PERFORMANCE

Image sensor		1/3-inch CMOS
Lens Mount		C-mount
Sensitivity		2000 lx F1/ 3200°K or better
S/N		58 dB (Gamma /* Detail OFF)
Output signal	**4K**	3G-SDI 4 ch
	HDTV	HD-SDI (1920 x 1080 i/p) BNC 2 ch DVI (1920x x1080 i/p) 1 ch
	External Syn-chronization	HDTV Tri-level SYNC 1 ch
Auto GAIN		Available
Auto White		Available
Auto Iris		Available
Auto Shutter		1/100 - 1/10000
Shading Correction		Available
Digital Zoom		Max. 4 position
Camera Cable		5 m, 10 m Extension Cable (maximum length 15 m)
DC Iris Control		Available (from CCU)
External Control		RS-232C 1 ch
Operating Temperature		0 to 40°C
Power Requirement		AC 100 - 120, 200 - 240V ±10 % 50/60 Hz
Weight		Camera Head: less than 100 g; CCU: less than 3 kg
Dimensions		Camera Head: W34 x H40 x D40 mm; CCU: W210 x H80 x D270 mm

PRELIMINARY 4K+ NATIVE

Native 4K single chip Medical Grade Camera

- Single CMOS progressive Image Sensor
- High Quality 4K image (3840 x 2160)
- Valious Video Outputs
- Ultra Compact Camera Head
  W34 x H40 X D40mm
- New Digital Processor
- OEM Possibility
- Ultra High Sensitivity
- Mirror, Flip and Rotatre Function
- Digital Zoom, Scene File, Level Indicator

- Dynamic Contrast Correction
- Image Correction Function

Ikegami is developing a medical grade new 4K single chip camera employs single chip netive 4K sensors for providing 4K (3840 x 2160) resolution image with extreamly high quality.

RELATED ITEMS:
DUAL FOOT PEDAL | MDR-600HD
MICROSCOPE ADAPTORS WITH C-MOUNT CFA-400 | CFA-400IR | CFA-400RIR

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MKC-700HD

3CMOS High Sensitive Full-HD Medical Grade Camera

- ■ High quality image
- ■ High sensitivity
- ■ Indocyanine Green (ICG) mode
- ■ Full-HD 1920 x 1080 video and still Image Recording
- ■ FTP Server Function for Downloading the File

- ■ Scene Files
- ■ Flip and Turn Function
- ■ Anti-biotic Coating

Ikegami has developed a new high-end medical grade camera which is used for surgical microscope, shadowless lamp, including the operative field camera system. It has a progressive scan Full-HD 3CMOS that can take advantage of a variety of medical situations.

Example of application

RELATED ITEMS:
DUAL FOOT PEDAL | MDR-600HD
MICROSCOPE ADAPTORS WITH C-MOUNT CFA-400 | CFA-400IR | CFA-400RIR

RATINGS / PERFORMANCE

Scanning System		1920 x 1080 50 / 59.94 Progressive
Image sensor		1/3-inch CMOS
Lens Mount		C-mount
Limiting Resolution		1000 TV Lines
Sensitivity		2000 lx F16/ 3200°K
S/N		56 dB (Gamma / Detail OFF)
GAIN		Up to 18 dB
Output signal	HDTV	HD-SDI BNC 2 ch
		DVI (1920 x 1080 i / p) 1 ch
	SDTV	Composite (VBS) BNC 1 ch
		S-Video S-terminal 1 ch
	IP Ethernet	RJ45 1 ch
SD card interface		Available (IP Ethernet option board)
Camera cable		Multi-core cable 5 m + 10 m
DC Iris Control		Available (from CCU)
External Control		RS-232C 1 ch
Operating Temperature		0°C to +40°C
Power Requirement		DC 12 V ±10 %
Weight		Camera Head: less than 100 g; CCU: less than 3 kg
Dimensions		Camera Head: W34 x W40 x D40 mm; CCU W210 x H80 x D270 mm

MKC-310HD

3CMOS Full-HD Medical Grade Camera

- **3 Chip CMOS progressive Image Sensor**
- **1/3-inch Full-HD (1920 x 1080)**
- **FPGA based**
- **High Resolution: Horizontal 1000 TV lines, S/N 54dB**
- **High Sensitivity: F10 at 2000 lx**
- **Ultra Compact Camera Head: W34 x H40 x D40 mm**

- **Digital output: 3G HD-SDI 1080P**
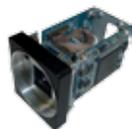- **OEM Possibility**

The MKC-310HD employs 3x 2.1Mega pixel Full-HD 1/3-inch CMOS Sensor to provide 1000 lines of high definition video images through 3G-SDI output interface, coupled with High Sensitivity performance of F10/2000 lux providing the optimal video quality required for special applications.

Recording Board

CCU Mainboard

3CMOS Camera Head

1CMOS Camera Head

RELATED ITEMS:
IP BOARD | RECORDING BOARD
DUAL FOOT PEDAL | MDR-600HD
MICROSCOPE ADAPTORS WITH C-MOUNT CFA-400
CFA-400IR | CFA-400RIR

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RATINGS / PERFORMANCE

Scanning System		1920 x 1080 50 / 59.94 Progressive
Image Sensor		1/3-inch 3 CMOS
Lens Mount		C-mount
Limiting Resolution		1000 TV Lines
Sensitivity		2000 lx F10 / 3200 °K
S/N Ratio		54 dB (Gamma / Detail OFF)
GAIN		0 dB, +6 dB, +12 dB, +18 dB, +24 dB, +30 dB
Output Signals	**HDTV**	3G / HD-SDI BNC 2 ch
		DVI (1920 x 1080 i/p) 1 ch (2nd Output as Option)
		Genlock BNC 1 ch, Sync Output BNC 1 ch
	SDTV	Composite (VBS) BNC 1 ch
		S-Video S-Terminal 1 ch
	IP Ethernet	RJ45 1 ch (Option)
SD card Interface		Available (IP Ethernet Option Board)
Camera Cable		5 m or 7 m single (selectable depending on the Compositing)
DC Iris Control		Available (from CCU)
External Control		RS-232C 1 ch
Operating Temperature		0 °C to +40 °C
Power Requirement		DC 12 V ±10 %
Weight		Camera Head: 100 g; CCU: 1.1 kg
Dimensions		Camera Head: W34 x H40 x D40 mm, CCU: W170 x H58 x D200 mm

MKC-210HD

The MKC-210HD employs 2.1 Mega pixel Full-HD 1/3-inch CMOS sensor to provide 900 lines of high definition video images, and the optimal video quality required for high-end medical video systems.

Recording Board   *CCU Mainboard*

RELATED ITEMS:
IP BOARD | RECORDING BOARD
DUAL FOOT PEDAL | MDR-600HD
MICROSCOPE ADAPTORS WITH C-MOUNT CFA-400
CFA-400IR | CFA-400RIR

1CMOS Full-HD Medical Grade Ultra Compact Camera

- 1 Chip CMOS progressive Image
- 1/3-inch Full-HD (1920 x 1080)
- FPGA based
- High Resolution: Horizontal 900 TV Lines, S/N 50 dB
- High Sensitivity: F7 at 2000 lx
- Ultra Compact Camera Head: W 31 x D 31 x D 36 mm
- Excellent Operability for Use in the Medical Field
- OEM Possibility

RATINGS / PERFORMANCE

Scanning System		1920 x 1080 50 / 59.94 Progressive
Image Sensor		1/3-inch CMOS
Lens Mount		C-mount
Limiting Resolution		More than 900 TVL
Sensitivity		2000 lx F7/3200°K
S/N Ratio		50 dB (Gamma / Detail OFF)
GAIN		Up to 18 dB
Output Signals	**HDTV**	HD-SDI BNC 2ch
		DVI (1920 x 1080 i / p) 1 ch (2nd Output as Option)
	SDTV	Composite (VBS) BNC 1 ch
		S-Video S-Terminal 1 ch
	IP Ethernet	RJ45 1 ch (Option)
SD Card Interface		Available (IP Ethernet Option Board)
Camera Cable		5 m or 10 m single (selectable depending on the Compositing)
DC Iris Control		Available (from CCU)
External Control		RS-232C 1 ch
Operating Temperature		0°C to +40°C
Power Requirement		DC 12V ±10 %
Weight		Camera Head: 60 g; CCU: 1.1 kg
Dimensions		Camera Head: W 31 x H 31 x D 36 mm; CCU: W 170 x H 58 x D 200 mm

66
MEDICAL

NEW CFA-400/CFA-400R/CFA-400RIR

CFA-400

CFA-400R

CFA-400RIR

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Surgery Microscope High Resolution Adaptors for 3 chips Full-HD/4K Cameras

■ Higher resolution of the optical lens even for 4K cameras
■ The new optical design is developed for the brighter optics
■ The optical iris can be adjusted automatically - contribute to perform deeper focal length
■ Deeper Focal Depth
■ Dedicated Design for 3 Chips Cameras

■ The remote controller can easily control the focus adjustment even during the surgery (CFA400R/CFA-400RIR)
■ One pushing button on the remote controller can automatically switch the integrated filter to move to ICG mode with Ikegami MKC cameras (CFA-400RIR)

Ikegami has developed new surgery microscope adaptors, CFA-400 series, for 3 chips Full HD (High Definition) and 4K cameras with the higher optical resolution. They equip the optical auto iris function and perform the deeper focus depth with Ikegami MKC camera series.

Example of application

RATINGS / PERFORMANCE			
Model	**CFA-400RIR**	**CFA-400R**	**CFA-400**
Camera Sensor	1/3-inch recommended	1/3-inch recommended	1/3-inch recommended
Lens Mount	C-mount	C-mount	C-mount
Focal length	Fixed, 53 mm	Fixed, 53 mm	Fixed, 53 mm
Iris Power	DC 12 V ± 10 %; 120 mA or less	DC 12 V ± 10 %; 120 mA or less	DC 12 V ± 10 %; 120 mA or less
Focus	Remote Focus	Remote Focus	Manual Focus
X-Y Axis Adjustment	Available	Available	Available
Filter Change	One push automatic	N/A	N/A
Size	113.5 x 79 x 45 mm	113.5 x 79 x 45 mm	113.5 x 79 x 45 mm
Weight	450 g or less	450 g or less	450 g or less

MDR-600HD

Various type of video signals (SD & HD) can be recorded by simple operation. Reliable simultaneous recording and playback feature on Internal HDD or External USB-device is also available.

Optional Units:

Barcodereader *Remote Controller* *USB Cardreader* *Foot Switch*

Medical Grade Digital Video Recorder

- ■ Full-HD 1920 x 1080 Video and Still Image Recording
- ■ Multi-Interface ■ Built-in LCD Monitor
- ■ Various Search Feature
- ■ Image Data Transfer
- ■ Back-up Power for Momentary Stop

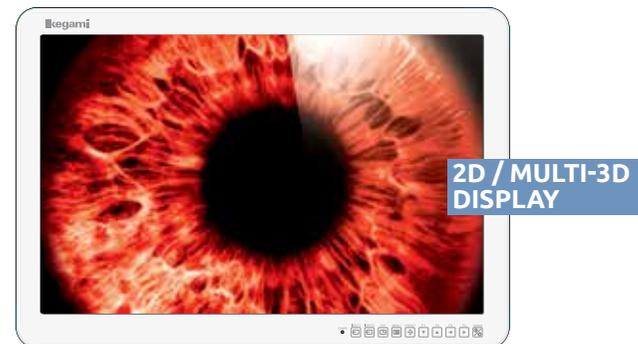| RATINGS / PERFORMANCE		
Internal	2.5-inch HDD (Data Capacity 450 GByte)	
External	USB Drive (Flash Memory or HDD)	
Display	3.5-inch, Full Colour LCD	
Input Signals / Output Signals		
Video	Composite	1.0 Vp-p 75 Ω
	S-Video	1.0 Vp-p 75 Ω luminance Signal
	NTSC	0.286 Vp-p 75 Ω chrominance Signal
	PAL	0.3 Vp-p 75 Ω chrominance Signal
	SD	SD-SDI NTSC (480 i), PAL (576 i)
	HD-SDI	1080 p, 1080 i, 720 p
	DVI-D	640 x 480 - 1920 x 1200 (1920 x 1200 will be reduced to 1728 x 1080)
Audio	- 8 dBs 10 k Ω or more, unbalance SDI Video Input Terminal	
LAN	RJ45 (100 Base-TX/1000 Base-T)	
USB-A	Recording x 2 (Front USB 2.0)	
USB-B	For PC Connection x 1 (Rear USB 2.0)	
Remote	2.5-inch Mini-Jack	
Contact Switch	3.5-inch Mini-Jack, Video x 1, Photo x 1	
USB Drive	Flash Memory or HDD	
Format	FAT32	
Still Image	JPEG	
Video Compression	MPEG-4 AVC / H.264	
File Format	mov	
Recording Time	90 hours. Internal HDD: 500GB, EQ: Economy Quality	
Compression	LPCM	
Sampling Freq.	48 KHz	
Quantifying Bit Number	16-Bit	
Power	AC 100 V - 240 V ±10 % 50/60 Hz 0.62 A - 0.35 A	
Operating Environment	Temperature	5 °F to 40 °F (32 °F to 104 °F)
	Humidity	5 % to 80 % RH (non-condensing)
Dimension	210.5 W x 88.5 H x 235 D mm (incl. rubber foot)	
Weight	2.6 kg (5.7 lbs)	
Accessories	Power Cord x 1 Instruction Manual (with Warranty)	

4K MLW-2750UHD

PRELIMINARY

27-inch 4K Multi-Format high Luminanse LED Colour Monitor

- Fully compliant with medical safety directives
- New Full Flat design for Front panel
- New IPS panel with LED backlight (800 cd/m^2)
- Multi display function
- Various input interface

4K MLW-3110U

PRELIMINARY

2D / MULTI-3D DISPLAY

31.5-inch 4K LED Colour Monitor

- Fully compliant with medical safety directives
- New Full Flat design for Front panel
- New IPS panel with LED backlight (525 cd/m^2)
- Multi display function
- Various input interface

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NEW # MLW-2627C-DC

Side Connectors of
MLW-2627C-DC

Bottom connectors of MLW-2627C-DC

26-inch Full-HD 3G Multi-Format high Luminanse LED Colour Monitor

MLW-2627C-DC is a wide screen 26" LCD monitor with the high resolution 1920 (H) x 1080 (V) Full HD LCD panel, maximum intensity of 900 cd/m^2 and wide angle of 178 degrees. Also, MLW-2627C-DC employs the touch switch control panel to improve the operability during operation.

- Fully compliant with medical safety directives
- New Full Flat design for Front panel
- New IPS panel with LED backlight (900 cd/m^2)

- High Resolution, True colour display (1.07 Billion Color gradient)
- Jaggy-less I / P Conversion Process Function
- Multi display function

RELATED ITEMS:
TS-300 DESKTOP STAND

NEW # MLW-2627C-3D

Side Connectors
MLW-2627C-3D

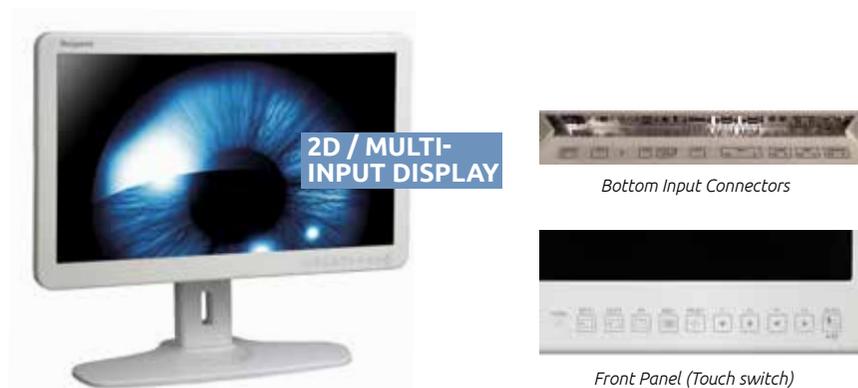Rear Side Connectors MLW-2627C-3D

26-inch Full-HD 3D LED Colour Monitor

MLW-2627C-3D is a wide screen 26" LCD monitor with the high resolution 1920 (H) x 1080 (V) Full HD LCD panel, maximum intensity of 450 cd/m^2 and wide angle of 178 degrees. Also, LED backlight panel supports high brightness & contrast. Furthermore HD-SDI 3G signal can be input for the true progressive imaging and more suitable to natural images. High performance with 3D HD quality is provided for medical specialists and experts.

- Fully compliant with medical safety directives
- New Full Flat design for Front panel
- New IPS panel with LED backlight (450 cd/m^2)
- Switchable between 2D and 3D

- High Resolution, True Colour Display (1.07 Billion Colour gradient)
- Jaggy-less I / P Conversion Process Function
- Multi display function
- Built-in 3D Composer
- Dual inputs interface

RELATED ITEMS:
TS-300 DESKTOP STAND

Everytime we reflect ourselves we see an image

MLW-2624C-DC

2D / MULTI-INPUT DISPLAY

Bottom Input Connectors

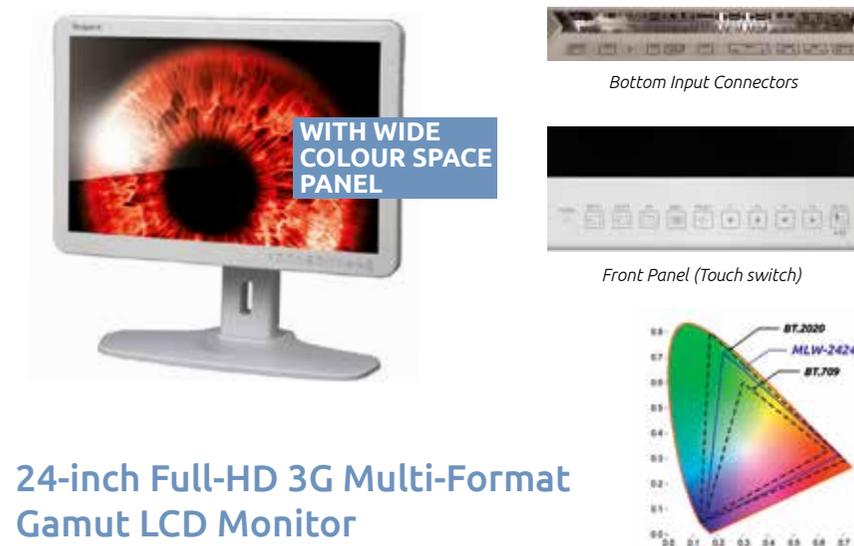*Front Panel (Touch switch)*

26-inch Full-HD 3G Multi-Format LCD Colour Monitor

MLW-2624C is a wide screen 26-inch LCD monitor with the high resolution 1920 (H) x 1080 (V) Full HD LCD panel, maximum intensity of 450 cd/m^2 and wide angle of 178 degrees. Also, MLW-2624C-DC employs the touch switch control panel to improve the operability during operation.

- Fully compliant with medical safety directives
- New IPS panel with LED backlight (450 cd/m^2)
- High Resolution
- True Colour Display (1.07 Billion Color gradient)
- New Full Flat design for Front panel
- Jaggy-less I / P Conversion Process
- Multiple Input and Format Capabilities

RELATED ITEMS:
TS-321 DESKTOP STAND

MLW-2424C-DC

Bottom Input Connectors

WITH WIDE COLOUR SPACE PANEL

Front Panel (Touch switch)

24-inch Full-HD 3G Multi-Format Gamut LCD Monitor

The MLW-2424C-DC is a 3G Multi-Format 24-inch LCD Monitor for specialist applications where high quality picture and true colour rendition with wide colour gamut are needed. Also, MLW-2424C-DC employs the touch switch control panel to improve the operability during operation.

- Fully compliant with medical safety directives
- Wider color gamut than EBU/ AMPTE standard (102% NTSC)
- New Full Flat design Panel
- Jaggy-less I / P Conversion Process
- High Resolution
- New IPS panel with LED backlight (400 cd/m^2)
- True Colour Display (1.07 Billion Color gradient)
- Multiple Input and Format Capabilities

RELATED ITEMS:
TS-321 DESKTOP STAND

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MLW-3225C/-3D

Side connectors of MLW-2422C

Bottom connectors of MLW-3225C/-3D

32-inch HDTV/SDTV Multi-Format
LCD Colour Monitor /3D

MLW-3200C/-3D is a large Widescreen 32-inch LCD Monitor with high resolution Full-HD LCD Panel, 1 Billion colour graduation and wide angle of 178 degrees. MLW-3225C-3D is the latest development for surgical operation 3D monitoring systems.

- Fully compliant with medical safety Directives
- True Colour Display
- Jaggy-less I/P Conversion Process
- Various Gamma Characteristics
- Display Power Management
- Anti-Reflection Hard Coat Screen
- Dual Display Function

- DVI-D Cable (Max. length 30 m)
- Strong, leightweight construction

MLW-3225C-3D Additional Features

- Passive 3D with Xpol® Polarization Filter
- Built-in 3D Composer, Dual Inputs Interface (HD-SDI 2 ch)
- Switchable between 2D and 3D

RELATED ITEMS:
TS-321 DESKTOP STAND

MLW-2150HD

Bottom connectors

21.5-inch Full-HD 3G Multi-LED Monitor

The MLW-2150HD is a medical grade Full -HD LED Monitor with 3G/HD-SDI and HDMI interface. MLW-2150HD is ideal for HD video monitoring or PC applications. With a VESA interface it can be easily racked, wall-mounted or used as a desktop.

- Fully compliant with medical safety Directives
- 21.5-inch Full-HD 3G Multi-Format LED Monitor
- High Resolution Display
- Eco-Friendly LED Solution

- 3D Comb-Filter & De-Interlace
- Slim and lightweight Design
- Multi-adjustable Desktop Stand

ALL INCLUSIVE:
Desktop Stand
LED Backlight
All common video inputs

Monitor Comparison Table

		MLW-3225C-3D	MLW-3225C	MLW-2627C-3D	MLW-2627C-DC	MLW-2624C-DC	MLW-2424C-DC	MLW-2150HD
LCD Diagonal Size		32-inch 698 mm (H) x 393 mm (V)	32-inch 698 mm (H) x 393 mm (V)	26-inch 576 mm (H) x 324 mm (V)	26-inch 576 mm (H) x 324 mm (V)	26-inch 576 mm (H) x 324 mm (V)	24-inch 518 mm (H) x 324 mm (V)	21.5-inch 476.64mm(H)x268.11mm(V)
Pixels		1920(H)x1080(V) FHD	1920(H)x1080(V) FHD	1920(H)x1080(V) FHD	1920 (H)x1080 (V) FHD	1920 (H)x1080 (V) FHD	1920 (H)x1080 (V) FHD	1920 (H)x1080 (V) 16:9
Brightness		200 cd/m^2	500 cd/m^2	450 cd/m^2	900 cd/m^2	450 cd/m^2	400 cd/m^2	250 cd/m^2
Contrast Ratio		1300:1	1300:1	1400:1	1400:1	1400:1	1500:1	1000:1
View Angle		178°	178°	178°	178°	178°	178°	170°
3D effect		Passive 3D (Line by Line) with Xpol® Polarization Filter	N/A	Passive 3D (Line by Line, Side by Side, Top and Bottom, SIMAL (Simultaneous)) with Xpol® Polarization Filter	N/A	N/A	N/A	N/A
Input Video Signal	**3D**	2ch (BNC incl. Looping out)	N/A	2ch (BNC, DVI-D incl. Looping out)	N/A	N/A	N/A	N/A
	3G / HD-SDI	1ch (BNC incl. looping out), 1.5G	1ch (BNC incl. looping out), 1.5G	2ch (BNC incl. Looping out)	2ch (BNC incl. Looping out)	1ch (BNC incl. looping out), Multi-SDI (1.5G, 3G)	1ch (BNC incl. looping out), Multi-SDI (1.5G, 3G)	1ch (BNC incl. looping out), Multi-SDI (1.5G, 3G)
	DVI-D	1ch(DVI-D)	1ch(DVI-D)	2ch (BNC incl. Looping out)	2ch (BNC incl. Looping out)	1ch (DVI-D)	1ch (DVI-D)	1ch (DVI-D)
	HDMI	N/A	N/A	N/A	N/A	N/A	N/A	1ch
	Composite, Y/C	1ch (BNC, Y/C incl. looping out), NTSC/PAL	1ch (BNC, Y/C incl. looping out), NTSC/PAL	1ch (BNC, Y/C incl. looping out), NTSC/PAL	1ch (BNC, Y/C incl. looping out), NTSC/PAL	1ch (BNC, Y/C incl. looping out), NTSC/PAL	1ch (BNC, Y/C incl. looping out), NTSC/PAL	1ch (BNC incl. looping out), NTSC/PAL
	Analogue	1ch (BNC incl. looping out)	1ch(BNC incl. looping out)	1ch(BNC incl. looping out)	1ch (BNC incl. looping out)	1ch (BNC incl. looping out)	1ch (BNC incl. looping out)	N/A
	PC	1ch (D-Sub 15pin), Analogue R, G, B (VGA to WUXGA)	1ch (D-Sub 15pin), Analogue R, G, B (VGA to WUXGA)	1ch (D-Sub 15pin), Analogue R, G, B or Y, Pb, Pr	1ch (D-Sub 15pin), Analogue R, G, B or Y, Pb, Pr	1ch (D-Sub 15pin), Analogue R, G, B or Y, Pb, Pr	1ch (D-Sub 15pin), Analogue R, G, B or Y, Pb, Pr	1ch (D-Sub 15pin), Analogue R, G, B, (VGA to WUXGA)
Multi Input		Picture-in-Picture, Side-by-Side	Picture-in-Picture, Side-by-Side	Picture-in-Picture, Side-by-Side, Swap Display is available	Picture-in-Picture, Side-by-Side, Swap Display is available	Picture-in-Picture, Side-by-Side, Swap Display is available	Picture-in-Picture, Side-by-Side, Swap Display is available	
Video Process Engine		10-Bit	10-Bit	10-Bit	10-Bit	10-Bit	10-Bit	10-Bit
Colour Space		72% (of NTSC)	72% (of NTSC)	72% (of NTSC)	72% (of NTSC)	72% (of NTSC)	99% (of Adobe RGB)	72% (of NTSC)
Colour Gradinet		10-Bit (1 Billion colours)	10-Bit (1 Billion colours)	10-Bit x 3 (1.06 Billion colours)	10-Bit x 3 (1.06 Billion colours)	10-Bit x 3 (1.06 Billion colours)	10-Bit x 3 (1.06 Billion colours)	8-Bit (16.7 Million colours)
Power Requirement		AC100V-120V, 200-240V ±10% 50/60Hz	AC100V-120V, 200-240V ±10% 50/60Hz	DC24V / 3.3A	DC24V / 3.3A	DC24V / 3.3A	DC24V / 3.3A	AC adaptor AC100V-120V, 200-240V ±10% 50/60Hz
Weight / Dimensions		Approx. 13kg / W780 x H493 x D117,5 mm	Approx. 13kg / W780 x H493 x D117,5 mm	Approx. 8kg / 640 (W) x 405 (H) x 84 (D) mm	Approx. 8kg / 640 (W) x 405 (H) x 84 (D) mm	Approx. 8kg / W640 x H405 x D84 mm	Approx. 7kg / W584 x H400 x D83 mm	Approx. 4.35g / W515 x H390 x D182 mm

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ACCESSORIES

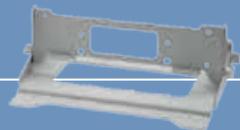**Optional: IP Encoder Board | Recoder Board | Desktop Stand**

IP Encoder Board

OPTIONAL IP ENCODER BOARD FOR MKC-210HD | MKC-310HD

Recorder Board

OPTIONAL RECODER BOARD FOR MKC-210HD | MKC-310HD

TS-321

Desktop stand for MLW-3225C/-3D

TS-300

Desktop stand for MLW-2627C-DC | MLW-2624C-DC | MLW-2424C-DC

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