

For Your Diagnostic Confidence

Product Brochure





WORLD CLASS PRODUCT OF KOREA

ABOUT US

KOSTEC specializes in designing, developing and manufacturing industrial image display devices, particularly medical imaging display monitors.

Since 2006, KOSTEC has devoted its time and efforts to development of special purpose display solutions including medical imaging solutions and achieved big growth in technological development.

Founded on ultrasound imaging technologies, KOSTEC has developed a variety of imaging technologies and solutions required in various medical modalities and industrial facilities, and all the efforts, experience and R&D investment in the past years have come to a result of superb-quality display lineup from small and large open-frame solutions to 5 mega-pixel medical monitors for digital mammography.

KOSTEC is committed to providing reliable custom service and technology for the global clients and partners, and will make devotional efforts for the growth of medical industry.



• 14-bit Digital Mammography & Modality Imaging Solutions (MODALION)

- 06 Experience New Technology
- **08** Diagnostic Display Specifications
- 10 Diagnostic Display Specifications (LED)

• 12, 14-bit Digital Mammography & Modality Imaging Solutions (CALION)

- 14 Experience New Technology
- 16 Diagnostic Display Specifications
- 18 Diagnostic Display Specifications (LED)
- 20 Graphic Card Compatibility

• Special Utility Solutions for Modality Imaging

- 23 D201U8 Color
- 24 D190S4-HL Monochrome (High Luminance) / D190S4 Monochrome
- 25 170EX / 150EX
- 26 Modality Display Specifications

• Clinical Review Displays

- 30 R240FE / R201U4 / R190S4
- **31** Clinical Display Specifications

• Surgical Displays

- 33 KT-E (R) Series / MICS 42, 47, 55, 65, 72, 84-inch
- 34 E240FE / E201U4 / E190S4
- 35 Surgical Display Specifications

• Medical Image Consulting System (Informatic & Surgical)

- 38 Informatic M420F4 / M470F4 / M550F4 / M650F4 / M720F4 / M840Z5 Surgical M420FE / M470FE / M550FE / M650FE / M720FE / M840Z5
- 40 M601Z5 / M840Z5
- 42 Medical Image Consulting System Specifications (LED)

• Ultrasound Imaging Custom-Solution

46 GCMM

• Product Summary

48 Summary

all NEW Medical Imaging Solutions

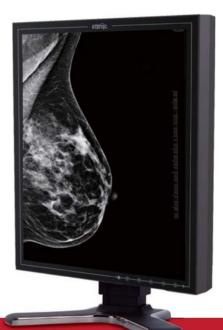
We are here today in a different shape from the past. Even now, we are becoming different, keeping ourselves renovated without cease, along with the current of medical imaging environments.

As medical system is getting more computerized and digitalized, filmless imaging solutions are more required and demand more special performance.

Under the circumstances, high-performance and multi-function medical monitors are strongly demanded and, therefore, KOSTEC designed these monitors for the sake of the solutions of the needs.

MODALION [D213 Series]

14-bit Digital Mammography & Modality Imaging Solutions



14-bit brand new diagnostic imaging solution is a unique and initiative high-resolution imaging solution, ideally designed for the needs of multi-function and high-performance modality imaging display. Equipped with extremely high density LCD panel and innovative image controller rendering 14-bit DICOM LUT compliant 16,384 shades of grayscale, these brand new monitors guarantee radiologists diagnostic confidence with accurate and crisp imaging performance.



D213V5E



D213Q5E



D213Q5



D213U5E



D213U5

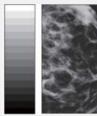
Features

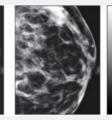




14 14-bit LUT gray scale

Based on the high-technology 14-bit Look-up Table(LUT), KOSTEC achieved 16,384 shades of grayscale, which is ideal for human eye's recognition at the level of Just Noticeable Difference (JND), enabling accurate image display. The 14-Bit LUT is a standard feature of our new diagnostic monitors.



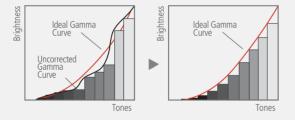




16,384 shades 14-bit

DICOM GSDF

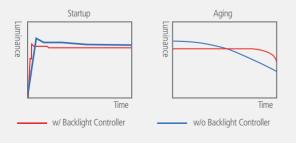
Every DICOM mode incorporated monitors are initialized with the Look-up Table(LUT) that enables ideal DICOM image display through GSDF (Grayscale Standard Display Function) conforming to the standard of DICOM Part 14 and AAPM TG18.



DICOM

Brightness Leveling Technology (BLT)

Brightness Leveling Technology(BLT) is another luminance auto-sensing technology, which, installed at the backside of LCD module, maintains the brightness at the previously calibrated maximum luminance level(L'max), consistently providing JND (Just Noticeable Difference) level compliant image quality at each luminance steps and eventually reducing back light warm-up time and extending lifetime of the lamps.





15 Mega Sub-Pixels Control (SPC)

15 Mega-pixel ultra-fine tuning by high-performance circuitry solution enables 5MP monitors with the resolution of 2048 x 2560 to display much more fine and accurate images.





PIVOT

Standard Color Temperature

Plus to the color temperature D65 that enables graphic editing and endoscope image display at standard color tone, clear base and blue base mode in compliance with DICOM GSDF Part 14 enables CRT users to be immediately adapted to LCD monitors with no rejection symptoms.

Auto OSD Rotation

According to the display mode change from landscape to portrait or vise versa, the on-screen display automatically rotates by the function of built-in gravity sensor.



Image Quality Enhancement Technology

- Horizontal & vertical edge enhancement circuits
- 14-bit color gamma correction
- Brightness & luminance in RGB or YUV, contrast adjustment
- H & V edge enhancement function
- Color management function



Wide Range of Graphic Card Compatibility

High-grade self-calibration technology that the calibrated data is saved in the display controller board, not in the graphic board, enables the monitors to go compatible with those general graphic boards on the markets, which is much more advantageous to maintenance and cost-saving. Even at the time of computer or graphic board replacement, the monitor can be used as is without re-calibration.

06 | 07 KOSTEC



Network Calibration Management System

This is a web-based DICOM calibration management systemdesigned for needs of cost and time efficient calibration system. With this centralized quality assurance management system, your monitors will be continuously ensured compliant with DICOM standards.



International Standard Conformance

KOSTEC complies with the medical device quality management system ISO13485 and all products comply with international or regional standards such as KC,FCC,CE,VCCI,CCC, FDA510(k).





DVI

Paring Service

KOSTEC offers a paring service for uniformity and consistency between the bundled monitors to the dual-head or multi-head users





Ambient Light-sensing Function (ALF)

ALF (Ambient Light-sensing Function) is a technology designed to maintain readability, which may deteriorate according to the change of ambient illumination, even at dark levels by calibrating grayscale at L'min (minimum luminance)



Dual Link DVI input

Dual Link DVI input system supports high-definition digital image display.



DisplayPort

DisplayPort, a digital display interface developed by the Video Electronics Standards Association (VESA). The interface is primarily used to connect a video source to the display to transmit data with true 10-bit image processing.





Protection Glass

According to user's different reading environments, antireflective or anti-glare coating glass is optionally available. Anti-reflective coating glass is more desirably used in a dark environment for better image sharpness. Anti-bacteria film coating is also optionally available.



Eraonomic Design

The tilt, swivel, pivot and height adjustable stand offers ideal viewing position and comforts. VESA standard offers various mounting options.





Backlight Mode Option - Clear Base/ Blue Base

Blue base backlight is optionally available.





Warranty

KOSTEC and its authorized distributors offer a five-year or a three-year limited warranty

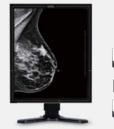
Front Sensor for Smart DICOM GSDF FRONT **SENSOR** Self-calibration (option)

The built-in front sensor communicating with the software installed in the workstation periodically senses the change of luminance and automatically calibrates the grayscale to its default value on the standard of DICOM Part 14. This smart calibration function always keeps the monitors complying with DICOM standard even without technician's service or assistance.



Specifications

MODALION [D213 Series]







21.3" Monochrome D213Q5E 14 BT GRAV Syr

	Model	D213V5E	D213Q5E	
	Technology	21.3-inch TFT Monochrome IPS mode [CMI]	21.3-inch TFT Monochrome IPS mode [NLT]	
	Display Area	422.4(H)mm x 337.92(V)mm	433.152(H)mm x 324.864(V)mm	
	Pixel Pitch	0.165(H)mm x 0.165(V)mm	0.2115(H)mm x 0.2115(V)mm	
LCD Panel	Contrast Ratio	850 : 1 (Typ.)	900 : 1 (Тур.)	
	Luminance (Max)	1100 (cd/ $\rm m^{2})//$ Default– 500 (cd/ $\rm m^{2})$ or custom	1450 (cd/m²)	
	Viewing Angle	170(H) / 170(V)	176(H) / 176(V)	
	Response Time	36ms (Tr +Tf) (Typ.)	27ms (Tr +Tf) (Typ.)	
Performance	Resolution 2560(H) x 2048(V) pixels		2048(H) x 1536(V) pixels	
renomance	Grayscale	14-bit LUT, 16,384 shades of gray	14-bit LUT, 16,384 shades of gray	
Signals	Input Terminals	DVI, DP	DVI, DP	
Signais	USB Ports	USB2.0 upstream x 1 / downstream x 2	USB2.0 upstream x 1 / downstream x 2	
Power	Input	DC 12V 12.5A Max.	DC 12V 12.5A Max.	
Tower	Consumption	88W Max.	52W Max.	
	Calibration mode shift	N/A	N/A	
Fratima	DICOM mode shift	N/A	N/A	
Features	Gamma mode shift	DICOM(LUTO)~LUT6	DICOM(LUTO)~LUT6	
	OSD info display	Operating time, Luminance Settings, Gamma, etc	Operating time, Luminance Settings, Gamma, etc	
	Stand	Tilt, Lift, Swivel, Pivot	Tilt, Lift, Swivel, Pivot	
	Cabinet Colors	Gray	Gray	
Physical	Dimensions(WxHxD)	With stand: 390x510x240/ Without stand: 391.6x476x107.2 (portrait)	With stand: 390x510x240 (portrait) / Without stand: 366x473x95.6 (portrait)	
	Weight	With stand: 9.5Kgs / With stand: 7Kgs	With stand: 9Kgs / With stand: 6.5Kgs	
	Mount	100mm x 100mm VESA standard	100mm x 100mm VESA standard	
	Certification	MDD(KC, CE, FCC, VCCI, UL), FDA510(k) (in progress)	MDD(KC, CE, FCC, VCCI, UL), FDA510(k) (in progress)	
	Accessories	AC adapter, Power cord, DVI cable, USB cable, Operation Manual, Warranty Certificate, Screen Cleaner	AC adapter, Power cord, DVI cable, USB cable, Operation Manual, Warranty Certificate, Screen Cleaner	
	Warranty	5 years	5 years	

Clinical Review Displays

Surgical Displays

Medical Image Consulting System













D213Q5	D213U5E	D213U5
21.3-inch TFT Color IPS mode [NLT]	21.3-inch TFT Monochrome IPS mode [NLT]	21.3-inch TFT Color IPS mode [NLT]
433.152(H)mm x 324.864(V)mm	432.0(H)mm x 324.0(V)mm	432.0(H)mm x 324.0(V)mm
0.2115(H)mm x 0.2115(V)mm	0.270(H)mm x 0.270(V)mm	0.270(H)mm x 0.270(V)mm
750 : 1 (Тур.)	850 : 1 (Typ.)	1050 : 1 (Тур.)
800 (cd/ $\rm m^{2})//$ Default– 500 (cd/ $\rm m^{2})$ or custom	1650 (cd/m²)	860 (cd/ $\rm m^{2})//$ Default– 500 (cd/ $\rm m^{2})$ or custom
176(H) / 176(V)	170(H) / 170(V)	176(H) / 176(V)
35ms (Tr +Tf) (Typ.)	23ms (Tr +Tf) (Typ.)	35ms (Tr +Tf) (Typ.)
2048(H) x 1536(V) pixels	1600(H) x 1200(V) pixels	1600(H) x 1200(V) pixels
14-bit LUT, 16,384 shades of gray	14-bit LUT, 16,384 shades of gray	14-bit LUT, 16,384 shades of gray
DVI, DP	DVI, DP	DVI, DP
USB2.0 upstream x 1 / downstream x 2	USB2.0 upstream x 1 / downstream x 2	USB2.0 upstream x 1 / downstream x 2
DC 24V 6.25A Max.	DC 12V 12.5A Max.	DC 24V 6.25A Max.
90W Max.	51W Max.	90W Max.
N/A	N/A	N/A
4-phased one-touch shift – DICOM BLUE/DICOM CLEAR/ 6500/ 9500	N/A	4-phased one-touch shift – DICOM BLUE/DICOM CLEAR/ 6500/ 9500
DICOM(LUTO)~LUT6	DICOM(LUTO)~LUT6	DICOM(LUTO)~LUT6
Operating time, Luminance Settings, Gamma, etc	Operating time, Luminance Settings, Gamma, etc	Operating time, Luminance Settings, Gamma, etc
Tilt, Lift, Swivel, Pivot	Tilt, Lift, Swivel, Pivot	Tilt, Lift, Swivel, Pivot
Gray	Gray	Gray
With stand: 390x510x240 (portrait)/ Without stand: 366x473x95.6 (portrait)	With stand: 390x510x240 (portrait) / Without stand: 366x473x95.6 (portrait)	With stand: 390x510x240 (portrait)/ Without stand: 366x473x95.6 (portrait)
With stand: 9Kgs / With stand: 6.5Kgs	With stand: 9Kgs / With stand: 6.5Kgs	With stand: 9Kgs / With stand: 6.5Kgs
100mm x 100mm VESA standard	100mm x 100mm VESA standard	100mm x 100mm VESA standard
MDD(KC, CE, FCC, VCCI, UL), FDA510(k) (in progress)	MDD(KC, CE, FCC, VCCI, UL), FDA510(k) (in progress)	MDD(KC, CE, FCC, VCCI, UL), FDA510(k) (in progress)
AC adapter, Power cord, DVI cable, USB cable, Operation Manual, Warranty Certificate, Screen Cleaner	AC adapter, Power cord, DVI cable, USB cable, Operation Manual, Warranty Certificate, Screen Cleaner	AC adapter, Power cord, DVI cable, USB cable, Operation Manual, Warranty Certificate, Screen Cleaner
5 years	5 years	5 years

 * The specifications are subject to change without notice

Ultrasound Imaging Custom-Solution

Specifications

[3MP]

MODALION [D213 Series]









	Model	D213Q5E	D213Q5
	Technology	21.3-inch TFT Monochrome IPS mode [NLT]	21.3-inch TFT Color IPS mode [NLT]
LCD Panel	Display Area	433.152(H)mm x 324.864(V)mm	433.152(H)mm x 324.864(V)mm
	Pixel Pitch	0.2115(H)mm x 0.2115(V)mm	0.2115(H)mm x 0.2115(V)mm
	Contrast Ratio	1400 : 1 (Typ.)	1400 : 1 (Typ.)
	Luminance (Max)	1700 (cd/m²)	800 (cd/m ²)// Default– 500 (cd/m ²) or custom
	Viewing Angle	176(H) / 176(V)	176(H) / 176(V)
-	Response Time	27ms (Tr +Tf) (Typ.)	35ms (Tr +Tf) (Typ.)
	Resolution	2048(H) x 1536(V) pixels	2048(H) x 1536(V) pixels
Performance	Grayscale	14-bit LUT, 16,384 shades of gray	14-bit LUT, 16,384 shades of gray
	Input Terminals	DVI, DP	DVI, DP
Signals	USB Ports	USB2.0 upstream x 1 / downstream x 2	USB2.0 upstream x 1 / downstream x 2
	Input	DC 12V 12.5A Max.	DC 24V 6.25A Max.
Power	Consumption	52W Max.	90W Max.
	Calibration mode shift	N/A	N/A
	DICOM mode shift	N/A	4-phased one-touch shift – DICOM BLUE/DICOM CLEAR/ 6500/ 9500
Features	Gamma mode shift	DICOM(LUTO)~LUT6	DICOM(LUTO)~LUT6
	OSD info display	Operating time, Luminance Settings, Gamma, etc	Operating time, Luminance Settings, Gamma, etc
	Stand	Tilt, Lift, Swivel, Pivot	Tilt, Lift, Swivel, Pivot
	Cabinet Colors	Gray	Gray
Physical	Dimensions(WxHxD)	With stand: 390x510x240 (portrait) / Without stand: 366x473x95.6 (portrait)	With stand: 390x510x240 (portrait)/ Without stand: 366x473x95.6 (portrait)
	Weight	With stand: 9Kgs / With stand: 6.5Kgs	With stand: 9Kgs / With stand: 6.5Kgs
	Mount	100mm x 100mm VESA standard	100mm x 100mm VESA standard
	Certification	MDD(KC, CE, FCC, VCCI, UL), FDA510(k) (in progress)	MDD(KC, CE, FCC, VCCI, UL), FDA510(k) (in progress)
	Accessories	AC adapter, Power cord, DVI cable, USB cable, Operation Manual, Warranty Certificate, Screen Cleaner	AC adapter, Power cord, DVI cable, USB cable, Operation Manual, Warranty Certificate, Screen Cleaner
	Warranty	5 years	5 years

Clinical Review Displays

Surgical Displays

Medical Image Consulting System

Ultrasound Imaging Custom-Solution



LED

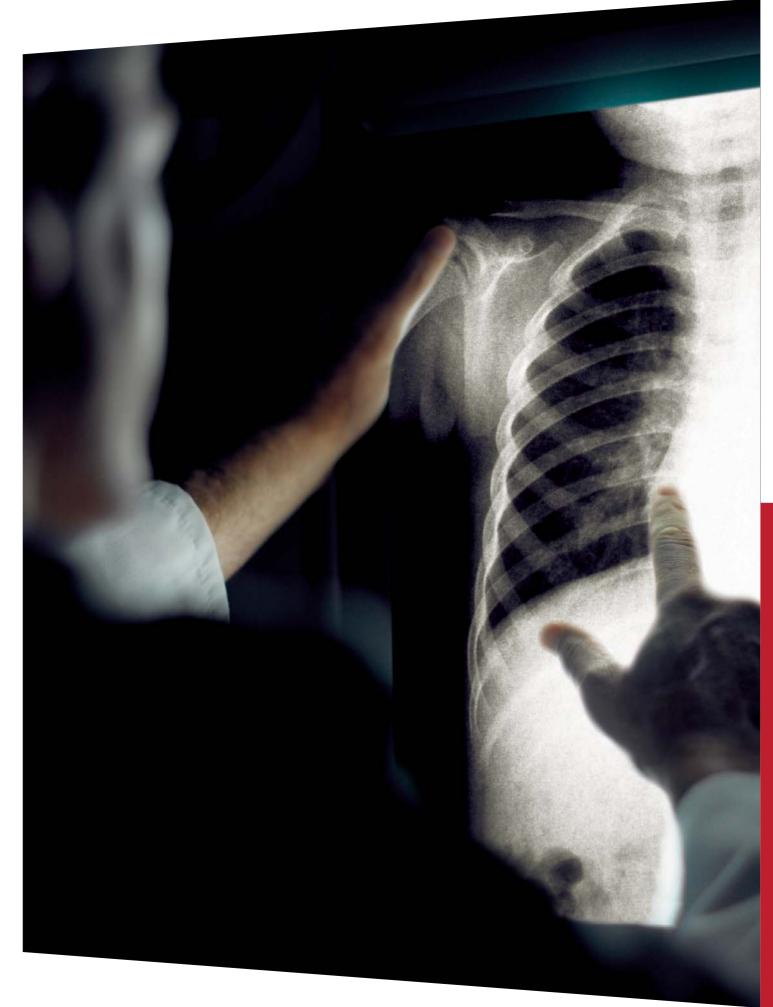
[2MP]

	Model	D213U5E	D213U5	
	Technology	21.3-inch TFT Monochrome IPS mode [NLT]	21.3-inch TFT Color IPS mode [NLT]	
	Display Area	432.0(H)mm x 324.0(V)mm	432.0(H)mm x 324.0(V)mm	
	Pixel Pitch	0.270(H)mm x 0.270(V)mm	0.270(H)mm x 0.270(V)mm	
LCD Panel	Contrast Ratio	1400 : 1 (Тур.)	1200 : 1 (Тур.)	
	Luminance (Max)	1900 (cd/m²)	760 (cd/ $\rm m^2)/\!/$ Default– 500 (cd/ $\rm m^2)$ or custom	
	Viewing Angle	170(H) / 170(V)	176(H) / 176(V)	
	Response Time	23ms (Tr +Tf) (Typ.)	35ms (Tr +Tf) (Typ.)	
Performance	Resolution	1600(H) x 1200(V) pixels	1600(H) x 1200(V) pixels	
renormance	Grayscale	14-bit LUT, 16,384 shades of gray	14-bit LUT, 16,384 shades of gray	
Signals	Input Terminals	DVI, DP	DVI, DP	
orginalo	USB Ports	USB2.0 upstream x 1 / downstream x 2	USB2.0 upstream x 1 / downstream x 2	
Power	Input	DC 12V 12.5A Max.	DC 24V 6.25A Max.	
rower	Consumption	51W Max.	90W Max.	
	Calibration mode shift	N/A	N/A	
Features	DICOM mode shift	N/A	4-phased one-touch shift — DICOM BLUE/DICOM CLEAR/ 6500/ 9500	
reatures	Gamma mode shift	DICOM(LUTO)~LUT6	DICOM(LUTO)~LUT6	
	OSD info display	Operating time, Luminance Settings, Gamma, etc	Operating time, Luminance Settings, Gamma, etc	
	Stand	Tilt, Lift, Swivel, Pivot	Tilt, Lift, Swivel, Pivot	
	Cabinet Colors	Gray	Gray	
Physical	Dimensions(WxHxD)	With stand: 390x510x240 (portrait) / Without stand: 366x473x95.6 (portrait)	With stand: 390x510x240 (portrait)/ Without stand: 366x473x95.6 (portrait)	
	Weight	With stand: 9Kgs / With stand: 6.5Kgs	With stand: 9Kgs / With stand: 6.5Kgs	
	Mount	100mm x 100mm VESA standard	100mm x 100mm VESA standard	
	Certification	MDD(KC, CE, FCC, VCCI, UL), FDA510(k) (in progress)	MDD(KC, CE, FCC, VCCI, UL), FDA510(k) (in progress)	
	Accessories	AC adapter, Power cord, DVI cable, USB cable, Operation Manual, Warranty Certificate, Screen Cleaner	AC adapter, Power cord, DVI cable, USB cable, Operation Manual, Warranty Certificate, Screen Cleaner	
	Warranty	5 years	5 years	

LED

21.3" MP 21.3"

D213U5E



CALION [D213-CA Series]

12, 14-bit Digital Mammography & Modality Imaging Solutions



12, 14-bit brand new diagnostic imaging solution is a unique and initiative high-resolution imaging solution, ideally designed for the needs of multi-function and high-performance modality imaging display. Equipped with extremely high density LCD panel and innovative image controller rendering 12, 14-bit DICOM LUT, these brand new monitors guarantee radiologists diagnostic confidence with accurate and crisp imaging performance.







D213Q5-CA

D21309-CA







D213V5E-CA D213V9B-CA D213Q5E-CA D213Q9B-CA D213U5E-CA D213U8B-CA D213U5-CA D213U8-CA

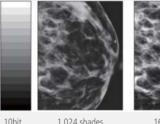
Features

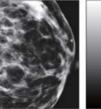




14-bit LUT gray scale (D213*5*-CA Series)

Based on the high-technology 14-bit Look-up Table(LUT), KOSTEC achieved 16,384 shades of grayscale, which is ideal for human eye's recognition at the level of Just Noticeable Difference (JND), enabling accurate image display. The 14-bit LUT is a standard feature of our new diagnostic monitors.





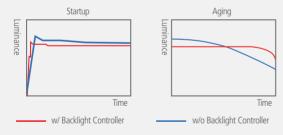
16 384 shades

14-hit



Brightness Leveling Technology (BLT)

Brightness Leveling Technology(BLT) is another luminance auto-sensing technology, which, installed at the backside of LCD module, maintains the brightness at the previously calibrated maximum luminance level(L'max), consistently providing JND (Just Noticeable Difference) level compliant image guality at each luminance steps and eventually reducing back light warm-up time and extending lifetime of the lamps.





Wide Range of Graphic Card Compatibility

High-grade self-calibration technology that the calibrated data is saved in the display controller board, not in the graphic board, enables the monitors to go compatible with those general graphic boards on the markets, which is much more advantageous to maintenance and cost-saving. Even at the time of computer or graphic board replacement, the monitor can be used as is without re-calibration



15 Mega Sub-Pixels Control (SPC)

15 Mega-pixel ultra-fine tuning by high-performance circuitry solution enables 5MP monitors with the resolution of 2048 imes2560 to display much more fine and accurate images.







Every DICOM mode incorporated monitors are initialized with the Look-up Table(LUT) that enables ideal DICOM image display through GSDF (Grayscale Standard Display Function) conforming to the standard of DICOM Part 14 and AAPM TG18.

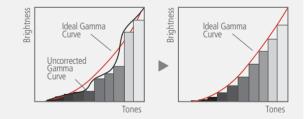




Image Quality Enhancement Technology (D213*5*-CA Series)

- Horizontal & vertical edge enhancement circuits
- 14-bit color gamma correction
- Brightness & luminance in RGB or YUV, contrast adjustment
- H & V edge enhancement function
- Color management function

Clinical Review Displays

Protection Glass : Anti- Glare coating

According to user's different reading environments, antireflective or anti-glare coating glass is optionally available. Anti-reflective coating glass is more desirably used in a dark environment for better image sharpness. Anti-bacteria film coating is also optionally available. Overlaying the anti-glare protection film on the surface of the screen, Calion series will reduce a flection of light on the surface of the screen for your vision.



Backlight Mode Option – Clear Base/ Blue Base

Blue base backlight is optionally available.





Ergonomic Design

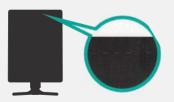
The tilt, swivel, pivot and height adjustable stand offers ideal viewing position and comforts. VESA standard offers various mounting options.





Sensuous & Easy OSD Button

Depending on the application (or site requirement) further Gamma Correction may required. In this case KOSTEC has accurate DICOM 3.14 compliant devices. Although our unit will maintain calibration, physical verifivation is periodically recommended.



5_{yr} Warranty

KOSTEC and its authorized distributors offer a five-year or a three-year limited warranty.



Auto OSD Rotation (D213*5*-CA Series)

According to the display mode change from landscape to portrait or vise versa, the on-screen display automatically rotates by the function of built-in gravity sensor.



Network Calibration Management System

This is a web-based DICOM calibration management systemdesigned for needs of cost and time efficient calibration system. With this centralized quality assurance management system, your monitors will be continuously ensured compliant with DICOM standards.



International Standard Conformance

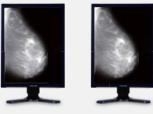
KOSTEC complies with the medical device quality management system ISO13485 and all products comply with international or regional standards such as KC,FCC,CE,VCCI,CCC, FDA510(k).





Paring Service

KOSTEC offers a paring service for uniformity and consistency between the bundled monitors to the dual-head or multi-head users.





Standard Color Temperature

Plus to the color temperature D65 that enables graphic editing and endoscope image display at standard color tone, clear base and blue base mode in compliance with DICOM GSDF part 14 enables CRT users to be immediately adapted to LCD monitors with no rejection symptoms.



DP

Dual Link DVI input

Dual Link DVI input system supports high-definition digital image display.

Display Port

DisplayPort, a digital display interface developed by the Video Electronics Standards Association (VESA). The interface is primarily used to connect a video source to the display to transmit data with true 10-bit image processing.





A variety of I/O Ports & USB

This clinical review monitor is designed to have the most connectivity with analog and digital signals for wide applications.





Specifications









3 21.3" Monochrome D213Q5E-CA D213Q9B-CA

Model		D213V5E-CA D213V9B-CA		D213Q5E-CA D213Q9B-CA		
	Technology	21.3-inch TFT Monochrome I	PS mode [CMI]	21.3-inch TFT Monochrome IPS mode [NLT]		
	Display Area	422.4(H)mm x 337.92(V)mm	I	433.152(H)mm x 324.864(V	/)mm	
	Pixel Pitch	0.165(H)mm x 0.165(V)mm		0.2115(H)mm x 0.2115(V)m	m	
LCD Panel	Contrast Ratio	850 : 1 (Typ.)		900 : 1 (Typ.)		
	Luminance (Max)	1100 (cd/m ²)// Default- 500	(cd/ m^2) or custom	1450 (cd/m²)		
	Viewing Angle	170(H) / 170(V)		176(H) / 176(V)		
	Response Time	36ms (Tr +Tf) (Typ.)		27ms (Tr +Tf) (Typ.)		
Performance	Resolution	2560(H) x 2048(V) pixels		2048(H) x 1536(V) pixels		
renormance	Grayscale	14-bit LUT, 16,384 shades of gray	12-bit LUT, 4096 shades of gray	14-bit LUT, 4096 shades of gray	12-bit LUT, 4096 shades of gray	
	Input	DVI, DP	DP, HDMI, DVI, RGB	DVI, DP	DP, HDMI, DVI, RGB	
Signals	Output	N/A		N/A		
	USB Hub	USB2.0 upstream x1 / downs	stream x 2	USB2.0 upstream x1 / downstream x 2		
Power	Input	DC 12V 12.5A Max.		DC 12V 12.5A Max.		
rowei	Consumption	88W Max.		52W Max.		
	DICOM mode shift	N/A		N/A		
Features	Gamma mode shift	DICOM		DICOM		
	OSD info display	Luminance Settings, etc		Luminance Settings, etc		
	Stand	Tilt, Lift, Swivel, Pivot		Tilt, Lift, Swivel, Pivot		
	Dimensions(WxHxD)	With stand: 390x510x240 (p Without stand: 390x470x100		With stand: 390x510x240 (portrait)/ Without stand: 365x485x88 (portrait)		
Physical	Weight	With stand: 9Kgs / Without s	tand: 6.8Kgs	With stand: 9Kgs / Without s	stand: 6.8Kgs	
	Mount	100mm x 100mm VESA stan	dard	100mm x 100mm VESA star	ndard	
	Certification	MDD(KC, CE, FCC, VCCI, UL)	MDD(KC, CE)	MDD(KC, CE, FCC, VCCI, UL)	MDD(KC, CE)	
Certification		In progress : FDA510(k)		In progress : FDA510(k)		
	Accessories	AC adapter, Power cord, DVI cable, USB cable, Operation Manual, Warranty Certificate, Screen Cleaner				

Clinical Review Displays

Surgical Displays

Medical Image Consulting System

Ultrasound Imaging Custom-Solution











D213U5-CA D213U8-CA 12 14 5yr BIT BIT COLOR WIGHANTY

D213Q5-CA	D213Q9-CA	D213U5E-CA	D213U8B-CA	D213U5-CA	D213U8-CA		
21.3-inch TFT Color IPS mo	de [NLT]	21.3-inch TFT Monochrome	IPS mode [NLT]	21.3-inch TFT Color IPS mode [NLT]			
433.152(H)mm x 324.864(V)mm	432.0(H)mm x 324.0(V)mm	I	432.0(H)mm x 324.0(V)mm	1		
0.2115(H)mm x 0.2115(V)r	nm	0.270(H)mm x 0.270(V)mm	I	0.270(H)mm x 0.270(V)mm	1		
750 : 1 (Typ.)		850 : 1 (Typ.)		1050 : 1 (Typ.)			
800 (cd/m ²)// Default- 500	(cd/ m^2) or custom	1650 (cd/m²)		860 (cd/m ²)// Default- 500	(cd/ m^2) or custom		
176(H) / 176(V)		170(H) / 170(V)		176(H) / 176(V)			
35ms (Tr +Tf) (Typ.)		23ms (Tr +Tf) (Typ.)		35ms (Tr +Tf) (Typ.)			
2048(H) x 1536(V) pixels		1600(H) x 1200(V) pixels		1600(H) x 1200(V) pixels			
14-bit LUT, 4096 shades of gray	12-bit LUT, 4096 shades of gray	14-bit LUT, 4096 shades of gray	12-bit LUT, 4096 shades of gray	14-bit LUT, 4096 shades of gray	12-bit LUT, 4096 shades of gray		
DVI, DP	DP, HDMI, DVI, RGB	DVI, DP	HDMI, DVI, RGB, S-video, Video (BNC)	DVI, DP	HDMI, DVI, RGB, S-video, Video (BNC		
N/A		N/A	Video (BNC) x 1	N/A	Video (BNC) x 1		
USB2.0 upstream x1 / down	nstream x 2	USB2.0 upstream x1 / downstream x 2		USB2.0 upstream x 1 / downstream x 2			
DC 24V 6.25A Max.		DC 12V 12.5A Max.		DC 24V 6.25A Max.			
90W Max.		55W Max.		90W Max.			
N/A		N/A	4-phased one-touch shift – DICOM	N/A	4-phased one-touch shift - DICOM		
DICOM		DICOM	2.2(defualt)/2.4/2.6/2.8/DICOM/CUSTOM/1.8/2.0	DICOM	2.2(defualt)/2.4/2.6/2.8/DICOM/CUSTOM/1.8/2.		
Luminance Settings, etc		Operating time, Luminance	Settings, Gamma, etc	Operating time, Luminance	Settings, Gamma, etc		
Tilt, Lift, Swivel, Pivot		Tilt, Lift, Swivel, Pivot		Tilt, Lift, Swivel, Pivot			
With stand: 390x510x240 (Without stand: 365x485x8		With stand: 390x510x240 (Without stand: 365x485x88		With stand: 390x510x240 (portrait) / Without stand: 365x485x88 (portrait)			
With stand: 9Kgs / Without stand: 6.8Kgs		With stand: 9Kgs / Without	stand: 6.8Kgs	With stand: 9Kgs / Without stand: 6.8Kgs			
100mm x 100mm VESA standard		100mm x 100mm VESA standard		100mm x 100mm VESA sta	ndard		
MDD(KC, CE, FCC, VCCI, UL) MDD(KC, CE)		MDD(KC, CE, FCC, VCCI, UL) MDD(KC, CE)		MDD(KC, CE, FCC, VCCI, UL) MDD(KC, CE)			
In progress : FDA510(k)		In progress : FDA510(k)		In progress : FDA510(k)			
AC adapter, Power cord, DVI cable, USB cable, Operation Manual, Warranty Certificate, Screen Cleaner							

 $\ensuremath{^{\ast}}$ The specifications are subject to change without notice

Specifications

[3MP]

CALION [D213-CA Series]







3 21.3" Color D213Q5-CA D213Q9-CA 12 14 57 577 EED

Model		D213Q5E-CA	D213Q9B-CA	D213Q5-CA	D213Q9-CA	
	Technology	21.3-inch TFT Monochrome IPS mode [NLT]		21.3-inch TFT Color IPS mode [NLT]		
	Display Area	433.152(H)mm x 324.864(V)mm	433.152(H)mm x 324.864(V)mm		
LCD Panel	Pixel Pitch	0.2115(H)mm x 0.2115(V)m	m	0.2115(H)mm x 0.2115(V)m	m	
	Contrast Ratio	1400 : 1 (Тур.)		1400 : 1 (Тур.)		
	Luminance (Max)	1700 (cd/m²)		800 (cd/m ²)// Default- 500 (cd/m ²) or custom	
	Viewing Angle	176(H) / 176(V)		176(H) / 176(V)		
	Response Time	27ms (Tr +Tf) (Typ.)		35ms (Tr +Tf) (Typ.)		
Performance	Resolution	2048(H) x 1536(V) pixels		2048(H) x 1536(V) pixels		
renormance	Grayscale	14-bit LUT, 4096 shades of gray	12-bit LUT, 4096 shades of gray	14-bit LUT, 4096 shades of gray	12-bit LUT, 4096 shades of gray	
	Input	DVI, DP	DP, HDMI, DVI, RGB	DVI, DP	DP, HDMI, DVI, RGB	
Signals	Output	N/A		N/A		
	USB Hub	USB2.0 upstream x1 / down	stream x 2	USB2.0 upstream x1 / downstream x 2		
Power	Input	DC 12V 12.5A Max.		DC 24V 6.25A Max.		
TOWEI	Consumption	52W Max.		90W Max.		
	DICOM mode shift	N/A		N/A		
Features	Gamma mode shift	DICOM		DICOM		
	OSD info display	Luminance Settings, etc		Luminance Settings, etc		
	Stand	Tilt, Lift, Swivel, Pivot		Tilt, Lift, Swivel, Pivot		
	Dimensions(WxHxD)	With stand: 390x510x240 (p Without stand: 365x485x88		With stand: 390x510x240 (portrait) / Without stand: 365x485x88 (portrait)		
Physical	Weight	With stand: 9Kgs / With stan	id: 6.8Kgs	With stand: 9Kgs / With stand: 6.8Kgs		
	Mount	100mm x 100mm VESA star	dard	100mm x 100mm VESA star	Idard	
	Certification	MDD(KC, CE, FCC, VCCI, UL)	MDD(KC, CE)	MDD(KC, CE, FCC, VCCI, UL)	MDD(KC, CE)	
	certification	In progress : FDA510(k)		In progress : FDA510(k)		
	Accessories	AC adapter, Power cord, DVI cable, USB cable, Operation Manual, Warranty Certificate, Screen Cleaner				

[2MP]



Model		D213U5E-CA	D213U8B-CA	D213U5-CA	D213U8-CA	
	Technology	21.3-inch TFT Monochrome	IPS mode [NLT]	21.3-inch TFT Color IPS mode [NLT]		
	Display Area	432.0(H)mm x 324.0(V)mm		432.0(H)mm x 324.0(V)mm		
	Pixel Pitch	0.270(H)mm x 0.270(V)mm		0.270(H)mm x 0.270(V)mm		
LCD Panel	Contrast Ratio	1400 : 1 (Тур.)		1200 : 1 (Typ.)		
	Luminance (Max)	1900 (cd/m²)		760 (cd/m ²)// Default- 500	(cd/m ²) or custom	
	Viewing Angle	170(H) / 170(V)		176(H) / 176(V)		
	Response Time	23ms (Tr +Tf) (Typ.)		35ms (Tr +Tf) (Typ.)		
Performance	Resolution	1600(H) x 1200(V) pixels		1600(H) x 1200(V) pixels		
renormance	Grayscale	14-bit LUT, 4096 shades of gray	12-bit LUT, 4096 shades of gray	14-bit LUT, 4096 shades of gray	12-bit LUT, 4096 shades of gray	
	Input	DVI, DP	HDMI, DVI, RGB, S-video, Vídeo (BNC)	DVI, DP	HDMI, DVI, RGB, S-video, Video (BNC)	
Signals	Output	N/A Video (BNC) x 1		N/A Video (BNC) x 1		
	USB Hub	USB2.0 upstream x1 / dowr	nstream x 2	USB2.0 upstream x 1 /downstream x 2		
Power	Input	DC 12V 12.5A Max.		DC 24V 6.25A Max.		
Tower	Consumption	55W Max.		90W Max.		
	DICOM mode shift	N/A	4-phased one-touch shift – DICOM	N/A	4-phased one-touch shift – DICOM	
Features	Gamma mode shift	DICOM	2.2(defualt)/2.4/2.6/2.8/DICOM/CUSTOM/1.8/2.0	DICOM	2.2(defualt)/2.4/2.6/2.8/DICOM/CUSTOM/1.8/2.0	
	OSD info display	Operating time, Luminance	Settings, Gamma, etc	Operating time, Luminance Settings, Gamma, etc		
	Stand	Tilt, Lift, Swivel, Pivot		Tilt, Lift, Swivel, Pivot		
	Dimensions(WxHxD)	With stand: 390x510x240 (Without stand: 365x485x88		With stand: 390x510x240 (portrait) / Without stand: 365x485x88 (portrait)		
Physical	Weight	With stand: 9Kgs / With star	nd: 6.8Kgs	With stand: 9Kgs / With stand: 6.8Kgs		
Mou		100mm x 100mm VESA sta	ndard	100mm x 100mm VESA standard		
	Certification	MDD(KC, CE, FCC, VCCI, UL)	MDD(KC, CE)	MDD(KC, CE, FCC, VCCI, UL) MDD(KC, CE)		
	Certification	In progress : FDA510(k)		In progress : FDA510(k)		
	Accessories	AC adapter, Power cord, DVI cable, USB cable, Operation Manual, Warranty Certificate, Screen Cleaner				

* The specifications are subject to change without notice

Special Utility Solutions for Modality Imaging

Graphic Card Compatibility

Model	GTX550 Ti OVER D5	GTX560 Ti OVER D5	GTX560 Ti ORIGIN D5	GTX570 OVER D5	GTS450 D5	GTX560TI HERO D5 1GB	GTX560 G6 1GB	GTX460 IGAME D51GB	GTX460se
					P		Dark 🚺 📎		
Chipset					NVIDIA				
Grade					Standard				
OS System Supported	Windows XP / Vista / 7	Windows XP / Vista / 7	Windows XP / Vista / 7	Windows XP / Vista / 7	Windows XP / Vista / 7	Windows XP / Vista / 7			
Core Clock Frame Buffer Memory	970MHz 4200MHz 1GB	900MHz 4000MHz 1GB	822MHz 4000MHz 1GB	780MHz 3800MHz 1.2GB	810MHz 3608MHz 1GB	820MHz 4000MHz 1GB	820MHz 4008MHz 1GB	820MHz 4000MHz 1GB	680MHz 3400MHz 1GB
Bus Interface	PCI-Express 2.0 x16								
Max Resolution	2048X1536						2560	x2048	
Output			DVI X2 HDMI X1			HDMI x1 DVIx2	HDMI x1 DVIx2 DP x1	HDMI x1 DVIx2	HDMI x1 DVIx2 DPx1

Clinical Review Displays

Surgical Displays

Medical Image Consulting System

Ultrasound Imaging Custom-Solution

Graphic Card Compatibility

Model	Quadro FX3700	Quadro 2000D	GTX480 UDV	GTX480	GF GTX470	GF GTX275	GTX460se	GF 9800GT
	*		0		\$	11000		S
Chipset	NVIDIA							
Grade	Premium	Middle	e-grade		Standard			
OS System Supported	Windows XP / Vista / 7	Windows XP / Vista / 7	Windows XP / Vista / 7	Windows XP / Vista / 7	Windows XP / Vista / 7	Windows XP / Vista / 7	Windows XP / Vista / 7	Windows XP / Vista / 7
Core Clock Frame Buffer Memory	725MHz 400MHz 512MB	700MHz 416GB/sec 1GB	700MHz 1401MHz 1.5GB	725MHz 3696MHz 1GB	607MHz 3348MHz 1GB	633MHz 1792MHz 1GB	680MHz 3400MHz 1GB	600MHz 700MHz 512MB
Bus Interface	PCI-Express 2.0		PCI-Express 2.0 x16					
Max Resolution	3840x2400	2560x2048 2048x153					2048x1536	
Output	DVIx2 TV-OUT	DVIx2	HDMI x1 DVIx2	HDMI x1 DVIx2	DVIx2 DPx1 HDMI x1	HDMI x1 DVIx2	HDMI x1 DVIx2 DPx1	DVIx2 TV-OUT



Modality imaging display solutions, which are specially designed for wide for wide applications in medical imaging sectors such as HIS, RIS, PACS and various analog and digital signal input / output terminals, it provides the radiologists or imaging designers with a fitting alternative solution in modality systems such as CT, CR, MRI, DSA, etc.







D201U8

170EX / 150EX

D190S4-HL D190S4



D201U8 is a special edition of low-cost ownership solutions for high-quality 2mega-pixel imaging displays. Combined with a 12-bit image processing controller and a variety of display technologies and functions, the 20.1-inch 2MP color LCD with a resolution of 1600x1200 and a high brightness at 700cd/m² provides radiologists and imaging system designers with utility applications in HIS, RIS, PACS and various modalities such as CT, CR, MRI, DSA and even endoscopy imaging systems.

With the configuration of various analog and digital signal input/output terminals and user friendly functions such as one-touch calibration/ DICOM mode shift, PiP/PbP, gamma shift, etc, its utility in modality applications gets maximized.

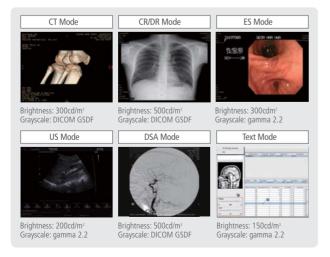






Standard Gamma Curve Calibration Mode Hotkey (CMH)

According to various applications or user's environments, available are the variety of image display modes differentiated by various gamma curves such as the standard gamma 1.8(old ver. Apple Mac), gamma 2.2 (IBM compatible & television), 2.0, 2.4, 2.6, 2.8, including custom-mode gamma. In case of diagnostic monitors or their equivalents, calibration mode hotkey(CMH) function is added to provide CR/DR mode for X-ray images including mammography, US mode for ultrasound images and CT mode. ES mode for endoscopy images is available for color displays.

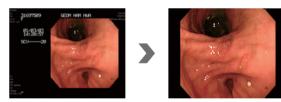


* Some modes may not be available for some models.



Image Size Adjustment

Image Size can be adjusted to user's preference mode. Available modes are Auto, Fill All, Fill Aspect, Zoom, one to one.

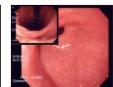




PiP / PbP

PbP & PiP function allows users to display two different images from two different sources(Digital/Analog), which is required when surgery and flexible endoscope are performed at once, or when endoscopic procedure is performed with ultrasound imaging or else.





PiF

1 D190S4-HL Monochrome (High Luminance) D190S4 Monochrome

Modality Imaging Solutions

19-inch 1.3MP High-brightness Monochrome Monitor

D190S4 is a 19-inch 1.3mega-pixel monochrome imaging solution designed for the needs of modality application. Combined with a 12-bit image processing controller and a variety of display technologies and functions, the superb-quality monochrome LCD with a resolution of 1280x1024 and extremely high brightness at 1,000cd /m²(D190S4) \cdot 1,300cd /m²(D190S4-HL) provides radiologists with high-quality monochrome image display in various radiology modalities.







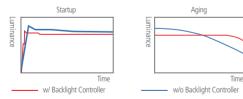
12 12-bit LUT gray scale

Brightness Leveling Technology by BLT sensor keeps the luminance stable and consistent at a certain desirable level over time, enabling true white balance and extension of backlight lifetime.



Brightness Leveling Technology (BLT)

Brightness Leveling Technology (BLT) is another luminance auto -sensing technology, which, installed at the backside of LCD module, maintains the brightness at the previously calibrated maximum luminance level(L'max), consistently providing JND(Just Noticeable Difference) level compliant image quality at each luminance steps and eventually reducing back light warm-up time and extending lifetime of the lamps.



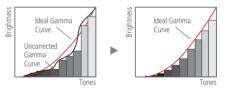
Standard Color Temperature

Plus to the color temperature D65 that enables graphic editing and endoscope image display at standard color tone, clear base and blue base mode in compliance with DICOM GSDF Part 14 enables CRT users to be immediately adapted to LCD monitors with no rejection symptoms.



DICOM GSDF

Every DICOM mode incorporated monitors are initialized with the Look-up Table(LUT) that enables ideal DICOM image display through GSDF (Grayscale Standard Display Function) conforming to the standard of DICOM Part 14 and AAPM TG18.





A variety of I/O Ports

KOSTEC modality displays are designed to have the most connectivity with analog and digital signals for the user's various options.





Warranty

KOSTEC and its authorized distributors offer a three-year limited warranty.

HIFT



170EX / 150EX

Modality Imaging Solutions

1 MP High-brightness Color Imaging Solutions

15-inch, 17-inch 1MP color monitors are budget-efficient modality imaging solutions, which are with its comparatively higher brightness, ideal for C-arm X-ray, Angiography and Radiology imaging systems.

Incorporated with high-luminance LCD panels and versatile AD controller board processing 4,096 shades of DICOM-compliant grayscale, these monitors guarantees crisp and accurate image rendering and reliable performance.

Besides digital DVI and analog RGB signal, they are compatible with S-video and CVBS signals (BNC terminal).







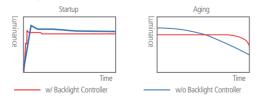
12-bit LUT gray scale

KOSTEC 12-bit high-performance controller is designed to achieve a crisp 4,096 shades of gray scale, reproducing perfect DICOM images.



Brightness Leveling Technology (BLT)

Brightness Leveling Technology(BLT) is another luminance auto -sensing technology, which, installed at the backside of LCD module, maintains the brightness at the previously calibrated maximum luminance level(L'max), consistently providing JND(Just Noticeable Difference) level compliant image quality at each luminance steps and eventually reducing back light warm-up time and extending lifetime of the lamps.





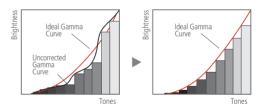
Standard Color Temperature

Plus to the color temperature D65 that enables graphic editing and endoscope image display at standard color tone, clear base and blue base mode in compliance with DICOM GSDF Part 14 enables CRT users to be immediately adapted to LCD monitors with no rejection symptoms.



DICOM GSDF

Every DICOM mode incorporated monitors are initialized with the Look-up Table(LUT) that enables ideal DICOM image display through GSDF (Grayscale Standard Display Function) conforming to the standard of DICOM Part 14 and AAPM TG18.





A variety of I/O Ports

KOSTEC modality displays are designed to have the most connectivity with analog and digital signals for the user's various options.

•	۲				0	0	\bigcirc
DC POWER	SERVICE	HDMI	DVI	RGB 1	S-VIDEO	VIDEO	VIDEO OUTPUT

3_{yr} Warranty

KOSTEC and its authorized distributors offer a three-year limited warranty.

Specifications



20.1" D201U8





19" D190S4-HL



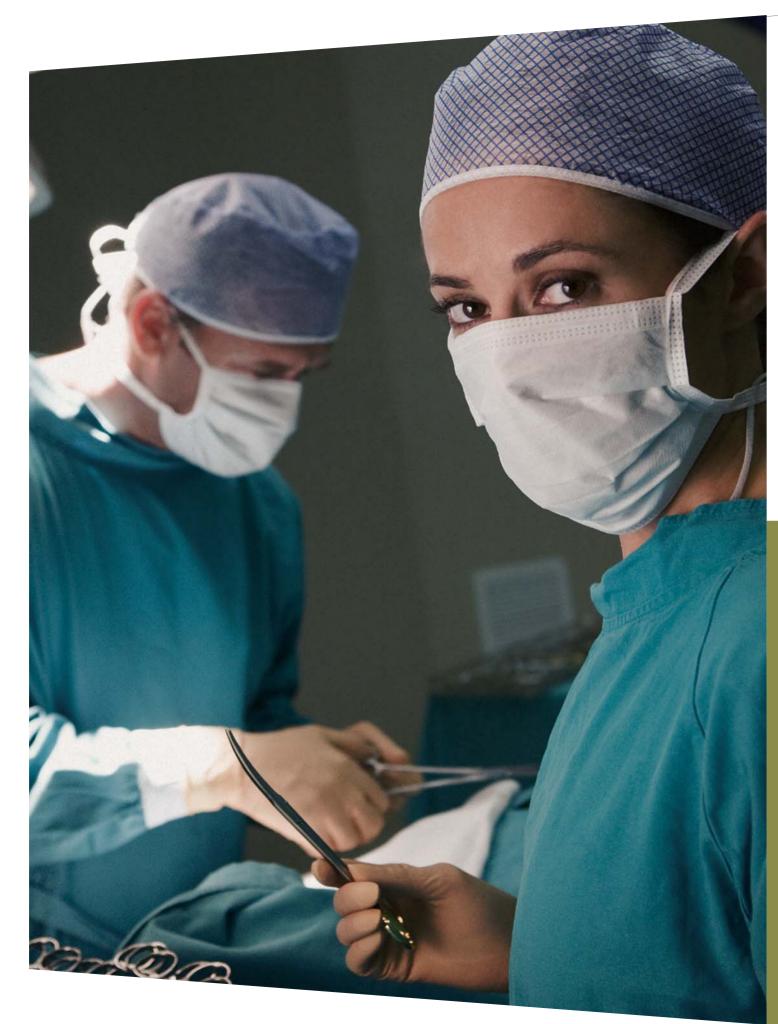
1 I9" D190S4 GRAV

Model		D201U8	D190S4-HL	D190S4
	Technology	20.1-inch TFT Color IPS mode [Kostec tune]	19-inch TFT Color IPS mode [CMI]	19-inch TFT Monochrome IPS mode [LG]
	Display Area	408.0(H)mm x 306.0(V)mm	376.32(H)mm x 301.056(V)mm	376.32(H)mm x 301.056(V)mm
	Pixel Pitch	0.255(H)mm x 0.255(V)mm	0.294(H)mm x 0.294(V)mm	0.294(H)mm x 0.294(V)mm
LCD Panel	Contrast Ratio	800 : 1 (Typ.)	1000 : 1 (Typ.)	900 : 1 (Typ.)
	Luminance (Max)	700 (cd/m²)	1300 (cd/m²)	1000 (cd/m²)
	Viewing Angle	178(H) / 178(V)	-85~85(H) / -85~85(V)	170(H) / 170(V)
	Response Time	14ms (Tr+Tf) (Typ.)	28ms (Tr+Tf) (Typ.)	25ms (Tr+Tf) (Typ.)
Performance	Resolution	1600(H) x 1200(V) pixels	1280(H) x 1024(V) pixels	1280(H) x 1024(V) pixels
Performance	Grayscale	12-bit LUT, 4096 shades of gray	12-bit LUT, 4096 shades of gray	12-bit LUT, 4096 shades of gray
	Input	HDMI, DVI, RGB, S-video, Video (BNC)	HDMI, Digital DVI, Analog RGB, S-Video, CVBS (BNC)	HDMI, DVI, RGB, CVBS (BNC)
Signals	Output	Video (BNC) x 1	Video (BNC) X 1, S-Video	S-Video
	USB Hub	USB2.0 upstream x 1 / downstream x 2	USB2.0 upstream x1 / downstream x 2	S-Vide, Video (BNC)
Power	Input	DC 24V 3.75A Max.	AC adapter 100V-240V 50/60Hz	DC 12V 7A Max.
Fower	Consumption	55W (Typ.)	70W (Typ.)	43W Max.
	Calibration mode shift	6-phased calibration modes – CT/CR/ES/US/DSA/TEXT	4-phased calibration modes- CT/ES/US/TEXT	
Features	DICOM mode shift	4-phased one-touch shift – DICOM BLUE/ DICOM CLEAR/ 6500/ 9500	4-phased one touch shift – DICOM BLUE/ DICOM CLEAR/ 6500/ 9500	4-phased one-touch shift – DICOM BLUE/ DICOM CLEAR/ 6500/ 9500
	Gamma mode shift	2.2(defualt)/2.4/2.6/2.8/DICOM/CUSTOM/1.8/2.0	2.2(default)/2.4/2.6/2.8/DICOM/CUSTOM/1.8/2.0	2.2(defualt)/2.4/2.6/2.8/DICOM/CUSTOM/1.8/2.0
	OSD info display	Operating time, Luminance Settings, Gamma, etc	Operating time, Luminance Settings, Gamma, etc	Operating time, Luminance Settings, Gamma, etc
	Touch Screen	Optional	Optional (P-CAP)	Optional
Physical	Stand	Tilt, Lift, Swivel, Pivot	Tilt, Lift, Swivel, Pivot	Tilt (optional-Lift/Swivel/Pivot)
Thysical	Cabinet Color	Dark gary	Dark gary	Dark gary
	Weight	With stand: 7.5Kgs / With stand: 5.5Kgs	With stand: 7.5Kgs / With stand: 5.5Kgs	With stand: 7.5 Kgs / With stand: 5.5 Kgs
	Mount	100mm x 100mm VESA standard	100mm x 100mm VESA standard	100mm x 100mm VESA standard
	Certification	MDD(KC, CE, FCC, VCCI, UL)	TBD	MDD(KC, CE, FCC, VCCI, UL)
	Accessories	AC adapter, Power cord, DVI cab	le, USB cable, Operation Manual, Warranty Certific	cate, Screen Cleaner

M	odal	litv	Dis	pla	v Si	peci	fica	atio	n
1 1 1	Juu	ncy		più,	y 71		nice	luo	

17" MP Color		1 15" MP Color
170EX	A CONTRACTOR -	150EX
COLOR		COLOR

Model		170EX	150EX	
	Technology	17-inch TFT Color TN mode [AUO]	15-inch TFT Color TN mode [AUO]	
	Display Area	337.92(H)mm x 270.336(V)mm	304.128(H)mm x 228.096(V)mm	
	Pixel Pitch	0.264(H)mm x 0.264(V)mm	0.297(H)mm x 0.297(V)mm	
LCD Panel	Contrast Ratio	1000 : 1	500 : 1 (Тур.)	
	Luminance (Max)	380 (cd/m²)	550 (cd/m²)	
	Viewing Angle	170(H) / 160(V)	140(H) / 125(V)	
	Response Time	5ms (Tr +Tf) (Typ.)	8ms (Tr+Tf) (Typ.)	
Performance	Resolution	1280(H) x 1024 (V)	1024(H) x 768(V) pixels	
renormance	Grayscale	12-bit LUT, 4096 shades of gray	12-bit LUT, 4096 shades of gray	
Signals	Input	HDMI, DVI, RGB, S-video, Video (BNC)	HDMI, DVI, RGB, S-video, Video(BNC)	
Signais	Output	Video (BNC) x1	Video (BNC) x1	
Power	Input	DC 12V 7A Max.	DC 12V 7A Max.	
Tower	Consumption	38W Max.	45W Max.	
Features	DICOM mode shift	4-phased one-touch shift – DICOM BLUE/DICOM CLEAR/ 6500/ 9500	4-phased one-touch shift — DICOM BLUE/DICOM CLEAR/ 6500/ 9500	
reatures	Gamma mode shift	2.2(defualt)/2.4/2.6/2.8/DICOM/CUSTOM/1.8/2.0	2.2(defualt)/2.4/2.6/2.8/DICOM/CUSTOM/1.8/2.0	
	OSD info display	Operating time, Luminance Settings, Gamma, etc	Operating time, Luminance Settings, Gamma, etc	
	USB Hub	N/A	N/A	
	Color	Black	Black	
Physical	Stand	Tilt	Tilt	
	Weight	With stand: 6.0 Kgs / With stand: 4.0 Kgs	With stand: 6.0 Kgs / With stand: 4.0 Kgs	
	Mount	100mm x 100mm VESA standard	100mm x 100mm VESA standard	
	Certification	TBD	MDD(CE)	
Accessories		AC adapter, Power cord, DVI cable, Operation Manual, Warranty Certificate, Screen Cleaner		





Clinical Review Displays

KOSTEC clinical review monitors are multi-purpose medical monitors designed for a variety of medical imaging application in most of hospital system such as Radiology, Pathology, Cardiology, Orthopedics, Emergency, outpatient Clinics, Dental Clinics, Private Clinics, etc. Incorporated with premium quality LCD panels and versatile image controller boards with a variety of digital/analog I/O ports.



R201U4





R190S4

Features

Clinical Review Displays



R240FE / R201U4 / R190S4

Clinical Review Displays





12 12-bit LUT gray scale

KOSTEC 12-bit high-performance controller is designed to achieve a crisp 4,096 shades of gray scale.



Brightness Leveling Technology (BLT)

Brightness Leveling Technology(BLT) is another luminance autosensing technology, which, installed at the backside of LCD module, maintains the brightness at the previously calibrated maximum luminance level(L'max), consistently providing JND(Just Noticeable Difference) level compliant image quality at each luminance steps and eventually reducing back light warm-up time and extending lifetime of the lamps.



Standard Color Temperature

Plus to the color temperature D65 that enables graphic editing and endoscope image display at standard color tone, clear base and blue base mode in compliance with DICOM GSDF part 14 enables CRT users to be immediately adapted to LCD monitors with no rejection symptoms.



Image Size Adjustment

Image Size can be adjusted to user's preference mode. Available modes are Auto, Fill All, Fill Aspect, Zoom, one to one.



PiP / PbP

PbP & PiP function allows users to display two different images from two different sources (Digital/Analog), which is required when surgery and flexible endoscope are performed at once, or when endoscopic procedure is performed with ultrasound imaging or else.



Ergonomic Design

The tilt, swivel, pivot and height adjustable stand offers ideal viewing position and comforts. VESA standard offers various mounting options.



GAMMA

Standard Gamma Curve Calibration Mode Hotkey (CMH)

According to various applications or user's environments, available are the variety of image display modes differentiated by various gamma curves such as the standard gamma 1.8(old ver. Apple Mac), gamma 2.2 (IBM compatible & television), 2.0, 2.4, 2.6, 2.8, including custom-mode gamma. In case of diagnostic monitors or their equivalents, calibration mode hotkey(CMH) function is added to provide CR/DR mode for X-ray images including mammography, US mode for ultrasound images and CT mode. ES mode for endoscopy images is available for color displays.



Warranty

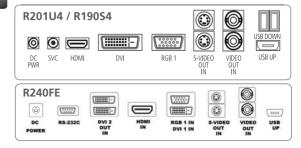


KOSTEC and its authorized distributors offer a three-year limited warranty.

A variety of I/O Ports & USB



This clinical review monitor is designed to have the most connectivity with analog and digital signals for wide applications.



Surgical Displays

Medical Image Consulting System

Specifications



24" **R240FE**



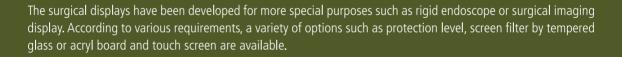
20.1" R201U4 🌉



🗓 🕼 R190S4 🄜

Model		R240FE	R201U4	R19054	
	Technology	24-inch TFT Color IPS mode [LG]	20.1-inch TFT Color IPS mode [LG]	19-inch TFT Color IPS mode [LG]	
LCD Panel	Display Area	518.4(H)mm x 324(V)mm	408.0(H)mm x 306.0(V)mm	376.32(H)mm x 301.06(V)mm	
	Pixel Pitch	0.270(H)mm x 0.270(V)mm	0.255(H)mm x 0.255(V)mm	0.294(H)mm x 0.294(V)mm	
	Contrast Ratio	1000 : 1 (Тур.)	800 : 1 (Typ.)	800 : 1 (Typ.)	
	Luminance (Max)	400(cd/m²)	300(cd/m²)	270(cd/m²)	
	Viewing Angle	178(H) / 178(V)	178(H) / 178(V)	178(H) / 178(V)	
	Response Time	6ms (Gray to Gray)	8ms (Tr+Tf) (Typ.)	25ms (Tr+Tf) (Typ.)	
Performance	Resolution	1920(H) x 1200(V) pixels	1600(H) x 1200(V) pixels	1280(H) x 1024(V) pixels	
renormance	Grayscale	12-bit LUT, 4096 shades of gray	12-bit LUT, 4096 shades of gray	12-bit LUT, 4096 shades of gray	
Signals	Input	HDMI, Digital DVIx2, RGB, S-Video, Video (BNC) x 1	HDMI, Digital, DVI, RGB, S-Video x 1	HDMI, Digital, DVI, RGB, S-Video, CVBS (BNC)	
Signals	Output	Video (BNC) x 1, S-Video, Digital DVI	Video (BNC) x 1, S-Video	Video (BNC) x 1, S-Video	
Power	Input	DC 24V 6.25A Max.	DC 18V 5A Max.	DC 12V 7A Max.	
Power	Consumption	98W Max.	70W Max.	42.6W Max.	
Fratiuma	Calibration mode shift	N/A	4-phased calibration modes – CT/ES/US/TEXT	4-phased calibration modes – CT/ES/US/TEXT	
Features	DICOM mode shift	4-phased one-touch shift — DICOM BLUE/DICOM CLEAR/ 6500/ 9500	4-phased one-touch shift — DICOM BLUE/DICOM CLEAR/ 6500/ 9500	4-phased one-touch shift — DICOM BLUE/DICOM CLEAR/ 6500/ 9500	
	Gamma mode shift	2.2(defualt)/2.4/2.6/2.8/DICOM/CUSTOM/1.8/2.0	2.2(defualt)/2.4/2.6/2.8/DICOM/CUSTOM/1.8/2.0	2.2(defualt)/2.4/2.6/2.8/DICOM/CUSTOM/1.8/2.0	
	OSD info display	Operating time, Gamma, etc	Operating time, Luminance Settings, Gamma, etc	Operating time, Luminance Settings, Gamma, etc	
	USB Hub	USB2.0 upstream x 1 / downstream x 2	USB2.0 upstream x 1 / downstream x 2	USB2.0 upstream x 1 / downstream x 2	
	Touch Screen	Optional (Multi Touch P-cap Type)	Optional (SAW Type)	Optional (Multi Touch P-cap Type)	
	Stand	Tilt, Lift, Swivel, Pivot	Tilt, Lift, Swivel, Pivot	Tilt, Lift, Swivel, Pivot	
Physical	Cabinet Color/Weight	Dark gary/lvory / With stand : 8 Kgs / With stand : 6 Kgs	Dark gary/lvory / With stand : 7.5 Kgs / With stand : 5.5 Kgs	Dark gary/lvory / With stand : 7.5 Kgs / With stand : 5.5 Kgs	
	Mount	100mm x 100mm VESA standard	100mm x 100mm VESA standard	100mm x 100mm VESA standard	
Certification		MDD(KC, CE, FCC, VCCI, UL), CB, FDA510(k)(in progress)	MDD(KC, CE, FCC, VCCI, UL), FDA510(k)(in progress)	MDD(KC, CE, FCC, VCCI, UL), FDA510(k)(in progress)	
Remote Controller		Yes	N/A	N/A	
Accessories		AC adapter, Power cord, DVI cable, USB cable, Operation Manual, Warranty Certificate, Screen Cleaner	AC adapter, Power cord, DVI cable, USB cable, Operation Manual, Warranty Certificate, Screen Cleaner	AC adapter, Power cord, DVI cable, USB cable, Operation Manual, Warranty Certificate, Screen Cleaner	

Surgical Displays









.......

E190S4

Product Summary

Surgical Displays

Internal Medicine & Surgery Department

KT-E (R) series/MICS 42, 47, 55, 65, 72, 84-inch

The best quality of the medical image view

Get all your needs for Internal Medicine & surgical working environment

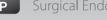


Features

Surgical Displays



E240FE / E201U4 / E190S4







LUMI

12-bit LUT gray scale

KOSTEC 12-bit high-performance controller is designed to achieve a crisp 4,096 shades of gray scale.

Brightness Leveling Technology (BLT) BLT

Brightness Leveling Technology(BLT) is another luminance autosensing technology, which, installed at the backside of LCD module, maintains the brightness at the previously calibrated maximum luminance level(L'max), consistently providing JND(Just Noticeable Difference)level compliant image quality at each luminance steps and eventually reducing back light warm-up time and extending lifetime of the lamps.



Standard Color Temperature

Plus to the color temperature D65 that enables graphic editing and endoscope image display at standard color tone, clear base and blue base mode in compliance with DICOM GSDF part 14 enables CRT users to be immediately adapted to LCD monitors with no rejection symptoms.



Image Size Adjustment

Image Size can be adjusted to user's preference mode. Available modes are Auto, Fill All, Fill Aspect, Zoom, one to one.



PiP / PbP

PbP & PiP function allows users to display two different images from two different sources (Digital/Analog), which is required when surgery and flexible endoscope are performed at once, or when endoscopic procedure is performed with ultrasound imaging or else.



Ergonomic Design

The tilt, swivel, pivot and height adjustable stand offers ideal viewing position and comforts. VESA standard offers various mounting options.



GAMMA

Standard Gamma Curve Calibration Mode Hotkey (CMH)

According to various applications or user's environments, available are the variety of image display modes differentiated by various gamma curves such as the standard gamma 1.8(old ver. Apple Mac), gamma 2.2 (IBM compatible & television), 2.0, 2.4, 2.6, 2.8, including custom-mode gamma. In case of diagnostic monitors or their equivalents, calibration mode hotkey(CMH) function is added to provide CR/DR mode for X-ray images including mammography, US mode for ultrasound images and CT mode. ES mode for endoscopy images is available for color displays.



* This function is available for R201 only.

3_{yr} Warranty

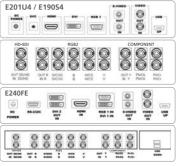


KOSTEC and its authorized distributors offer a three-year limited warranty.

A variety of I/O Ports & USB



This clinical review monitor is designed to have the most connectivity with analog and digital signals for wide applications.



Specifications



24" E240FE 5000



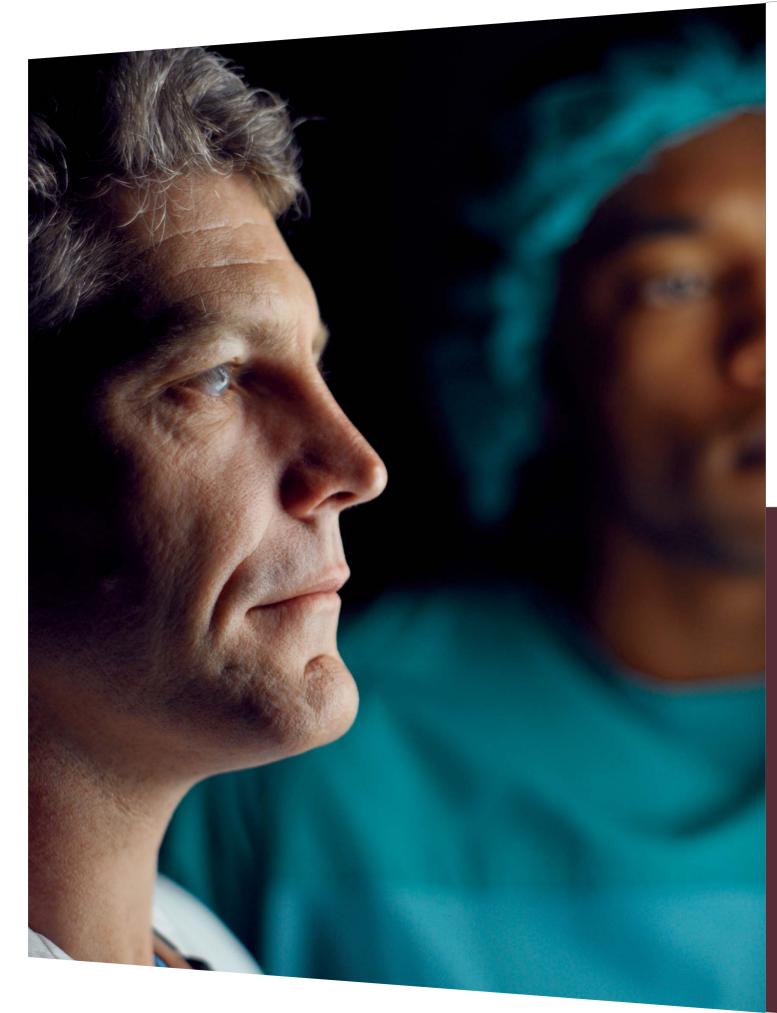
20.1" E201U4



Surgical Display Specifications

19" E190S4 🄙

Model		E240FE	E201U4	E190S4
LCD Panel	Technology	24-inch TFT Color IPS mode [LG]	20.1" Color IPS mode [LG]	19" Color IPS mode [LG]
	Display Area	518.4(H)mm x 324(V)mm	408.0(H) x 306.0(V)mm	376.32(H) x 301.06(V)mm
LCD Panel	Pixel Pitch	0.270(H)mm x 0.270(V)mm	0.255(H) x 0.255(V)mm	0.294(H) x 0.294(V)mm
	Contrast Ratio	1000 : 1 (Typ.)	800 : 1 (Typ.)	800 : 1 (Typ.)
	Luminance (Max)	400(cd/m ²)	300(cd/m ²)	270(cd/m ²)
	Viewing Angle	178(H) / 178(V)	178(H) / 178(V)	178(H) / 178(V)
	Response Time	6ms (Gray to Gray)	8ms (Tr+Tf) (Typ.)	25ms (Tr+Tf) (Typ.)
erformance	Resolution	1920(H) x 1200(V) pixels	1600(H) x 1200(V) pixels	1280(H) x 1024(V) pixels
Performance	Grayscale	12-bit LUT, 4096 shades of gray	12-bit LUT, 4096 shades of gray	12-bit LUT, 4096 shades of gray
	Service	RS232C x 1 for Service port	Ear Jack x 1 for Service port	Ear Jack x 1 for Service port
	HDMI Input	HDMI Jack x 1 (typeA) for Digital RGB: TMDS Max: 1080p, 1920x1200/60Hz (WUXGA)	HDMI Jack x 1 (typeA) for Digital RGB: TMDS Max: 1080p, 1600x1200/60Hz (UXGA)	HDMI Jack x 1 (typeA) for Digital RGB: TMDS Max: 1080p, 1600x1200/60Hz (UXGA)
	DVI Input	DVI Jack x 2 (type D) for Digital RGB: TMDS Max: 1080p, 1920x1200 / 60Hz(WUXGA)	DVI Jack x 1 (type D) for Digital RGB: TMDS Max: 1080p, 1600x1200 / 60Hz(UXGA)	DVI Jack x 1 (type D) for Digital RGB: TMDS Max: 1080p, 1600x1200 / 60Hz(UXGA)
	RGB Input	D-sub Jack x 1/BNC Jax x 1for Analog RGB: 0.7[p-p](75Ω), H/CS/V:TTL(2.2kΩ), SOG: 1V[p-p](75Ω) Max: 1920x1200 / 60Hz(WUXGA)	D-sub Jack x 1/BNC Jax x 1for Analog RGB: 0.7[p-p](75Ω), H/CS/V:TTL(2.2kΩ), SOG: 1V[p-p](75Ω) Max: 1600x1200 / 60Hz(UXGA)	D-sub Jack x 1/BNC Jax x 1for Analog RGB: 0.7[p-p](75Ω), H/CS/V:TTL(2.2kΩ), SOG: 1V[p-p](75Ω) Max:1600x1200 / 60Hz(UXGA)
Input	HD - SDI Input	BNC Jack x 1 for Serial Input Common Mode: 2.2 V[p-p](75Ω) Max: 1920x1080/60Hz	BNC Jack x 1 for Serial Input Common Mode: 2.2 V[p-p](75Ω) Max: 1920x1080/60Hz	BNC Jack x1 for Serial Input Common Mode: 2.2 V[p-p](75Ω) Max: 1920x1080/60Hz
Signals	Component Input	BNC Jack x 1 for Y:1V[p-p](75Ω), Pb/Cb: 0.7V[p-p](75Ω), Pr/Cr: 7V[p-p](75Ω), 480i, 576i, 480p, 576p, 720p, 1080i, 1080p	BNC Jack x 1 for Y:1V[p-p](75Ω), Pb/Cb: 0.7V[p-p](75Ω), Pr/Cr: 7V[p-p](75Ω), 480i, 576i, 480p, 576p, 720p, 1080i, 1080p	BNC Jack x 1 for Y:1V[p-p](75Ω), Pb/Cb: 0.7V[p-p](75Ω), Pr/Cr: 7V[p-p](75Ω), 480i, 576i, 480p, 576p, 720p, 1080i, 1080p
	S-video Input	Mini DIN Jack x 1(4pin) for Y:1V[p-p](75Ω), C:0.286V[p-p](75Ω)[NTSC] Y:1V[p-p](75Ω), C:0.300V[p-p](75Ω)[PAL/SECAM]	Mini DIN Jack x 1(4pin) for Y:1V[p-p](75Ω), C:0.286V[p-p](75Ω)[NTSC] Y:1V[p-p](75Ω), C:0.300V[p-p](75Ω)[PAL/SECAM]	Mini DIN Jack x1 (4pin) for Y:1V[p-p](75Ω), C:0.286V[p-p](75Ω)[NTSC] Y:1V[p-p](75Ω), C:0.300V[p-p](75Ω)[PAL/SECAM]
	Video Input	BNC Jack x 1 for 1V[p-p](75 Ω) [NTSC/PAL/SECAM]	BNC Jack x 1 for 1V[p-p](75Ω) [NTSC/PAL/SECAM]	BNC Jack x 1 for 1V[p-p](75Ω) [NTSC/PAL/SECAM]
	DVI Output	DVI Jack x1 (type D) for Digital RGB: TMDSMax: 1080p, 1920x1200 / 60Hz(WUXGA)	N/A	N/A
	RGB Output	Analog RGB: 0.7[p-p](75Ω), H/CS/V:TTL(2.2kΩ), SOG:1V[p-p](75Ω) Max:1920x1200 /60Hz(UXGA)	Analog RGB: 0.7[p-p](75Ω), H/CS/V : TTL(2.2kΩ), SOG:1V[p-p](75Ω) Max: 1600x1200 / 60Hz(UXGA)	Analog RGB: 0.7[p-p](75Ω), H/CS/V : TTL(2.2kΩ), SOG:1V[p-p](75Ω) Max: 1600x1200 / 60Hz(UXGA)
Output Signals	HD - SDI Output	1920 Common Mode: 2.2 V[p-p](75Ω) Max: 1920x1080/60Hz	Serial Input Common Mode: 2.2 V[p-p](75Ω) Max:1920x1080/60Hz	Serial Input Common Mode: 2.2 V[p-p](75Ω) Max:1920x1080/60Hz
	Component Output	Y:1V[p-p](75Ω), Pb/Cb:0.7V[p-p](75Ω), Pr/Cr: 7V[p-p](75Ω), 480i, 576i, 480p, 576p, 720p, 1080i, 1080p	Y:1V[p-p](75Ω), Pb/Cb:0.7V[p-p](75Ω), Pr/Cr: 7V[p-p](75Ω), 480i, 576i, 480p, 576p, 720p, 1080i, 1080p	Y:1V[p-p](75Ω), Pb/Cb:0.7V[p-p](75Ω), Pr/Cr: 7V[p-p](75Ω), 480i, 576i, 480p, 576p, 720p, 1080i, 1080p
	S-video Output	Y:1V[p-p](75Ω), C:0.286V[p-p](75Ω)[NTSC] Y: 1V[p-p](75Ω), C:0.300V[p-p](75Ω)[PAL / SECAM]	Y:1V[p-p](75Ω), C:0.286V[p-p](75Ω)[NTSC] Y:1V[p-p](75Ω), C:0.300V[p-p](75Ω)[PAL/SECAM]	Y:1V[p-p](75Ω), C:0.286V[p-p](75Ω)[NTSC] Y:1V[p-p](75Ω), C:0.300V[p-p](75Ω)[PAL/SECAM]
	Video Output	1V[p-p](75Ω) [NTSC / PAL / SECAM]	1V[p-p](75Ω) [NTSC / PAL / SECAM]	1V[p-p](75Ω) [NTSC / PAL / SECAM]
Power	Input	DC 24V 6.25A Max.	DC 18V 5A Max.	DC 12V 7A Max.
	Consump-tion	98W Max.	70W Max.	43W Max.
Features	Calibration mode	N/A	Calibration mode, Gamma shift	Calibration mode, Gamma shift
	OSD info display	Operating time,Gamma, etc	Operating time, Luminance Settings, Gamma, etc	Operating time, Luminance Settings, Gamma, etc
	Touch Screen	Optional	Optional	Optional
	USB Hub	USB2.0 upstream x 1 / downstream x 2	USB2.0 upstream x 1 / downstream x 2	USB2.0 upstream x1 / downstream x 2
Dhuning	Stand	Tilt, Lift, Swivel, Pivot	Tilt, Lift, Swivel, Pivot	Tilt, Lift, Swivel, Pivot
Physical	Cabinet Color/Weight	White / 8kg / 6kg	White / With stand: 7.5 Kgs / Without stand: 5.5 Kgs	White / With stand: 7.5 Kgs / Without stand: 5.5 Kg
	Mount Certification	100mm x 100mm VESA standard DD(KC, CE, FCC, VCCI, UL), CB, FDA510(k)(in progress)	100mm x 100mm VESA standard MDD(KC, CE, FCC, VCCI, UL), FDA510(k)(in progress)	100mm x 100mm VESA standard
	Accessories		DVI cable, USB_cable, Operation Manual, Warranty Certific	MDD(KC, CE, FCC, VCCI, UL), FDA510(k)(in progress





Medical Image Consulting System

Medical Image Consulting System is unique medical imaging solution designed for the needs of extra-large sized imaging display in a variety of medical environments, which are applicable to various medical environments as medical conference, PACS, surgical monitoring, medical presentation and information.

Features



Informatic M420F4 / M470F4 / M550F4 / M650F4 / M720F4 / M840Z5 Surgical M420FE / M470FE / M550FE / M650FE / M720FE / M840Z5

42, 47, 55, 65, 72-inch Full HD Color 84-inch UHD (Ultra High-Definition) Color

Full HD Medical Imaging Solution DICOM GSDF 12-bit LUT compliant display

Medical Image Consulting System Theater Displays are unique medical imaging solution designed for the needs of extra-large sized imaging display in a variety of medical environments, which are applicable to various medical environments as medical conference, visual / audio education, surgical monitoring, medical presentation and information, PACS image viewing system, etc. The ruggedized housing design with a built-in PC and the infrared touch operating system(optional) and the wide connectivity with a variety of analog / digital input/output terminals provide medical experts with much more applications.

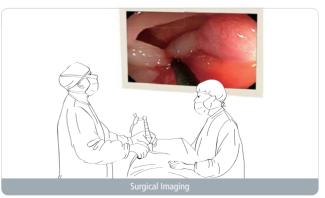


Applications









Clinical Review Displays



12-bit DICOM LUT gray scale

In compliance with the DICOM 3.14 Look-up Table, MICS is designed as a medical image viewing system that can be applied in various hospital environments such as PACS, HIS, RIS, etc.



High-brightness (700cd/m²) - (M650FE, M650F4, M720FE, M720F4)

Unlike those commercial information displays that normally use general TV panels with about 400 cd/m², MID applies a superb quality industrial-purpose LCD panel with a high-brightness at 700cd/m² so provides crisp medical images even in semi-outdoor environments in hospital.



Window PC system Inside (Optional)

Incorporated with the latest-version PC system, MICS provides a utility value as a large-sized medical image viewing system in PACS, HIS, RIS etc.



Infrared Rays Touch Screen

The infrared rays touch screen control mode maximizes the efficient value of the super-sized display machine with its unique functions such as zoon-in/out, drag, image rotation, electro writing, etc. Plus, unlike the capacitive overlay or resistive overlay mode that requires a certain level of surface pressure on the screen, the infrared rays touch screen mode is the most outstanding in the point of durability and senses even touch by gloved fingers and such objects. When it is utilized with the electro-writing application, its ultimate uses as a medical information display system, a video conference system, a presentation system and an education system is completed.



Image Size Adjustment

Image Size can be adjusted to user's preference mode. Available modes are Auto, Fill All, Fill Aspect, Zoom, one to one.

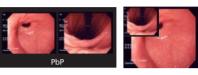


WALL & STAND & CEILING MOUNT



PiP / PhP

PbP & PiP function allow users to display two different images from two different sources (Digital/Analog), which is required when surgery and flexible endoscope are performed at once, or when endoscopic procedure is performed with ultrasound imaging or else.





Standard Color Temperature

Plus to the color temperature D65 that enables graphic editing and endoscope image display at standard color tone, clear base and blue base mode in compliance with DICOM GSDF Part 14 enables CRT users to be immediately adapted to LCD monitors with no rejection symptoms.



Warranty

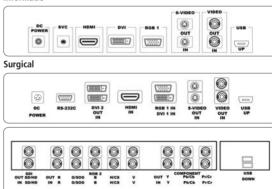
KOSTEC and its authorized distributors offer aa three-year limited warranty.



Connectivity with a variety of signal I/O ports

Equipped with various analog and digital signal I/O ports inclusive of the analog BNC ports for RGB, CVBS video and components, MICS can be applicable even in the modality systems such as X-ray, endoscope and ultrasound imaging system, as well as PACS, HIS and RIS.







Medical Image Consulting System

Multi-Image Consulting System

Medical Image Consulting System



M601Z5 / M840Z5

60.1-inch / 84-inch Ultra-High Definition Color Display

As medical environments are getting more modernized, demand for visualized information is growing bigger, and, as the visualized information is getting more diversified, extremely large sized high-resolution display management system is required for integrated multi-image consulting in every imaging environments such as vascular interventional radiology rooms, control rooms and even operating rooms.



Integrated Seamless Multi-imaging



6 split image



Video Routing System

As KOSTEC provides clients big inch screens for their more efficient use in surgical environment, the video routing system will be offered as the combination with displays to maximize the efficiency and the purpose of multi-display image process splitting windows in correct resolution.



Video Scalers



Universal Input Seamless Switcher

ecial Utility Solutions for









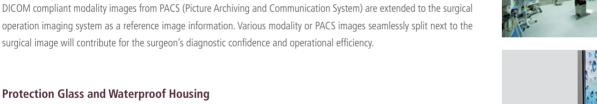






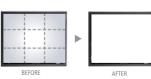
















CAL STANDARD Gamma Curve Calibration Mode Hotkey (CMH)

Features

Applications

Operational Efficiency

Vascular Interventional Radiology Imaging Solution

Integrated Seamless Multi-image at a Single View

interventional radiologists at a single glance.

Control Room Imaging Solution

operational efficiency and result in the operation room.

Operating Room Imaging Solution

Protection Glass and Waterproof Housing

PACS Image Extension to Operating Environments

housing for protection from water drops, disinfectants and damages.

Functional Extension of Control Room

High-resolution Multi-image Information for Diagnostic Confidence and

Integrated high-resolution image information helps surgical experts to perform operation with more efficiency and more confidence. This multi-image consulting system integrates high-resolution images seamlessly from X-ray, CT, MRI, Ultrasound or other imaging modalities, providing interventional radiologists ever accurate diagnostic information.

Various modality images seamlessly integrated in the extremely high-resolution display transfer overall information to

This centralized multi-image information system will expand function of the control room, which will contribute to

For the sake of hygienic purpose and safety, this multi-image display unit comes with anti-glare tempered glass and robust

DUAL LINK DVI DVI DVI INPUT

surgical image will contribute for the surgeon's diagnostic confidence and operational efficiency.

Protection Glass

tartu

w/ Backlight Contr

w/o Backlight Co

Brightness Leveling Technolgy (BLT)

몸 Network Calibration Managment System

Standard Color Temparature











Specific	ations	Medical Imag	ge Consulting System Specifications
Surgical	H Remote Controller M420FE / M470FE / M550FE Sofe K Controller Controller K Controller Controler Controller Controller Controller Controlle	h Screen (Option) & PC INSIDE Option	Water-proof IPX5 8
	E Cor M420FE I III	ED E E E E E E E E E E E E E	ED E E E E E E E E E E E E E
Model	M420FE	M470FE	M550FE
Panel Display Mode	42-inch TFT LCD Color Display [LG] Transmissive mode Normally Black	47-inch TFT LCD Color Display [LG] Transmissive mode Normally Black	55-inch TFT LCD Color Display [LG] Transmissive mode Normally Black
Resolution	1920(H) x 1080(V)	1920(H) x 1080(V)	1920(H) x 1080(V)
Contrast Ratio	1300 : 1 (Typ.)	1300 : 1 (Typ.)	1300 : 1 (Typ.)
Active Area	930.24(H) x 523.26(V)	1039.68(H) x 584.82(V)	1209.6(H) x 680.4(V)
Pixel Pitch	0.4845(H) x 0.4845(V) [mm]	0.5414(H) x 0.5414(V) [mm]	0.630(H) x 0.630(V) [mm]
Luminance (cd/m ²)	450 (cd/m²) White Lumi @ LED	450 (cd/m²) White Lumi @ LED	450 (cd/m²) White Lumi @ LED
Response Time	9ms (Typ. Tr+Tf)	9ms (Typ. Tr+Tf)	9ms (Typ. Tr+Tf)
Viewing Angle	178° / 178° (H/V)	178° / 178° (H/V)	178° / 178° (H/V)
Aspect Ratio	16:9	16:9	16:9
Frequency	67.8 KHz (H) / 60 Hz (V)	67.8 KHz (H) / 60 Hz (V)	67.10 KHz (H) / 60 Hz (V)
Color Depth	1.06 Billion (10-bit)	1.06 Billion (10-bit)	1.06 Billion (10-bit)
Touch Screen(option)	Infrared rays detection mode Typical centroid accuracy 2mm	Infrared rays detection mode Typical centroid accuracy 2mm	Infrared rays detection mode Typical centroid accuracy 2mm
Input terminals	RS232C Jack x 1 for service port HDMI input x 1 DVI input x 2 HD - SDI input x 1 RGB input (D-sub x 1/ BNC x 1) Component Input (BNC x 1) S-video input (4-pin Mini DIN Jack x 1) Video input (BNC x 1)	RS232C Jack x 1 for service port HDMI input x 1 DVI input x 2 HD - SDI input x 1 RGB input (D-sub x 1/ BNC x 1) Component Input (BNC x 1) S-video input (4-pin Mini DIN Jack x 1) Video input (BNC x 1)	RS232C Jack x 1 for service port HDMI input x 1 DVI input x 2 HD - SDI input x 1 RGB input (D-sub x 1/ BNC x 1) Component Input (BNC x 1) S-video input (4-pin Mini DIN Jack x 1) Video input (BNC x 1)
Output terminals	DVI output x 1 HD - SDI output x 1 Video output (BNC x 1)	DVI output x 1 HD - SDI output x 1 Video output (BNC x 1)	DVI output x 1 HD - SDI output x 1 Video output (BNC x 1)
General	100V~240V AC, 50/60Hz Power Consumption: TBD Dimension (w/o stand): TBD (mm) Weight (w/o stand): TBD (Kgs)	100V~240V AC, 50/60Hz Power Consumption: TBD Dimension (w/o stand): TBD (mm) Weight (w/o stand): TBD (Kgs)	100V~240V AC, 50/60Hz Power Consumption: TBD Dimension (w/o stand): TBD (mm) Weight (w/o stand): TBD (Kgs)
Environmental Conidions	Temp.(operational/ storage):5~35 °C Humidity (operational/ storage): 35~75%	Temp.(operational/ storage):5~35 °C Humidity (operational/ storage): 35~75%	Temp.(operational/ storage): $5{\sim}35~^\circ C$ Humidity (operational/ storage): $35{\sim}75\%$
Certification	CE	CE	CE
PC (option)	option	al on buyer's requirement	

Medica	l Image	Consu	lting	System
--------	---------	-------	-------	--------



2 65" M650FE 500

M650FE

65-inch TFT LCD Color Display [AUO]

Transmissive mode Normally Black

1920(H) x 1080(V)

1428.48(H) x 803.52(V)

0.807(H) x 0.807(V) [mm]

700 (cd/m²) White Lumi @ CCFL

4000 : 1 (Typ.)

8 ms (Typ. Tr+Tf)

178° / 178° (H/V)

71.51KHz (H) / 63Hz (V)

Infrared rays detection mode

Typical centroid accuracy 2mm

RS232C Jack x 1 for service port

RGB input (D-sub x 1/ BNC x 1) Component Input (BNC x 1) S-video input (4-pin Mini DIN Jack x

Video input (BNC x 1) DVI output x 1 HD - SDI output x 1 Video output (BNC x 1)

100V~240V AC, 50/60Hz Power Consumption: TBD Dimension (w/o stand): TBD (mm) Weight (w/o stand): TBD (Kgs) Temp.(operational/ storage) : 5~35 Humidity (operational/ storage) : 35-

CE

1.07 Billion (10-bit)

HDMI input x 1

DVI input x 1 HD - SDI input x 1

16:9



M720FE

72-inch TFT LCD Color Display [LG]

Transmissive mode Normally Black

1920(H) x 1080(V)

12 ms (Typ. Tr+Tf)

178° / 178° (H/V)

16.7M (8-bit)

HDMI input x 1

71.51KHz (H) / 60Hz (V)

Infrared rays detection mode

Typical centroid accuracy 2mm

RS232C Jack x 1 for service port

16:9

1595.52(H) x 897.48(V)

0.831(H) x 0.831(V) [mm]

700(cd/ m^2) White Lumi @ LED

1100 : 1 (Typ.)



84" M840Z5 🔜 💷

M840Z5

84-inch TFT LCD Color Display [LG]

Transmissive mode Normally Black

3840(H) x 2160(V)

1860.48(H) x 1046.52(V)

0.4845(H) x 0.4845(V) [mm]

500 (cd/m²) White Lumi @ LED

1600 : 1 (Typ.)

5 ms (Typ. Tr+Tf)

178° / 178° (H/V)

71.51KHz (H) / 60Hz (V)

Infrared rays detection mode

Typical centroid accuracy 2mm

1.06 Billion (10-bit)

16:9

< 1)	DVI input x 1 HD - SDI input x 1 RGB input (D-sub x 1/ BNC x 1) Component Input (BNC x 1) S-video input (4-pin Mini DIN Jack x 1) Video input (BNC x 1)	DP input x 2 DVI input x 2
	DVI output x 1 HD - SDI output x 1 Video output (BNC x 1)	N/A
	100V~240V AC, 50/60Hz Power Consumption: TBD Dimension (w/o stand): TBD (mm) Weight (w/o stand): TBD (Kgs)	100V~240V AC, 50/60Hz Power Consumption: TBD Dimension (w/o stand): TBD (mm) Weight (w/o stand): TBD (Kgs)
°C ~75%	Temp.(operational/ storage) : 5~35 °C Humidity (operational/ storage) : 35~75%	Temp.(operational/ storage) : $5\sim35~^{\circ}$ C Humidity (operational/ storage) : $35\sim75\%$
	CE	CE
	optional on buyer's requirement	

Speci	fications		Medical Image Co	nsulting System Specifications
Inform	natic +	PC & Touch Screen (Opti	on) 8 LED	
		LED LED LED LED LED LED LED LED	LED	LE Control of the second seco
Mode		M420F4	M470F4	M550F4
isplay				
	Panel	42-inch TFT LCD Color Display [LG]	47-inch TFT LCD Color Display [LG]	55-inch TFT LCD Color Display [LG]
	Aspect ratio	16:9	16:9	16:9
	Resolution Pixel Pitch	1920(H) x 1080(V)	1920(H) x 1080(V)	1920(H) x 1080(V)
	Displayable Colors	0.4845(H) x 0.4845(V) [mm] 1.06 Billion (10-bit)	0.5414(H) x 0.5414(V) [mm] 1.06 Billion (10-bit)	0.630(H) x 0.830(V) [mm] 1.06 Billion (10-bit)
	Brightness	450 (cd/m²) White Lumi @ LED	450 (cd/m²) White Lumi @ LED	450 (cd/m ²) White Lumi @ LED
	Contrast Ratio	1300 : 1 (Typ.)	1300 : 1 (Typ.)	1300 : 1 (Typ.)
	Display Mode	Transmissive mode Normally Black	Transmissive mode Normally Black	Transmissive mode Normally Black
Re	sponse Time (Typical)	9ms (Typ. Tr+Tf)	9ms (Typ. Tr+Tf)	9ms (Typ. Tr+Tf)
	Viewing Angle(H/V)	178 [°] / 178 [°] (H/V)	178 [°] / 178 [°] (H/V)	178° / 178° (H/V)
	Touch Screen	Optional	Optional	Optional
/ Out Terminals				
	Speaker Output	External Speaker Ear Jack x 1	External Speaker Ear Jack x 1	External Speaker
	Service HDMI Input	HDMI Jack x (Type A) [For Built in PC]	HDMI Jack x (Type A) [For Built in PC]	Ear Jack x 1 HDMI Jack x (Type A) [For Built in PC]
	DVI Input	DVI Jack x 1 (Type D)	DVI Jack x 1 (Type D)	DVI Jack x 1 (Type D)
	RGB Input	D-Sub Jack x 1 BNC Jack x1	D-Sub Jack x 1 BNC Jack x1	D-Sub Jack x 1 BNC Jack x1
	RGB Output	BNC Jack x 1	BNC Jack x 1	BNC Jack x 1
	HD - SDI Input	BNC Jack x 1	BNC Jack x 1	BNC Jack x 1
	HD - SDI Output	BNC Jack x 1	BNC Jack x 1	BNC Jack x 1
	Component Input	BNC Jack x 1 BNC Jack x 1	BNC Jack x 1 BNC Jack x 1	BNC Jack x 1
	Component Output	Mini DIN Jack x 1 (4 pin)	Mini DIN Jack x 1 (4 pin)	BNC Jack x 1
	S-Video Input S-Video Output	Mini DIN Jack x 1 (4 pin)	Mini DIN Jack x 1 (4 pin)	Mini DIN Jack x 1 (4 pin) Mini DIN Jack x 1 (4 pin)
	Video Input	BNC Jack x 1	BNC Jack x 1	BNC Jack x 1
	Video Output	BNC Jack x 1	BNC Jack x 1	BNC Jack x 1
	Audio Input	Ear Jack x 3 [For External Input]	Ear Jack x 3 [For External Input]	Ear Jack x 3 [For External Input]
	Audio Output	Ear Jack x 1 [For Built in PC] Ear Jack x 1	Ear Jack x 1 [For Built in PC] Ear Jack x 1	Ear Jack x 1 [For Built in PC] Ear Jack x 1
	Audio Output	Edi Jack X I	Lai Jack X I	Edi JdCK X I
eneral Bourse Sum	alu:			
Power Supp Power Consumption			AC 100V ~ 240V, 50/60Hz TBD	
ensions (Without Stand)[W			TBD	
Weight (Without	t Stand)		TBD	
vironment Condition				
Temperature	Operational		5 ~ 35 °C	
p	Storage		5 ~ 35 °C	
Humidity	Operational		35 ~ 75 %	
	Storage Specifications		35 ~ 75 %	
T-IN PC (Optional)	Certifications		optional on buyer's requirement TBD	
Accessories	Standard		Owner's Instruction, Power Cord, Windows7(English)	
Accessories			nt Bracket, Ceiling-Mount Bracket, HDMI Cable, DVI Cable, VGA D-	

Clinical Review Displays

Surgical Displays

Medical Image Consulting System



2 65" M650F4 🌉



2 72" Color M720F4



Medical Image Consulting System

84" M840Z5 🄜 📖

16 : 9	72-inch TFT LCD Color Display [LG] 16 : 9 1920(H) x 1080(V) 0.802(H) x 0.802(V) [mm] 16.7M (8-bit) 700(cd/m') White Lumi @ LED 1100 : 1 (Typ.) Transmissive mode Normally Black 12 ms (Typ. Tr+Tf) 178° (H/V) nfrared rays Detection Typical centroid accuracy 2mm External Speaker Ear Jack x 1 HDM Jack x (Type A) [For Built in PC] DVI Jack x 1 (Type D) D-Sub Jack x 1 BNC Jack x 1	84-inch TFT LCD Color Display [LG] 16 : 9 3840(H) x 2160(V) 0.4845(H) x 0.4845(V) [mm] 1.06 Billion (10-bit) 500(cd/m²) White Lumi @ LED 1600 : 1 (Typ.) Transmissive mode Normally Black 5 ms (Typ. Tr+Tf) 178 ^e / 178 ^e (H/V) Infrared rays Detection Typical centroid accuracy 2mm External Speaker DP Jack x 2 DVI Jack x 2 (Type D)
16 : 9	16 : 9 1920(H) x 1080(V) 0.802(H) x 0.802(V) [mm] 16.7M (8-bit) 700(cd/m²) White Lumi @ LED 1100 : 1 (Typ.) Transmissive mode Normally Black 12 ms (Typ. Tr+Tf) 178 [°] / 178 [°] (H/V) Infrared rays Detection Typical centroid accuracy 2mm External Speaker External Speaker	16 : 9 3840(H) x 2160(V) 0.4845(H) x 0.4845(V) [mm] 1.06 Billion (10-bit) 500(cd/ m²) White Lumi @ LED 1600 : 1 (Typ.) Transmissive mode Normally Black 5 ms (Typ. Tr+Tf) 178° / 178° (H/V) Infrared rays Detection Typical centroid accuracy 2mm External Speaker DP Jack x 2
1920(H) x 1080(V)	1920(H) x 1080(V) 0.802(H) x 0.802(V) [mm] 16.7M (8-bit) 700(cd/m') White Lumi @ LED 1100 : 1 (Typ.) Transmissive mode Normally Black 12 ms (Typ. Tr+Tf) 178' / 178' (H/V) nfrared rays Detection Typical centroid accuracy 2mm External Speaker Ear Jack x 1 HDM Jack x 1 (Type A) [For Built in PC] VJ Jack x 1 BNC Jack x1 BNC Jack x 1 BNC Jack x 1 BNC Jack x 1	3840(H) x 2160(V) 0.4845(H) x 0.4845(V) [mm] 1.06 Billion (10-bit) 500(cd/m²) White Lumi @ LED 1600 : 1 (Typ.) Transmissive mode Normally Black 5 ms (Typ. Tr+Tf) 178° / 178° (H/V) Infrared rays Detection Typical centroid accuracy 2mm External Speaker DP Jack x 2
0.807(H) x 0.807(V) [mm] 0 1.07 Billion (10-bit) 1 700 (cd/m²) White Lumi @ CCFL 1 4000 : 1 (Typ.) 1 Transmissive mode Normally Black 1 8 ms (Typ. Tr+Tf) 1 178 [°] / 178 [°] (H/V) 1 Infrared rays Detection Typical centroid accuracy 2mm 1 External Speaker 1 Ear Jack x 1 1 HDMI Jack x (Type A) [For Built in PC] 1 DVI Jack x 1 (Type D) 1 DX Jack x 1 BNC Jack x 1 1 BNC Jack x 1 1 BNC Jack x 1 1 BNC Jack x 1 1 BNC Jack x 1 1 BNC Jack x 1 1 BNC Jack x 1 1 BNC Jack x 1 1 BNC Jack x 1 1 BNC Jack x 1 1 BNC Jack x 1 1 BNC Jack x 1 1 BNC Jack x 1 1 BNC Jack x 1 1 BNC Jack x 1 1 BNC Jack x 1	D.802(H) x 0.802(V) [mm] 16.7M (8-bit) 700(cd/m') White Lumi @ LED 1100 : 1 (Typ.) Transmissive mode Normally Black 12 ms (Typ. Tr+Tf) 178° / 178° (H/V) nfrared rays Detection Typical centroid accuracy 2mm External Speaker Ear Jack x 1 HDM Jack x (Type A) [For Built in PC] VJ Jack x 1 (Type D) D-Sub Jack x 1 BNC Jack x1 BNC Jack x 1 BNC Jack x 1 BNC Jack x 1	0.4845(H) x 0.4845(V) [mm] 1.06 Billion (10-bit) 500(cd/m²) White Lumi @ LED 1600 : 1 (Typ.) Transmissive mode Normally Black 5 ms (Typ. Tr+Tf) 178 [°] / 178 [°] (H/V) Infrared rays Detection Typical centroid accuracy 2mm External Speaker DP Jack x 2
1.07 Billion (10-bit) Image: Second	16.7M (8-bit) 700(cd/m ²) White Lumi @ LED 1100 : 1 (Typ.) Transmissive mode Normally Black 12 ms (Typ. Tr+Tf) 178° / 178° (H/V) nfrared rays Detection Typical centroid accuracy 2mm External Speaker Ear Jack x 1 HDMI Jack x (Type A) [For Built in PC] 20 Jack x 1 HDM Jack x 1 BNC Jack x1 BNC Jack x 1 BNC Jack x 1 BNC Jack x 1	1.06 Billion (10-bit) 500(cd/ m') White Lumi @ LED 1600 : 1 (Typ.) Transmissive mode Normally Black 5 ms (Typ. Tr+Tf) 178° / 178° (H/V) Infrared rays Detection Typical centroid accuracy 2mm External Speaker DP Jack x 2
700 (cd/m') White Lumi @ CCFL Image: CCFL 4000 : 1 (Typ.) Image: CCFL Transmissive mode Normally Black Image: CCFL 8 ms (Typ. Tr+Tf) Image: CCFL 178" / 178" (H/V) Image: CCFL Infrared rays Detection Typical centroid accuracy 2mm Image: CCFL External Speaker Ear Jack x 1 Image: CCFL DMI Jack x (Type A) [For Built in PC] Image: CCFL DVI Jack x 1 (Type D) Image: CCFL DVI Jack x 1 (Type D) Image: CCFL DSL Jack x 1 Image: CCFL BNC Jack x 1 Image: CCFL <tr< td=""><td>700(cd/m²) White Lumi @ LED 1100 : 1 (Typ.) Transmissive mode Normally Black 12 ms (Typ. Tr+Tf) 178° (H/V) nfrared rays Detection Typical centroid accuracy 2mm External Speaker Ear Jack x 1 HDM Jack x (Type A) [For Built in PC] DVJ Jack x 1 (Type D) D-Sub Jack x 1 BNC Jack x1 BNC Jack x 1 BNC Jack x 1 BNC Jack x 1</td><td>500(cd/m²) White Lumi @ LED 1600 : 1 (Typ.) Transmissive mode Normally Black 5 ms (Typ. Tr+Tf) 178[°] / 178[°] (H/V) Infrared rays Detection Typical centroid accuracy 2mm External Speaker DP Jack x 2</td></tr<>	700(cd/m ²) White Lumi @ LED 1100 : 1 (Typ.) Transmissive mode Normally Black 12 ms (Typ. Tr+Tf) 178° (H/V) nfrared rays Detection Typical centroid accuracy 2mm External Speaker Ear Jack x 1 HDM Jack x (Type A) [For Built in PC] DVJ Jack x 1 (Type D) D-Sub Jack x 1 BNC Jack x1 BNC Jack x 1 BNC Jack x 1 BNC Jack x 1	500(cd/m ²) White Lumi @ LED 1600 : 1 (Typ.) Transmissive mode Normally Black 5 ms (Typ. Tr+Tf) 178 [°] / 178 [°] (H/V) Infrared rays Detection Typical centroid accuracy 2mm External Speaker DP Jack x 2
4000 : 1 (Typ.) Transmissive mode Normally Black 1 8 ms (Typ. Tr+Tf) 1 178 ⁷ / 178 ⁸ (H/V) 1 Infrared rays Detection Typical centroid accuracy 2mm 1 External Speaker Ear Jack x 1 1 HDMI Jack x (Type A) [For Built in PC] 1 DVI Jack x 1 (Type D) 1 DSIC Jack x 1 1 BNC Jack x 1 1 BND Jack x 1(4 pin) 1	1100 : 1 (Typ.) Transmissive mode Normally Black 12 ms (Typ. Tr+Tf) 178° / 178° (H/V) nfrared rays Detection Typical centroid accuracy 2mm External Speaker Ear Jack x 1 HDMI Jack x (Type A) [For Built in PC] DVI Jack x 1 (Type D) D-Sub Jack x 1 BNC Jack x1 BNC Jack x 1 BNC Jack x 1 BNC Jack x 1	1600 : 1 (Typ.) Transmissive mode Normally Black 5 ms (Typ. Tr+Tf) 178° / 178° (H/V) Infrared rays Detection Typical centroid accuracy 2mm External Speaker DP Jack x 2
Transmissive mode Normally Black 1 8 ms (Typ. Tr+Tf) 1 178 [°] / 178 [°] (H/V) 1 Infrared rays Detection Typical centroid accuracy 2mm 1 External Speaker 1 Ear Jack x 1 1 HDMI Jack x (Type A) [For Built in PC] 1 DVI Jack x 1 (Type D) 1 DVI Jack x 1 BNC Jack x 1 1 BNC Jack x 1 1 BNC Jack x 1 1 BNC Jack x 1 1 BNC Jack x 1 1 BNC Jack x 1 1 BNC Jack x 1 1 BNC Jack x 1 1 BNC Jack x 1 1 BNC Jack x 1 1 BNC Jack x 1 1 BNC Jack x 1 1 BNC Jack x 1 1 BNC Jack x 1 1 BNC Jack x 1 1 BNC Jack x 1 1 BNC Jack x 1 1 BNC Jack x 1 1 BNT Jack x 1 (4 pin) 1	Transmissive mode Normally Black 12 ms (Typ. Tr+Tf) 178° (H/V) nfrared rays Detection Typical centroid accuracy 2mm External Speaker Ear Jack x 1 HDML Jack x 1 (Type A) [For Built in PC] DVL Jack x 1 (Type D) D-Sub Jack x 1 BNC Jack x1 BNC Jack x 1 BNC Jack x 1 BNC Jack x 1	Transmissive mode Normally Black 5 ms (Typ. Tr+Tf) 178° / 178° (H/V) Infrared rays Detection Typical centroid accuracy 2mm External Speaker DP Jack x 2
8 ms (Typ. Tr+Tf) 178° (178° (H/V) 1178° (178° (H/V) 1 Infrared rays Detection Typical centroid accuracy 2mm 1 External Speaker E Ear Jack x 1 1 HDMI Jack x (Type A) [For Built in PC] 1 DVI Jack x 1 (Type D) 1 DVJ Jack x 1 BNC Jack x 1 1 BNC Jack x 1 1 BNC Jack x 1 1 BNC Jack x 1 1 BNC Jack x 1 1 BNC Jack x 1 1 BNC Jack x 1 1 BNC Jack x 1 1 BNC Jack x 1 1 BNC Jack x 1 1 BNC Jack x 1 1 BNC Jack x 1 1 BNC Jack x 1 1 BNC Jack x 1 1 BNC Jack x 1 1 BNC Jack x 1 1 BND Jack x 1 (4 pin) 1	12 ms (Typ. Tr+Tf) 178° (H/V) nfrared rays Detection Typical centroid accuracy 2mm External Speaker Ear Jack x 1 HDMI Jack x (Type A) [For Built in PC] DVI Jack x 1 (Type D) D-Sub Jack x 1 BNC Jack x1 BNC Jack x 1 BNC Jack x 1 BNC Jack x 1	5 ms (Typ. Tr+Tf) 178° / 178° (H/V) Infrared rays Detection Typical centroid accuracy 2mm External Speaker DP Jack x 2
178° / 178° (H/V) Infrared rays Detection Typical centroid accuracy 2mm Infrared rays Detection Typical centroid accuracy 2mm I External Speaker E Ear Jack x 1 E HDMI Jack x (Type A) [For Built in PC] I DVI Jack x 1 (Type D) I DVJ Jack x 1 BNC Jack x 1 I Imin DIN Jack x 1 (4 pin) I	178° / 178° (H/V) nfrared rays Detection Typical centroid accuracy 2mm External Speaker Ear Jack x 1 HDMI Jack x (Type A) [For Built in PC] DVI Jack x 1 (Type D) D-Sub Jack x 1 BNC Jack x1 BNC Jack x 1 BNC Jack x 1 BNC Jack x 1	178° / 178° (H/V) Infrared rays Detection Typical centroid accuracy 2mm External Speaker DP Jack x 2
Infrared rays Detection Typical centroid accuracy 2mm I External Speaker E Ear Jack x 1 E HDMI Jack x (Type A) [For Built in PC] E DVI Jack x 1 (Type D) E DSub Jack x 1 BNC Jack x 1 E Mini DIN Jack x 1 (4 pin) F	nfrared rays Detection Typical centroid accuracy 2mm External Speaker Ear Jack x 1 HDMI Jack x (Type A) [For Built in PC] DVI Jack x 1 (Type D) D-Sub Jack x 1 BNC Jack x1 BNC Jack x 1 BNC Jack x 1 BNC Jack x 1	Infrared rays Detection Typical centroid accuracy 2mm External Speaker DP Jack x 2
External Speaker E Ear Jack x 1 E HDMI Jack x (Type A) [For Built in PC] E DVI Jack x 1 (Type D) E DSub Jack x 1 BNC Jack x 1 E Mini DIN Jack x 1 (4 pin) T	External Speaker Ear Jack x 1 HDMI Jack x (Type A) [For Built in PC] DVI Jack x 1 (Type D) D-Sub Jack x 1 BNC Jack x1 BNC Jack x 1 BNC Jack x 1 BNC Jack x 1	External Speaker DP Jack x 2
Ear Jack x 1 E HDMI Jack x (Type A) [For Built in PC] H DVI Jack x 1 (Type D) E D-Sub Jack x 1 BNC Jack x 1 E BND Jack x 1 (4 pin) F	Ear Jack x 1 HDMI Jack x (Type A) [For Built in PC] DVI Jack x 1 (Type D) D-Sub Jack x 1 BNC Jack x1 BNC Jack x 1 BNC Jack x 1 BNC Jack x 1	DP Jack x 2
Ear Jack x 1 If HDMI Jack x (Type A) [For Built in PC] If DVI Jack x 1 (Type D) If D-Sub Jack x 1 BNC Jack x 1 If Mini DIN Jack x 1 (4 pin) If	Ear Jack x 1 HDMI Jack x (Type A) [For Built in PC] DVI Jack x 1 (Type D) D-Sub Jack x 1 BNC Jack x1 BNC Jack x 1 BNC Jack x 1 BNC Jack x 1	DP Jack x 2
HDMI Jack x (Type A) [For Built in PC] IF DVI Jack x 1 (Type D) If D-Sub Jack x 1 BNC Jack x 1 If Mini DIN Jack x 1 (4 pin) If Mini DIN Jack x 1 (4 pin) If	HDMI Jack x (Type A) [For Built in PC] DVI Jack x 1 (Type D) D-Sub Jack x 1 BNC Jack x1 BNC Jack x 1 BNC Jack x 1 BNC Jack x 1	
DVI Jack x 1 (Type D) I D-Sub Jack x 1 BNC Jack x 1 I Mini DIN Jack x 1 (4 pin) I Mini DIN Jack x 1 (4 pin) I	DVI Jack x 1 (Type D) D-Sub Jack x 1 BNC Jack x1 BNC Jack x 1 BNC Jack x 1 BNC Jack x 1	
D-Sub Jack x 1 BNC Jack x 1 Mini DIN Jack x 1 (4 pin) IIII Jack x 1 (4 pin) IIII Jack x 1 (4 pin) IIIII Jack x 1 (4 pin) IIIII Jack x 1 (4 pin) IIIII Jack x 1 (4 pin) IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	D-Sub Jack x 1 BNC Jack x1 BNC Jack x 1 BNC Jack x 1 BNC Jack x 1 BNC Jack x 1	
BNC Jack x 1 E Mini DIN Jack x 1 (4 pin) I	BNC Jack x 1 BNC Jack x 1	
BNC Jack x 1 E BNC Jack x 1 E BNC Jack x 1 E Mini DIN Jack x 1 (4 pin) F	BNC Jack x 1	
BNC Jack x 1 E BNC Jack x 1 E Mini DIN Jack x 1 (4 pin) F Mini DIN Jack x 1 (4 pin) F		
BNC Jack x 1 E Mini DIN Jack x 1 (4 pin) f Mini DIN Jack x 1 (4 pin) f	BNC Jack x 1	
Mini DIN Jack x 1 (4 pin) I Mini DIN Jack x 1 (4 pin) I		
Mini DIN Jack x 1 (4 pin)	BNC Jack x 1	
	Mini DIN Jack x 1 (4 pin)	
BNC lack x 1	Mini DIN Jack x 1 (4 pin)	
	BNC Jack x 1	
BNC Jack x 1	BNC Jack x 1	
	Ear Jack x 3 [For External Input] Ear Jack x 1 [For Built in PC]	Ear Jack x 1 [For External Input] Ear Jack x 1 [For Built in PC]
Ear Jack x 1	Ear Jack x 1	Ear Jack x 1
	AC 100V 240V 50/50U	
	AC 100V ~ 240V, 50/60Hz TBD	
	TBD	
	TBD	
	5 ~ 35 °C	
	5 ~ 35 °C	
	35 ~ 75 %	
	35 ~ 75 %	
CE, CB, CCC	optional on buyer's requirement	IBD
mote Controller, Owner's Instruction, Power Cord, Windows7(English)	Uwner's Instruction, Pow eiling-Mount Bracket, HDMI Cable, DVI Cable, VGA D-SUB Cable, VGA	er Cord, Windows7(English)

* The specifications are subject to change without notice

Ultrasound Imaging Custom-Solution

Ultrasound Imaging Custom-Solution

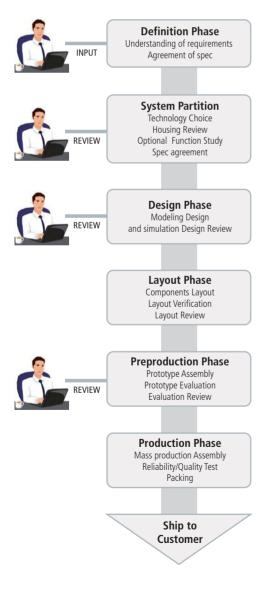


GCMM Gray & Chroma Mapping Method PATENT [1-1-2010-0789429-48]

Ultrasound Imaging Custom-Solution



Workflow Diagram



Turnkey Custom-solution; from design to manufacturing

KOSTEC provides the clients custom-made turnkey solution, which implies a series of services from design to manufacturing. In particular, custom-made solution of the main/sub display module including cabinet mold design is one of the key specializations. KOSTEC has long and wide experience in developing LCD display modules of ultrasound imaging systems.

With its well-organized domestic and global sourcing networks for major components including LCD panels and the integrated R&D capabilities for software & hardware solutions, Kostec is committed to providing high-quality custom-made services.

Just call or email us for a detailed consultation and shape up your ideas.

Specialized Area

We have many years of successful experience in the following fields:

- Development of custom design main/sub display module for ultrasound equipment
- Development of custom design monitor for radiology modalities
- Development of open-frame display devices
- Development of ruggedized display solutions

Workflow

Every work flows on the basis of a standard time and process-based schedule and every process is thoroughly documented for accuracy and clarity of the costs and quality management. We can get involved at any stage of the standard workflow, helping the client to achieve the goal.

- Firstly, we receive the client's inquiry and understand the requirements in detail. Every information from the client is kept in confidence on a non-disclosure agreement (NDA).
- We analyze and study the requirements and, in close cooperation with the client , approach a preliminary conclusion in respect of technology, time and cost within a week.
- On agreement in terms of the specification, time and price, our R&D system gets sub-systematized in no time into a number of subsystem for the fractionation of the work process. The sub-systematized development process is integrated for a final solution.
- Every intermediate outcome is tested and verified by our quality assurance department and thus any potential problem is removed or corrected.

The only and dedicated ultrasound image calibration method for accuracy and consistency

Why GCMM?

GCMM is a patent software-wise technical solution developed by KOSTEC for achievement of accurate ultrasound image display. As a new calibration technology dedicated for ultrasound imaging, GCMM, Gray & Chroma Mapping Method, has been developed to overcome technical limits of the existing calibration methods, ultimately creating ideal ultrasound image quality.

Diagnostic

MODALION (D213 Series)

5 21.3* Monoch

• 213 Series(21.3 inch)













2 21.3* MP Monochrome D213U5E 14 5,



2 21.3" MP Color D213U5 14 5,

N	Model	D213V5E	D213Q5E	D213Q5	D213U5E	D213U5
	Technology	21.3-inch TFT Monochrome IPS mode [CMI]	21.3-inch TFT Monochrome IPS mode [NLT]	21.3-inch TFT Color IPS mode [NLT]	21.3-inch TFT Monochrome IPS mode [NLT]	21.3-inch TFT Color IPS mode [NLT]
	Display Area	422.4(H)mm x 337.9V)mm	433.152(H)mm x 324.864(V)mm	433.152(H)mm x 324.864(V)mm	432.0(H)mm x 324.0(V)mm	432.0(H)mm x 324.0(V)mm
	Pixel Pitch	0.165(H)mm x 0.165(V)mm	0.2115(H)mm x 0.2115(V)mm	0.2115(H)mm x 0.2115(V)mm	0.270(H)mm x 0.270(V)mm	0.270(H)mm x 0.270(V)mm
	Contrast Ratio	850 : 1 (Typ.)	900 : 1 (Typ.)	700 : 1 (Тур.)	850 : 1 (Typ.)	1050 : 1 (Тур.)
LCD Panel	Luminance (Max)	1100 (cd/m ²)// Default- 500 (cd/m ²) or custom	1450 (cd/m ²)	800 (cd/m ²)/ Default- 500 (cd/m ²) or custom	1650 (cd/m²)	860 (cd/m ²)/ Default- 500 (cd/m ²) or custom
	Viewing Angle	170(H) / 170(V)	176(H) / 176(V)	176(H) / 176(V)	170(H) / 170(V)	176(H) / 176(V)
	Response Time	36ms (Tr +Tf) (Typ.)	27ms (Tr +Tf) (Typ.)	35ms (Tr +Tf) (Typ.)	23ms (Tr +Tf) (Typ.)	35ms (Tr +Tf) (Typ.)
Performance	Resolution	2560(H) x 2048(V) pixels	2048(H) x 1536(V) pixels	2048(H) x 1536(V) pixels	1600(H) x 1200(V) pixels	1600(H) x 1200(V) pixels
Periormance	Grayscale	14-bit LUT, 16,384 shades of gray				
	Input Terminals	DVI, DP				
Signals	Output	N/A	N/A	N/A	N/A	N/A
	USB Ports	USB2.0 upstream x 1 / downstream x 2	USB2.0 upstream x 1 / downstream x 2	USB2.0 upstream x 1 / downstream x 2	USB2.0 upstream x 1 / downstream x 4	USB2.0 upstream x 1 / downstream x 2
Douvor	Input	DC 12V 12.5A Max.	DC 12V 12.5A Max.	DC 24V 6.25A Max.	DC 12V 12.5A Max.	DC 24V 6.25A Max.
Power	Consumption	88W Max.	52W Max.	90W Max.	51W Max.	90W Max.
	Auto Calibration	Calibrating with the internal mount sensor(front)				
	Calibration mode shift	N/A	N/A	N/A	N/A	N/A
	DICOM mode shift	N/A	N/A	4-phased one-touch shift – DICOM BLUE/DICOM CLEAR/ 6500/ 9500	N/A	4-phased one-touch shift – DICOM BLUE/DICOM CLEAR/ 6500/ 9500
Features	Gamma mode shift	DICOM(LUT0)~LUT6	DICOM(LUT0)~LUT6	DICOM(LUT0)~LUT6	DICOM(LUT0)~LUT6	DICOM(LUTO)~LUT6
		Operating time, Luminance Settings,				
	OSD info display	Gamma, etc				
	Touch Screen	N/A	N/A	N/A	N/A	N/A
	Stand	Tilt, Lift, Swivel, Pivot				
	Cabinet Colors	Gray	Gray	Gray	Gray	Gray
Physical	Dimensions(WxHxD)	With stand: 390x510x240 Without stand: 391x476x107.2 (portrait)	With stand: 390x510x240 (portrait) / Without stand: 366x473x95.6 (portrait)	With stand: 390x510x240 (portrait)/ Without stand: 390x490x97 (portrait)	With stand: 390x510x240 (portrait) / Without stand: 366x473x95.6 (portrait)	With stand: 390x510x240 (portrait)/ Without stand: 390x490x97 (portrait)
	Weight	With stand: 9.5 Kgs / Without stand: 7 Kgs	With stand: 9 Kgs / Without stand: 6.5 Kgs	With stand: 9 Kgs / Without stand: 6.5 Kgs	With stand: 9 Kgs / Without stand: 6.5 Kgs	With stand: 9 Kgs / Without stand: 6.5 Kgs
	Mount	100mm x 100mm VESA standard				
Environment	Temperature		C	perational 0~40'C, Storage 0~40	C	
Condition	Humidity		Op	perational 35~75%, Storage 35~75	%	
C	Certification	MDD(FDA, KC, CE, FCC, VCCI, UL), FDA510(k)(in Progress)	MDD(FDA, KC, CE, FCC, VCCI, UL), FDA510(k)(in Progress)	MDD(KC, CE, FCC, VCCI,UL) FDA510(k)(in progress)	MDD(KC, CE, FCC, VCCI, UL), FDA510(k)(in progress)	MDD(KC, CE, FCC, VCCI,UL) FDA510(k)(in progress)
,	Accessories	AC adapter, Power cord, DVI cable, USB cable, Operation Manual, Warranty Certificate, Screen Cleaner	AC adapter, Power cord, DVI cable, USB cable, Operation Manual, Warranty Certificate, Screen Cleaner	AC adapter, Power cord, DVI cable, USB cable, Operation Manual, Warranty Certificate, Screen Cleaner	AC adapter, Power cord, DVI cable, USB cable, Operation Manual, Warranty Certificate, Screen Cleaner	AC adapter, Power cord, DVI cable, USB cable, Operation Manual, Warranty Certificate, Screen Cleaner
	Warranty	5 years				

Product Summar

2 21.3" MP Color

MODALION (D213 Series) (LED)

• 213 Series(21.3 inch)



Ν	Model	D213Q5E	D213Q5	D213U5E	D213U5
	Technology	21.3-inch TFT Monochrome IPS mode [NLT]	21.3-inch TFT Color IPS mode [NLT]	21.3-inch TFT Monochrome IPS mode [NLT]	21.3-inch TFT Color IPS mode [NLT]
	Display Area	433.152(H)mm x 324.864(V)mm	433.152(H)mm x 324.864(V)mm	432.0(H)mm x 324.0(V)mm	432.0(H)mm x 324.0(V)mm
	Pixel Pitch	0.2115(H)mm x 0.2115(V)mm	0.2115(H)mm x 0.2115(V)mm	0.270(H)mm x 0.270(V)mm	0.270(H)mm x 0.270(V)mm
	Contrast Ratio	1400 : 1 (Тур.)	1400 : 1 (Тур.)	1400 : 1 (Тур.)	1200 : 1 (Тур.)
LCD Panel	Luminance (Max)	1700 (cd/m²)	800 (cd/m ²)/ Default– 500 (cd/m ²) or custom	1900 (cd/m ²)	760 (cd/m ²)/ Default- 500 (cd/m ²) or custom
	Viewing Angle	176(H) / 176(V)	176(H) / 176(V)	170(H) / 170(V)	176(H) / 176(V)
	Response Time	27ms (Tr +Tf) (Typ.)	35ms (Tr +Tf) (Typ.)	23ms (Tr +Tf) (Typ.)	35ms (Tr +Tf) (Typ.)
Derformense	Resolution	2048(H) x 1536(V) pixels	2048(H) x 1536(V) pixels	1600(H) x 1200(V) pixe l s	1600(H) x 1200(V) pixels
Performance	Grayscale	14-bit LUT, 16,384 shades of gray	14-bit LUT, 16,384 shades of gray	14-bit LUT, 16,384 shades of gray	14-bit LUT, 16,384 shades of gray
	Input Terminals	DVI, DP	DVI, DP	DVI, DP	DVI, DP
Signals	Output	N/A	N/A	N/A	N/A
	USB Ports	USB2.0 upstream x 1 / downstream x 2	USB2.0 upstream x 1 / downstream x 2	USB2.0 upstream x 1 / downstream x 4	USB2.0 upstream x 1 / downstream x 2
Douver	Input	DC 12V 12.5A Max.	DC 24V 6.25A Max.	DC 12V 12.5A Max.	DC 24V 6.25A Max.
Power	Consumption	52W Max.	90W Max.	51W Max.	90W Max.
	Auto Calibration	Calibrating with the internal mount sensor(front)	Calibrating with the internal mount sensor(front)	Calibrating with the internal mount sensor(front)	Calibrating with the internal mount sensor(front)
	Calibration mode shift	N/A	N/A	N/A	N/A
	DICOM mode shift	N1/A	4-phased one-touch shift – DICOM		4-phased one-touch shift – DICOM
Features	DICOM mode shirt	N/A	BLUE/DICOM CLEAR/ 6500/ 9500	N/A	BLUE/DICOM CLEAR/ 6500/ 9500
reatures	Gamma mode shift	DICOM(LUT0)~LUT6	DICOM(LUT0)~LUT6	DICOM(LUT0)~LUT6	DICOM(LUT0)~LUT6
	OCD infa diantau	Operating time, Luminance Settings,	Operating time, Luminance Settings,	Operating time, Luminance Settings,	Operating time, Luminance Settings,
	OSD info display	Gamma, etc	Gamma, etc	Gamma, etc	Gamma, etc
	Touch Screen	N/A	N/A	N/A	N/A
	Stand	Tilt, Lift, Swivel, Pivot	Tilt, Lift, Swivel, Pivot	Ti l t, Lift, Swive l , Pivot	Tilt, Lift, Swivel, Pivot
	Cabinet Colors	Gray	Gray	Gray	Gray
Physical	Dimensions(WxHxD)	With stand: 390x510x240 (portrait) / Without stand: 366x473x95.6 (portrait)	With stand: 390x510x240 (portrait)/ Without stand: 390x490x97 (portrait)	With stand: 390x510x240 (portrait) / Without stand: 366x473x95.6 (portrait)	With stand: 390x510x240 (portrait)/ Without stand: 390x490x97 (portrait)
	Weight	With stand: 9 Kgs / Without stand: 6.5 Kgs	With stand : 9 Kgs / Without stand: 6.5 Kgs	With stand: 9 Kgs / Without stand: 6.5 Kgs	With stand: 9 Kgs / Without stand 6.5 Kgs
	Mount	100mm x 100mm VESA standard	100mm x 100mm VESA standard	100mm x 100mm VESA standard	100mm x 100mm VESA standard
Environment	Temperature		Operational 0~40'C	, Storage 0~40'C	1
Condition	Humidity		Operational 35~75%	6, Storage 35~75%	
C	Certification	MDD(KC, CE, FCC, VCCI, UL), FDA510(k)(in Progress)	MDD(KC, CE, FCC, VCCI,UL) FDA510(k)(in progress)	MDD(KC, CE, FCC, VCCI, UL), FDA510(k)(in progress)	MDD(KC, CE, FCC, VCCI,UL) FDA510(k)(in progress)
		AC adapter, Power cord, DVI cable,	AC adapter, Power cord, DVI cable,	AC adapter, Power cord, DVI cable,	AC adapter, Power cord, DVI cable,
A	Accessories	USB cable, Operation Manual,	USB cable, Operation Manual,	USB cable, Operation Manual,	USB cable, Operation Manual,
		Warranty Certificate, Screen Cleaner	Warranty Certificate, Screen Cleaner	Warranty Certificate, Screen Cleaner	Warranty Certificate, Screen Cleaner
	Warranty	5 years	5 years	5 years	5 years

 * The specifications are subject to change without notice

Clinical Review Displays

Diagnostic

CALION (D213-CA Series)

• 213 Series(21.3 inch)

	5 11.3° D213V5E- D213V9B- 12 14	CA D21 CA D21	21.3" MonoCirrone 3Q5E-CA 3Q9B-CA 14 Jun 5	3 2132 D213Q5-CA D213Q9-CA 12 14 5 5r	2:13" D213U5E-CA D213U8B-CA 12:24 5.5	2 2 2 2 D213U5-CA D213U8-CA 12 2 2 2 2 5 5
N	/lodel	D213V5E-CA D213V9B-CA	D213Q5E-CA D213Q9B-CA	D213Q5-CA D213Q9-CA	D213U5E-CA D213U8B-CA	D213U5-CA D213U8-CA
		21.3-inch TFT Monochrome IPS mode [CMI] 422.4(H)mm x 337.92(V)mm	21.3-inch TFT Monochrome IPS mode [NLT] 433.152(H)mm x 324.864(V)mm	21.3-inch TFT Color IPS mode [NLT] 433.152(H)mm x 324.864(V)mm	21.3-inch TFT Monochrome IPS mode [NLT] 432.0(H)mm x 324.0(V)mm	21.3-inch TFT Color IPS mode [NLT] 432.0(H)mm x 324.0(V)mm
LCD Panel	Pixel Pitch Contrast Ratio Luminance (Max)		0.2115(H)mm x 0.2115(V)mm 900 : 1 (Typ.) 1450 (cd/m ²)	0.2115(H)mm x 0.2115(V)mm 750 : 1 (Typ.) 800 (cd/m ⁱ)/ Default– 500 (cd/m ⁱ) or custom	0.270(H)mm x 0.270(V)mm 850 : 1 (Typ.) 1650 (cd/m ²)	0.270(H)mm x 0.270(V)mm 1050 : 1 (Typ.) 860 (cd/mi)// Default=500 (cd/mi) or custom
	Viewing Angle Response Time	170(H) / 170(V) 36ms (Tr +Tf) (Typ.)	176(H) / 176(V) 27ms (Tr +Tf) (Typ.)	176(H) / 176(V) 35ms (Tr +Tf) (Typ.)	170(H) / 170(V) 23ms (Tr +Tf) (Typ.)	176(H) / 176(V) 35ms (Tr +Tf) (Typ.)
Performance	ion Grayscale	2560(H) x 2048(V) pixels 14-bit LUT, 4096 shades of gray	2048(H) x 1536(V) pixels 14-bit LUT, 4096 shades of gray	2048(H) x 1536(V) pixels 14-bit LUT, 4096 shades of gray	1600(H) x 1200(V) pixels 14-bit LUT, 4096 shades of gray	1600(H) x 1200(V) pixels 14-bit LUT, 4096 shades of gray
	Input Terminals	12-bit LUT, 4096 shades of gray DVI, DP DP, HDMI, DVI, RGB	12-bit LUT, 4096 shades of gray DVI, DP DP, HDMI, DVI, RGB	12-bit LUT, 4096 shades of gray DVI, DP DP, HDMI, DVI, RGB	12-bit LUT, 4096 shades of gray DVI, DP HDMI, DVI, RGB, S-video, Video (BNC)	12-bit LUT, 4096 shades of gray DVI, DP HDMI, DVI, RGB, S-video, Video (BNC)
Signals	Output		N/A	N/A	N/A Video (BNC) x1	N/A Video (BNC) x 1
Power	USB Ports Input Consumption	USB2.0 upstream x1 / downstream x 2 DC 12V 12.5A Max.	USB2.0 upstream x1 / downstream x 2 DC 12V 12.5A Max.	USB2.0 upstream x1 / downstream x 2 DC 24V 6.25A Max. 90W Max.	USB2.0 upstream x1 / downstream x 2 DC 12V 12.5A Max.	USB2.0 upstream x 1 / downstream x 2 DC 24V 6.25A Max.
	Auto Calibration	N/A	52W Max. N/A	Calibrating with the internal mount sensor(front)	90W Max. Calibrating with the internal mount sensor(front)	90W Max. Calibrating with the internal mount sensor(front)
	Calibration mode shift DICOM mode shift	N/A N/A	N/A N/A	N/A N/A	N/A N/A 4-phased one-touch shift – DICOM	N/A N/A 4-phased one-touch shift – DICOM
Features	Gamma mode shift	DICOM	DICOM	DICOM	DICOM 2.2(defualt)/2.4/2.6/2.8/DICOM/CUSTOM/1.8/2.0	DICOM 2.2(defualt)/2.4/2.6/2.8/DICOM/CUSTOM/1.8/2.0
	OSD info display Touch Screen	Luminance Settings, etc	Luminance Settings, etc	Luminance Settings, etc	Operating time, Luminance Settings, Gamma, etc N/A	Operating time, Luminance Settings, Gamma, etc N/A
		Tilt, Lift, Swivel, Pivot	N/A Tilt, Lift, Swivel, Pivot Dark Blue	Tilt, Lift, Swivel, Pivot Dark Blue	Tilt, Lift, Swivel, Pivot Dark Blue	Tilt, Lift, Swivel, Pivot Dark Blue
Physical	Dimensions(WxHxD)	With stand: 390x510x240 (portrait) / Without stand: 390x470x100 (portrait)	With stand: 390x510x240 (portrait)/ Without stand: 365x485x88 (portrait)	With stand: 390x510x240 (portrait)/ Without stand: 365x485x88 (portrait) With stand: 9Kes (Without stand: 5.8Kes	With stand: 390x510x240 (portrait)/ Without stand: 365x485x88 (portrait)	With stand: 390x510x240 (portrait)/ Without stand: 365x485x88 (portrait)
Environment	Weight Mount Temperature	With stand: 9Kgs / Without stand: 6.8Kgs 100mm x 100mm VESA standard	With stand: 9Kgs / Without stand: 6.8Kgs 100mm x 100mm VESA standard Ope	With stand: 9Kgs / Without stand: 6.8Kgs 100mm x 100mm VESA standard erational 0~40'C, Storage 0~40'C	With stand: 9Kgs / Without stand: 6.8Kgs 100mm x 100mm VESA standard	With stand: 9Kgs / Without stand: 6.8Kgs 100mm x 100mm VESA standard
Condition	Humidity	MDD(KC, CE, FCC, VCCI, UL) MDD(KC, CE)		rational 35~75%, Storage 35~75% MDD(KC,CE,FCC,VCCI,UL) MDD(KC,CE)	NDD(KC, CE, FCC, VCCJ, UL) MDD(KC, CE)	MDD(KC, CE, FCC, VCCI, UL) MDD(KC, CE)
	ertification Accessories	In progress : FDA510(k) AC adapter, Power cord, DVI cable, USB cable, Operation Manual, Warranty Certificate, Screen Cleaner	In progress : FDA510(k) AC adapter, Power cord, DVI cable, USB cable, Operation Manual, Warranty Certificate, Screen Cleaner	In progress : FDA510(k) AC adapter, Power cord, DVI cable, USB cable, Operation Manual, Warranty Certificate, Screen Cleaner	In progress : FDA510(k) AC adapter, Power cord, DVI cable, USB cable, Operation Manual, Warranty Certificate, Screen Cleaner	In progress : FDA510(k) AC adapter, Power cord, DVI cable, USB cable, Operation Manual, Warranty Certificate, Screen Cleaner
	Warranty	5 years				

50 | 51 **KOSTEC**

CALION (D213-CA Series) (LED)

• 213 Series(21.3 inch)

		LED 3. 213° Moreotene D213Q5E-CA D213Q9B-CA 12. 14	LED 3. 7.6 D213Q5-CA D213Q9-CA 12. 14	LED 2.13" Monochrome D213U5E-CA 1699 (adwr) D213U8B-CA 1699 (adwr) 12.14 Im Sp. ED	
	Model	D213Q5E-CA D213Q9B-CA	D213Q5-CA D213Q9-CA	D213U5E-CA D213U8B-CA	D213U5-CA D213U8-CA
	Technology	21.3-inch TFT Monochrome IPS mode [NLT]	21.3-inch TFT Color IPS mode [NLT]	21.3-inch TFT Monochrome IPS mode [NLT]	21.3-inch TFT Color IPS mode [NLT]
	Display Area	433.152(H)mm x 324.864(V)mm	433.152(H)mm x 324.864(V)mm	432.0(H)mm x 324.0(V)mm	432.0(H)mm x 324.0(V)mm
	Pixel Pitch	0.2115(H)mm x 0.2115(V)mm	0.2115(H)mm x 0.2115(V)mm	0.270(H)mm x 0.270(V)mm	0.270(H)mm x 0.270(V)mm
	Contrast Ratio	1400: 1 (Typ.)	1400 : 1 (Typ.)	1400: 1 (Typ.)	1200 : 1 (Typ.)
LCD Panel	Luminance (Max)	1700 (cd/m²)	800 (cd/m²)/ Default– 500 (cd/m²) or custom	1900 (cd/m²)	760 (cd/m²)// Default– 500 (cd/m²) or custom
	Viewing Angle	176(H) / 176(V)	176(H) / 176(V)	170(H) / 170(V)	176(H) / 176(V)
	Response Time	27ms (Tr +Tf) (Typ.)	35ms (Tr +Tf) (Typ.)	23ms (Tr +Tf) (Typ.)	35ms (Tr +Tf) (Typ.)
	ion	2048(H) x 1536(V) pixels	2048(H) x 1536(V) pixels	1600(H) x 1200(V) pixels	1600(H) x 1200(V) pixe l s
Performance	Croweele	14-bit LUT, 4096 shades of gray	14-bit LUT, 4096 shades of gray	14-bit LUT, 4096 shades of gray	14-bit LUT, 4096 shades of gray
	Grayscale	12-bit LUT, 4096 shades of gray	12-bit LUT, 4096 shades of gray	12-bit LUT, 4096 shades of gray	12-bit LUT, 4096 shades of gray
	Innut Terminals	DVI, DP	DVI, DP	DVI, DP	DVI, DP
	Input Terminals	DP, HDMI, DVI, RGB	DP, HDMI, DVI, RGB	HDMI, DVI, RGB, S-video, Video (BNC)	HDMI, DVI, RGB, S-video, Video (BNC)
Signals	Output	N/A	N/A	N/A	N/A
	output	NA	N/A	Video (BNC) x1	Video (BNC) x1
	USB Ports	USB2.0 upstream x1 / downstream x 2	USB2.0 upstream x1 / downstream x 2	USB2.0 upstream x1 / downstream x 2	USB2.0 upstream x1 / downstream x 2
Power	Input	DC 12V 12.5A Max.	DC 24V 6.25A Max.	DC 12V 12.5A Max.	DC 24V 6.25A Max.
rowei	Consumption	52W Max.	90W Max.	90W Max.	90W Max.
	Auto Calibration	N/A	Calibrating with the internal mount sensor(front)	Calibrating with the internal mount sensor(front)	Calibrating with the internal mount sensor(front)
	Calibration mode shift	N/A	N/A	N/A	N/A
	DICOM mode shift	N/A	A1/A	N/A	N/A
	DICOM HIDde Shift	N/A	N/A	4-phased one-touch shift – DICOM	4-phased one-touch shift – DICOM
Features	Gamma mode shift	DICOM	DICOM	DICOM	DICOM
	Gamma mode simt	bicom	DICOM	2.2(defualt)/2.4/2.6/2.8/DICOM/CUSTOM/1.8/2.0	2.2(defualt)/2.4/2.6/2.8/DICOM/CUSTOM/1.8/2.0
	OSD info display	Luminance Settings, etc	Luminance Settings, etc	Operating time, Luminance Settings,	Operating time, Luminance Settings,
	osb into display	Luminarice Settings, etc	Lammarice Sectings, etc	Gamma, etc	Gamma, etc
	Touch Screen	N/A	N/A	N/A	N/A
	Stand	Tilt, Lift, Swivel, Pivot	Tilt, Lift, Swivel, Pivot	Tilt, Lift, Swivel, Pivot	Tilt, Lift, Swivel, Pivot
	Cabinet Colors	Dark Blue	Dark Blue	Dark Blue	Dark Blue
Physical	Dimensions(WxHxD)	With stand: 390x510x240 (portrait)/	With stand: 390x510x240 (portrait)/	With stand: 390x510x240 (portrait)/	With stand: 390x510x240 (portrait)/ Without stand: 365x485x88 (portrait)
,		Without stand: 365x485x88 (portrait)	Without stand: 365x485x88 (portrait)	Without stand: 365x485x88 (portrait) With stand: 9Kgs / Without stand: 6.8Kgs	With stand: 9Kgs / Without stand: 6.8Kgs
	Weight	With stand: 9Kgs / Without stand: 6.8Kgs 100mm x 100mm VESA standard	With stand: 9Kgs / Without stand: 6.8Kgs 100mm x 100mm VESA standard	100mm x 100mm VESA standard	100mm x 100mm VESA standard
Environment	Mount	Foomin X Foomin VES/ Standard	Operational 0~40'C		roomin x roomin res/rstandard
Condition	Temperature Humidity		1	6, Storage 35~75%	
	,	MDD(KC, CE, FCC, VCCI, UL) MDD(KC, CE)	MDD(KC, CE, FCC, VCCI, UL) MDD(KC, CE)	MDD(KC, CE, FCC, VCCI, UL) MDD(KC, CE)	MDD(KC, CE, FCC, VCCI, UL) MDD(KC, CE)
(Certification	In progress : FDA510(k)	In progress : FDA510(k)	In progress : FDA510(k)	In progress : FDA510(k)
		AC adapter, Power cord, DVI cable,	AC adapter, Power cord, DVI cable,	AC adapter, Power cord, DVI cable,	AC adapter, Power cord, DVI cable,
	Accessories	USB cable, Operation Manual,	USB cable, Operation Manual,	USB cable, Operation Manual,	USB cable, Operation Manual,
		Warranty Certificate, Screen Cleaner	Warranty Certificate, Screen Cleaner	Warranty Certificate, Screen Cleaner	Warranty Certificate, Screen Cleaner

5 years

5 years

5 years

Warranty

Special Utility Solutions for Modality Imaging

14-bit Digital Mammography & Modality Imaging Solutions

 * The specifications are subject to change without notice

5 years

Мос	dality					
X-Ra	у					
	•	201 Series(20.1 inch)	• 190 Series(19 inch)	(• 170 Series(17 inch)	• 150 Series(15 inch)
			രണിന്ദ്രഞ്ഞ]		
			Highware			
		20.1" D201U8 🔜 🗠	19" Mono D19054-HL	1 I ^{9"} D19084	17" Color 170EX 🌉	15" Color 150EX
N	/lodel	D201U8	D190S4-HL	D190S4	170EX	150EX
	Display Area Pixel Pitch	20.1-inch TFT Color IPS mode [Kostec tune] 408.0(H)mm x 306.0(V)mm 0.255(H)mm x 0.255(V)mm	19-inch TFT Monochrome IPS mode [CMI] 376.32(H)mm x 301.056(V)mm 0.294(H)mm x 0.294(V)mm	19-inch TFT Monochrome IPS mode [LG] 376.32(H)mm x 301.056(V)mm 0.294(H)mm x 0.294(V)mm	17-inch TFT Color TN mode [AUO] 337.92(H)mm x 270.336(V)mm 0.264(H)mm x 0.264(V)mm	15-inch TFT Color TN mode [AUO] 304.128(H)mm x 228.096(V)mm 0.297(H)mm x 0.297(V)mm
LCD Panel	Viewing Angle	700 (cd/m²) 178(H) / 178(V)	1000 : 1 (Typ.) 1300 (cd/m²) -85~85(H) / -85~85(V)	900 : 1 (Typ.) 1000 (cd/m²) 170(H) / 170(V)	1000 : 1 (Typ.) 380 (cd/m²) 170(H) / 170(V)	500 : 1 (Typ.) 550 (cd/m²) 140(H) / 125(V)
Performance	Response Time Resolution	14ms (Tr + Tf) (Typ.) 1600(H) x 1200(V) pixels	28ms (Tr+Tf) (Typ.) 1280(H) x 1024(V) pixels	25ms (Tr+Tf) (Typ.) 1280(H) x 1024(V) pixels	5ms (Tr +Tf) (Typ.) 1280(H) x 1024 (V)	8ms (Tr+Tf) T (Typ.) 1024(H) x 768(V) pixels
	Grayscale Input Terminals	12-bit LUT, 4096 shades of gray HDMI, DVI, RGB, S-video, Video (BNC)	12-bit LUT, 4096 shades of gray HDMI, Digital, DVI, Analog RGB, S-Video, CVBS (BNC)	12-bit LUT, 4096 shades of gray HDMI, Digital, DVI, Analog RGB, S-Video, CVBS (BNC)	12-bit LUT, 4096 shades of gray HDMI, DVI, RGB, S-video, Video (BNC)	12-bit LUT, 4096 shades of gray HDMI, DVI, RGB, S-video, Video (BNC Video (BNC) x 1
Signals	Output USB Ports	S-video x 1, Video (BNC) x 1 USB2.0 upstream x1 / downstream x 2	S-Video x 1, Video (BNC) x 1 USB2.0 upstream x 1 / downstream x 2	S-Video x 1, Video (BNC) x 1 USB2.0 upstream x 1 / downstream x 2	Video (BNC) x1 N/A	Video (BNC) x 1 N/A
Power			AC adapter 100V-240V 50/60Hz 43W Max.	DC 12V 7A Max. 43W Max.	DC 12V 7A Max. 38W Max.	DC 12V 7A Max. 45W Max.
	Auto Calibration		N/A	N/A	N/A	N/A
	Calibration mode shift	CR/CT/ES/US/TEXT	Calibration mode – CR/CT/US/TEXT	Calibration mode – CR/CT/US/TEXT	N/A	N/A
Features	DICOM mode shift	4-phased one-touch shift – DICOM BLUE/DICOM CLEAR/ 6500/ 9500	4-phased one-touch shift – DICOM BLUE/DICOM CLEAR/ 6500/ 9500	4-phased one-touch shift – DICOM BLUE/DICOM CLEAR/ 6500/ 9500	4-phased one-touch shift – DICOM BLUE/DICOM CLEAR/ 6500/ 9500	4-phased one-touch shift – DICOM BLUE/DICOM CLEAR/ 6500/ 9500
	Gamma mode shift	2.2(defualt)/2.4/2.6/2.8/DICOM/CUSTOM/1.8/2.0		2.2(defualt)/2.4/2.6/2.8/DICOM/CUSTOM/1.8/2.0	. ,	
	OSD info display Touch Screen	Operating time, Luminance Settings, Gamma, etc Optional	Operating time, Luminance Settings, Gamma, etc Optional	Operating time, Luminance Settings, Gamma, etc Optional	Operating time, Luminance Settings, Gamma, etc N/A	Operating time, Luminance Settings, Gamma, etc N/A
	Stand	Tilt, Lift, Swivel, Pivot	Tilt, Lift, Swivel, Pivot	Tilt, Lift, Swivel, Pivot	Tilt	Tilt
	Cabinet Colors	Dark Gray	Dark Gray	Dark Gray	Black	Black
Physical	Dimensions(WxHxD)	With stand: 449x367x220 (portrait) / Without stand: 449x347x80.5 (portrait)	With stand: 449x367x220 (portrait) / Without stand: 449x347x80.5 (portrait)	With stand: 449x367x220 (portrait) / Without stand: 449x347x80.5 (portrait)	TBD	TBD
	Weight	With stand: 7.5 Kgs / Without stand: 5.5 Kgs	With stand: 7.5 Kgs / Without stand: 5.5 Kgs	With stand: 7.5 Kgs / Without stand: 5.5 Kgs		With stand: 6.0 Kgs / Without stand: 4.0 Kgs
	Mount	100mm x 100mm VESA standard	100mm x 100mm VESA standard	100mm x 100mm VESA standard	100mm x 100mm VESA standard	100mm x 100mm VESA standard
Environment	Temperature			perational 0~40'C, Storage 0~40'		
Condition	Humidity			perational 35~75%, Storage 35~75		100/07
	Certification Accessories	MDD(KC, CE, FCC, VCCI,UL) FDA510(k)(in progress) AC adapter, Power cord, DVI cable, USB cable, Operation Manual,	MDD(KC, CE, FCC, VCCI, UL), FDA510(k)(in progress) AC adapter, Power cord, DVI cable, USB cable, Operation Manual, Warranty Certificate, Screen Cleaner	MDD(KC, CE, FCC, VCCI, UL), FDA510(k)(in progress) AC adapter, Power cord, DVI cable, USB cable, Operation Manual, Warranty Certificate, Screen Cleaner	AC adapter, Power cord, DVI cable, Operation Manual,Warranty Certificate,	
	Warranty	Warranty Certificate, Screen Cleaner 3 years	Warranty Certificate, Screen Cleaner 3 years	3 years	Screen Cleaner 3 years	Screen Cleaner 3 years

Clinical Review Displays

Surgical Displays

Medical Image Consulting System

Ultrasound Imaging Custom-Solution

Clini	cal Review			
X-Ray	,			
	٠	240 Series(24 inch) • 201 Serie	s(20.1 inch) • 190 Series(19 inc	n)
		~		
			2 20.1" R201U4	1
	Model	R240FE	R201U4	R190S4
	Technology	24-inch TFT Color IPS mode [LG]	20.1-inch TFT Color IPS mode [LG]	19-inch TFT Color IPS mode [LG]
	Display Area	518.4(H)mm x 324(V)mm	408.0(H)mm x 306.0(V)mm	376.32(H)mm x 301.06(V)mm
LCD Panel	Pixel Pitch	0.270(H)mm x 0.270(V)mm	0.255(H)mm x 0.255(V)mm	0.294(H)mm x 0.294(V)mm
	Contrast Ratio	1000 : 1 (Тур.)	800 : 1 (Typ.)	800 : 1 (Typ.)
	Luminance (Max)	400(cd/m ²)	300(cd/m ²)	270(cd/m²)
	Viewing Angle	178(H) / 178(V)	178(H) / 178(V)	178(H) / 178(V)
	Response Time	6ms (Gray to Gray)	8ms (Tr+Tf) (Typ.)	25ms (Gray to Gray Avg)
(Resolution	1920(H) x 1200(V) pixels	1600(H) x 1200(V) pixels	1280(H) x 1024(V) pixels
formance	Grayscale	12-bit LUT, 4096 shades of gray	12-bit LUT, 4096 shades of gray	12-bit LUT, 4096 shades of gray
	Input Terminals	HDMI, Digital DVIx2, RGB, S-Video, Video (BNC) x 1	HDMI, Digital, DVI, Analog RGB,S-Video, CVBS (BNC)	HDMI, Digital, DVI, Analog RGB, S-Video, CVBS (BNC)
Signals	Output	Video (BNC) x 1, S-Video, Digital DVI	S-Video x 1, Video (BNC)x1	S-Video x 1, Video (BNC) x 1
	USB Ports	USB2.0 upstream x 1 / downstream x 2	USB2.0 upstream x 1 / downstream x 2	USB2.0 upstream x 1 / downstream x 2
D	Input	DC 24V 6.25A Max.	DC 18V 5A Max.	DC 12V 7A Max.
Power	Consumption	98W Max.	70W Max.	42.6W Max.
	Auto Calibration	N/A	N/A	N/A
	Calibration mode shift	N/A	CR/CT/ES/US/TEXT	CR/CT/ES/US/TEXT
Features	DICOM mode shift	4-phased one-touch shift — DICOM BLUE/DICOM CLEAR/ 6500/ 9500	4-phased one-touch shift – DICOM BLUE/DICOM CLEAR/ 6500/ 9500	4-phased one-touch shift – DICOM BLUE/DICOM CLEAR/ 6500/ 9500
	Gamma mode shift	2.2(defualt)/2.4/2.6/2.8/DICOM/CUSTOM/1.8/2.0	2.2(defualt)/2.4/2.6/2.8/DICOM/CUSTOM/1.8/2.0	2.2(defualt)/2.4/2.6/2.8/DICOM/CUSTOM/1.8/2.0
	OSD info display	Operating time, Gamma, etc	Operating time, Luminance Settings,	Operating time, Luminance Settings, Gamma, etc
	Touch Screen	Optional (Multi Touch P-cap Type)	Gamma, etc Optional	Optional
	Stand	Tilt, Lift, Swivel, Pivot	Tilt, Lift, Swivel, Pivot	Tilt, Lift, Swivel, Pivot
	Cabinet Colors	Dark gray / Ivory	Dark gray / Ivory	Dark gray / Ivory
			With stand: 449x367x220 (portrait) /	With stand: 449x367x220 (portrait) /
Physical	Dimensions(WxHxD)	TBD	Without stand: 449x347x80.5 (portrait)	Without stand: 449x347x80.5 (portrait)
	Weight	With stand: 8 Kgs / Without stand: 6 Kgs	With stand: 7.5 Kgs / Without stand: 5.5 Kgs	With stand: 7.5 Kgs / Without stand: 5.5 Kgs
	Mount	100mm x 100mm VESA standard	100mm x 100mm VESA standard	100mm x 100mm VESA standard
/ironment	Temperature		Operational 0~40'C, Storage 0~40'C	
ondition	Humidity		Operational 35~75%, Storage 35~75%	
	Certification	MDD(KC, CE, FCC, VCCI, UL), CB, FDA510(k)(in progress)	MDD(KC, CE, FCC, VCCI,	UL) FDA510(k)(in progress)
	Accessories	AC adapter, Power cord, DVI cable, Operation Manual,Warranty Certificate, Screen Cleaner	AC adapter, Power cord, DVI cable, Operation Manual,Warranty Certificate, Screen Cleaner	AC adapter, Power cord, DVI cable, Operation Manual,Warranty Certificate, Screen Cleaner
			Serven eleuner	Screen cleaner

Endoa				
Endos	сору			
		240 Series(24 inch)	• 201 Series(20.1 inch)	190 Series(19 inch)
		Bree		
			20.1" E201U4 🔜	19" Color E190S4 🛄
	Model	E240FE	E201U4	E190S4
CD Panel	Technology Display Area Pixel Pitch Contrast Ratio	24-inch TFT Color IPS mode [LG] 518.4(H)mm x 324(V)mm 0.270(H)mm x 0.270(V)mm 1000 : 1 (Typ.)	20.1" Color IPS mode [LG] 408.0(H) x 306.0(V)mm 0.255(H) x 0.255(V)mm 800 : 1 (Typ.)	19" Color (PS mode [LG] 376.32(H) x 301.06(V)mm 0.294(H) x 0.294(V)mm 800 : 1 (Typ.)
	Luminance (Max) Viewing Angle Response Time Resolution	400(cd/m ²) 178(H) / 178(V) 6ms (Gray to Gray) 1920(H) x 1200(V) pixels	300(cd/m ⁻) 178(H) / 178(V) 8ms (Tr+Tf) (Typ.) 1600(H) x 1200(V) pixels	270(cd/m ²) 178(H) / 178(V) 25ms (Tr+Tf) (Typ.) 1280(H) x 1024(V) pixels
formance	Grayscale	12-bit LUT, 4096 shades of gray RS232C x 1 for Service port	12-bit LUT, 4096 shades of gray Ear Jack x 1 for Service port	12-bit LUT, 4096 shades of gray Ear Jack x 1 for Service port
	HDMI Input	HDMI Jack x 1 (typeA) for Digital RGB: TMDS Max: 1080p, 1920x1200/60Hz (WUXGA) DVI Jack x 2 (type D) for Digital RGB:	HDMI Jack x 1 (typeA) for Digital RGB: TMDS Max: 1080p, 1600x1200/60Hz (UXGA) DVI Jack x 1 (type D) for Digital RGB:	HDMI Jack x1 (typeA) for Digital RGB: TMDS Max: 1080p, 1600x1200/60Hz (UXGA) DVI Jack x1 (type D) for Digital RGB:
	RGB Input	TMDS Max: 1080p, 1920x1200 / 60Hz(WUXGA) D-sub Jack x 1 / BNC Jax x 1 for Analog RGB: 0.7[p-p](75Ω), H/CS/V:TTL(2.2kΩ), SGG:10[p-p](75Ω) Max:1920x1200 /60Hz(WUXGA)	TMDS Max: 1080p, 1600x1200 / 60Hz(UXGA) D-sub Jack x 1 / BNC Jax x 1for Analog RGB: 0.7[p-p](75Ω), H/CS/Y:TL(2.2kΩ), SOG: 11[p-p](75Ω) Max:1600x1200 /60Hz(UXGA)	TMDS Max: 1080p, 1600x1200 / 60Hz(UXGA) D-sub Jack x 1 / BNC Jax x 1for Analog RGB: 0.7[p-p](75:2), H/CS/V:TTL(2.2k:2), SOG: 1V[p-p](75:2) Max:1600x1200 /60Hz(UXGA)
Input Signals	HD - SDI Input	BNC Jack x 1 for Serial Input Common Mode: 2.2 V[p-p](75Ω) Max: 1920x1080/60Hz BNC Jack x 1 for Y:1V[p-p](75Ω), Pb/Cb:	BNC Jack x 1 for Serial Input Common Mode: 2.2 V[p-p](750) Max: 1920x1080/60Hz BNC Jack x 1 for Y:1V[p-p](750), Pb/Cb:	BNC Jack x 1 for Serial Input Common Mode: 2.2 V[p-p](75Ω) Max: 1920x1080/60Hz BNC Jack x 1 for Y:1V[p-p](75Ω), Pb/Cb:
	Component Input	0.7V[p-p](75Q), Pr/Cr: 7V[p-p](75Q), 480i, 576i, 480p, 576p, 720p, 1080p Mini DIN Jack x 1(4pin) for Y:1V[p-p](75Q),	0.7V[p-p](75Ω), Pr/Cr: 7V[p-p](75Ω), 480i, 576i, 480p, 576p, 720p, 1080i, 1080p Mini DIN Jack x 1(4pin) for Y:1V[p-p](75Ω),	0.7V[p-p](75\cr), PT(C; 7V[p-p](75\cr), 480i, 576i, 480p, 576p, 720p, 1080i, 1080p Mini DIN Jack x 1(4pin) for Y:1V[p-p](75\cr).
	S-video Input	C:0.286V[p-p](75:2)[NTSC] Y:1V[p-p](75:2), C:0.300V[p-p](75:2)[NL/SE] Y:1V[p-p](75:2), BNC Jack x 1 for 1V[p-p](75:2)	C:0.286V[p-p](75Ω)[NTSC] Y:1V[p-p](75Ω), C:0.300V[p-p](75Ω)[PL/SECAM] BNC Jack x 1 for 1V[p-p](75Ω)	C:0.286V[p-p](75Ω)[NTSC] 'Y1[p-p](75Ω), C:0.300V[p-p](75Ω)[PAL/SECAM] BNC Jack x 1 for 1V[p-p](75Ω)
	Video Input DVI Output	[NTSC/PAL/SECAM] DVI Jack x 1 (type D) for Digital RGB:	[NTSC/PAL/SECAM]	[NTSC/PAL/SECAM]
	RGB Output	TMDS Max: 1080p, 1920x1200 / 60Hz(WUXGA) Analog RGB: 0.7[p-p](75:\), H/CS/V:TTL(2.2k\Q), SOG:1V[p-p](75:\) Max: 1920x1200 / 60Hz(UXGA)	Analog RGB: 0.7[p-p](75Ω), H/C5/V:TTL(2.2kΩ), SOG:1V[p-p](75Ω) Max:1600x1200 /60Hz(UXGA)	Analog RGB: 0.7[p-p](75Ω), H/CS/V:TL(2.2kΩ), SOG:1V[p-p](75Ω) Max:1600x1200 /60Hz(UXGA)
Output Signals	HD- SDI Output	1920 Common Mode: 2.2 V[p-p](75Ω) Max: 1920x1080/60Hz	Serial Input Common Mode: 2.2 V[p-p](75Ω) Max: 1920x1080/60Hz	Serial Input Common Mode: 2.2 V[p-p](75Ω) Max: 1920x1080/60Hz
	Component Output	Y:1V[p-p](75Ω), Pb/Cb:0.7V[p-p](75Ω), Pr/Cr: 7V[p-p](75Ω), 480i, 576i, 480p, 576p, 720p, 1080i, 1080p	Y:1V[p-p](75Ω), Pb/Cb:0.7V[p-p](75Ω), Pr/Cr: 7V[p-p](75Ω), 480i, 576i, 480p, 576p, 720p, 1080i, 1080p	Y:1V[p-p](75Ω), Pb/Cb:0.7V[p-p](75Ω), Pr/Cr: 7V[p-p](75Ω), 480i, 576i, 480p, 576p, 720p, 1080i, 1080p
	S-video Output Video Output	Y:1V[p-p](75Ω), C:0.286V[p-p](75Ω)[NTSC] Y:1V[p-p](75Ω), C:0.300V[p-p](75Ω)[PAL/SECAM] 1V[p-p](75Ω) [NTSC/PAL/SECAM]	Y:1V[p-p](75Ω), C:0.286V[p-p](75Ω)[NTSC] Y:1V[p-p](75Ω), C:0.300V[p-p](75Ω)[PAL/SECAM] 1V[p-p](75Ω) [NTSC/PAL/SECAM]	Y:1V[p-p](75Ω), C:0.286V[p-p](75Ω)[NTSC] Y:1V[p-p](75Ω), C:0.300V[p-p](75Ω)[PAL/SECAM] 1V[p-p](75Ω) [NTSC/PAL/SECAM]
Power	Input Consumption Calibration mode	DC 24V 6.25A Max. 98W Max. N/A	DC 18V 5A Max. 70W Max. Calibration mode, Gamma shift	DC 12V 7A Max. 43W Max. Calibration mode, Gamma shift
eatures	OSD info display Touch Screen	Operating time,Gamma, etc Optional	Operating time, Luminance Settings, Gamma, etc Optional	Operating time, Luminance Settings, Gamma, etc Optional
hysical	USB Hub Stand Cabinet Color/Weight	USB2.0 upstream x1 / downstream x 2 Tilt, Lift, Swivel, Pivot White / With stand: 8 Kgs / Without stand: 6 Kgs	USB2.0 upstream x 1/downstream x 2 Tilt, Lift, Swivel, Pivot White / With stand: 7.5 Kgs / Without stand: 5.5 Kgs	USB2.0 upstream x 1 / downstream x 2 Titt, Lift, Swivel, Pivot White / With stand: 7.5 Kgs / Without stand: 5.5 Kgs
	Certification	100mm x 100mm VESA standard MDD(KC, CE, FCC, VCCI, UL), CB, FDA510(k)(in progress)	100mm x 100mm VESA standard MDD(KC, CE, FCC, VCCI, UL), FDA510(k)(in progress)	100mm x 100mm VESA standard MDD(KC, CE, FCC, VCCI, UL), FDA510(k)(in progress)

	• 420 Series(42 inch)	• 470 Series(47 inch)	• 550 Series(55 inch)
	2 Cor M420FE LED	The second secon	Stor MSSOFE E
Model	M420FE	M470FE	M550FE
Panel	42-inch TFT LCD Color Display [LG]	47-inch TFT LCD Color Display [LG]	55-inch TFT LCD Color Display [LG]
Display Mode	Transmissive mode Normally Black	Transmissive mode Normally Black	Transmissive mode Normally Black
Resolution	1920(H) x 1080(V)	1920(H) x 1080(V)	1920(H) x 1080(V)
Contrast Ratio	1300 : 1 (Typ.)	1300 : 1 (Typ.)	1300 : 1 (Typ.)
Active Area	930.24(H) x 523.26(V)	1039.68(H) x 584.82(V)	1209.6(H) x 680.4(V)
Pixel Pitch	0.4845(H) x 0.4845(V) [mm]	0.5414(H) x 0.5414(V) [mm]	0.630(H) x 0.630(V) [mm]
Luminance (cd/m ²)	450 (cd/m²) White Lumi @ LED	450 (cd/m²) White Lumi @ LED	450 (cd/m²) White Lumi @ LED
Response Time	9ms (Typ. Tr+Tf)	9ms (Typ. Tr+Tf)	9ms (Typ. Tr+Tf)
Viewing Angle	178° / 178° (H/V)	178° / 178° (H/V)	178° / 178° (H/V)
Aspect Ratio	16:9	16:9	16:9
Frequency	67.8 KHz (H) / 60 Hz (V)	67.8 KHz (H) / 60 Hz (V)	67.10KHz (H) / 60Hz (V)
Color Depth	1.06 Billion (10-bit)	1.06 Billion (10-bit)	1.06 Billion (10-bit)
Touch Screen(option)	Infrared rays detection mode Typical centroid accuracy 2mm	Infrared rays detection mode Typical centroid accuracy 2mm	Infrared rays detection mode Typical centroid accuracy 2mm
Input terminals	RS232C Jack x 1 for service port HDMI input x 1 DVI input x 2 HD - SDI input x 1 RGB input (D-sub x 1 / BNC x 1) Component Input (BNC x 1) S-video input (4-pin Mini DIN Jack x 1) Video input (BNC x 1)	RS232C Jack x 1 for service port HDMI input x 1 DVI input x 2 HD - SDI input x 1 RGB input (D-sub x 1 / BNC x 1) Component Input (BNC x 1) S-video input (4-pin Mini DIN Jack x 1) Video input (BNC x 1)	RS232C Jack x 1 for service port HDMI input x 1 DVI input x 2 HD - SDI input x 1 RGB input (D-sub x 1 / BNC x 1) Component Input (BNC x 1) S-video input (4-pin Mini DIN Jack x 1) Video input (BNC x 1)
Output terminals	DVI output x 1 HD - SDI output x 1 Video output (BNC x 1)	DVI output x 1 HD - SDI output x 1 Video output (BNC x 1)	DVI output x 1 HD - SDI output x 1 Video output (BNC x 1)
General	100V~240V AC, 50/60Hz Power Consumption: TBD Dimension (Without stand): TBD (mm) Weight (Without stand): TBD (Kgs)	100V~240V AC, 50/60Hz Power Consumption: TBD Dimension (Without stand): TBD (mm) Weight (Without stand): TBD (Kgs)	100V~240V AC, 50/60Hz Power Consumption: TBD Dimension (Without stand): TBD (mm) Weight (Without stand): TBD (Kgs)
vironmental Conidions	Temp.(operational/ storage): 5~35 °C Humidity (operational/ storage): 35~75%	Temp.(operational/ storage):5~35 °C Humidity (operational/ storage): 35~75%	Temp.(operational/ storage): $5 \sim 35~^\circ C$ Humidity (operational/ storage): $35 \sim 75\%$
Certification	CE	CE	CE

Medical Image Consulting System

Informatic

• 650 Series(65 inch)

• 720 Series(72 inch)

• 840 Series(84 inch)





🚑 🕬 M650FE 🔜



👪 🕬 Kalan 👪 🔛

Model	M650FE	M720FE	M840Z5
Panel	65-inch TFT LCD Color Display [AUO]	72-inch TFT LCD Color Display [LG]	84-inch TFT LCD Color Display [LG]
Display Mode	Transmissive mode Normally Black	Transmissive mode Normally Black	Transmissive mode Normally Black
Resolution	1920(H) x 1080(V)	1920(H) x 1080(V)	3840(H) x 2160(V)
Contrast Ratio	4000 : 1 (Typ.)	1100 : 1 (Тур.)	1600 : 1 (Тур.)
Active Area	1428.48(H) x 803.52(V)	1595.52(H) x 897.48(V)	1860.48(H) x 1046.52(V)
Pixel Pitch	0.807(H) x 0.807(V) [mm]	0.831(H) x 0.831(V) [mm]	0.4845(H) x 0.4845(V) [mm]
Luminance (cd/m ²)	700 (cd/m²) White Lumi @ CCFL	700(cd/ m^2) White Lumi @ LED	500 (cd/m²) White Lumi @ LED
Response Time	8 ms (Typ. Tr+Tf)	12 ms (Typ. Tr+Tf)	5 ms (Typ. Tr+Tf)
Viewing Angle	178° / 178° (H/V)	178° / 178° (H/V)	178° / 178° (H/V)
Aspect Ratio	16 : 9	16 : 9	16:9
Frequency	71.51KHz (H) / 63Hz (V)	71.51KHz (H) / 60Hz (V)	71.51KHz (H) / 60Hz (V)
Color Depth	1.07 Billion (10-bit)	16.7M (8-bit)	1.06 Billion (10-bit)
Touch Screen(option)	Infrared rays detection mode Typical centroid accuracy 2mm	Infrared rays detection mode Typical centroid accuracy 2mm	Infrared rays detection mode Typical centroid accuracy 2mm
Input terminals	RS232C Jack x 1 for service port HDMI input x 1 DVI input x 1 HD - SDI input x 1 RGB input (D-sub x 1 / BNC x 1) Component Input (BNC x 1) S-video input (4-pin Mini DIN Jack x 1) Video input (BNC x 1)	RS232C Jack x 1 for service port HDMI input x 1 DVI input x 1 HD - SDI input x 1 RGB input (D-sub x 1 / BNC x 1) Component Input (BNC x 1) S-video input (4-pin Mini DIN Jack x 1) Video input (BNC x 1)	DP x 2 DVI input x 2
Output terminals	DVI output x 1 HD - SDI output x 1 Video output (BNC x 1)	DVI output x 1 HD - SDI output x 1 Video output (BNC x 1)	N/A
General	100V~240V AC, 50/60Hz Power Consumption: TBD Dimension (Without stand): TBD (mm) Weight (Without stand): TBD (Kgs)	100V~240V AC, 50/60Hz Power Consumption: TBD Dimension (Without stand): TBD (mm) Weight (Without stand): TBD (Kgs)	100V~240V AC, 50/60Hz Power Consumption: TBD Dimension (Without stand): TBD (mm) Weight (Without stand): TBD (Kgs)
Environmental Conidions	Temp.(operational/ storage): 5~35 °C Humidity (operational/ storage): 35~75%	Temp.(operational/ storage): 5~35 °C Humidity (operational/ storage): 35~75%	Temp.(operational/ storage): 5~35 °C Humidity (operational/ storage): 35~75%
Certification	CE	CE	CE
PC (option)	optiona	al on buyer's requirement	

Clinical Review Displays

Informatic						
	•	420 Series(42inch)	• 470 Series(47inch)	• 550 Series(55inch)		
			c			
		2 42" M420F4 5000 1000 1000	2 47: Coor M470F4 🔜	2 55° M550F4 🏬 💷		
Мо	del	M420F4	M470F4	M550F4		
Display						
	Panel	42-inch TFT LCD Color Display [LG]	47-inch TFT LCD Color Display [LG]	55-inch TFT LCD Color Display [LG]		
	Aspect ratio	16:9	16:9	16:9		
	Resolution	1920(H) x 1080(V)	1920(H) x 1080(V)	1920(H) × 1080(V)		
	Pixel Pitch	0.4845(H) x 0.4845(V) [mm]	0.5414(H) x 0.5414(V) [mm]	0.630(H) x 0.830(V) [mm]		
	Displayable Colors	1.06 Billion (10-bit)	1.06 Billion (10-bit)	1.06 Billion (10-bit)		
	Brightness	450 (cd/m ²) White Lumi @ LED	450 (cd/m ²) White Lumi @ LED	450 (cd/m²) White Lumi @ LED		
	Contrast Ratio Display Mode	1300 :1 (Typ.) Transmissive mode Normally Black	1300 :1 (Typ.)	1300:1 (Typ.) Transmissive mode Normally Black		
	Response Time (Typical)	9ms (Typ. Tr+Tf)	Transmissive mode Normally Black 9ms (Typ. Tr+Tf)	9ms (Typ. Tr+Tf)		
	Viewing Angle(H/V)	178° / 178° (H/V)	178° / 178° (H/V)	178° / 178° (H/V)		
	Touch Screen	Optional	Optional	Optional		
n / Out Terminals						
	Speaker Output	External Speaker	External Speaker	External Speaker		
	Service	Ear Jack x 1	Ear Jack x 1	Ear Jack x 1		
	HDMI Input	HDMI Jack x (Type A) [For Built in PC]	HDMI Jack x (Type A) [For Built in PC]	HDMI Jack x (Type A) [For Built in PC]		
	DVI Input	DVI Jack x 1 (Type D)	DVI Jack x 1 (Type D)	DVI Jack x 1 (Type D)		
	RGB Input	D-Sub Jack x 1 BNC Jack x 1	D-Sub Jack x 1 BNC Jack x 1	D-Sub Jack x 1 BNC Jack x 1		
	RGB Output	BNC Jack x 1	BNC Jack x 1	BNC Jack x 1		
	HD - SDI Input	BNC Jack x 1	BNC Jack x 1	BNC Jack x 1		
	HD - SDI Output	BNC Jack x 1	BNC Jack x 1	BNC Jack x 1		
	Component Input	BNC Jack x 1	BNC Jack x 1	BNC Jack x 1		
	Component Output	BNC Jack x 1	BNC Jack x 1	BNC Jack x 1		
	S-Video Input	Mini DIN Jack x1 (4 pin)	Mini DIN Jack x1 (4 pin)	Mini DIN Jack x1 (4 pin)		
	S-Video Output	Mini DIN Jack x 1 (4 pin)	Mini DIN Jack x 1 (4 pin)	Mini DIN Jack x 1 (4 pin)		
	Video Input	BNC Jack x 1 BNC Jack x 1	BNC Jack x 1 BNC Jack x 1	BNC Jack x 1		
	Video Output	Ear Jack x 3 [For External Input]	Ear Jack x 3 [For External Input]	BNC Jack x 1 Ear Jack x 3 [For External Input]		
	Audio Input	Ear Jack x 1 [For Built - in PC]	Ear Jack x 1 [For Built - in PC]	Ear Jack x 5 [For External input] Ear Jack x 1 [For Built in PC]		
	Audio Output	Ear Jack x 1	Ear Jack x 1	Ear Jack x 1		
General						
Power S	Supply		AC 100V ~ 240V, 50/60Hz			
Power Consum	ption (Typica l)		TBD			
Dimensions (Without Stand)[W mm x H mm x D mm]		TBD				
Weight (With	hout Stand)		TBD			
nvironment Conditio	on					
Temperature Operational			5 ~ 35 °C			
remperature	Storage	5 ~ 35 °C				
Humidity	Operational		35 ~ 75 %			
ILT-IN PC (Optional)	Specifications		optional on buyer's requirement			
	Certifications	TBD				
Accessories	Standard	Owner's Instruction, Power Cord, Windows7(English)				
Accessories		Table Top Stand, Wall-Mount Bracket , Ceiling-Mount Bracket, HDMI Cable, DVI Cable, VGA D-SUB Cable, VGA BNC Cable, SDI BNC Cable, Component BNC Cable, S-Video Cable, Video BNC Cable, Audio Cable, Wireless Keyboard/Mouse, Speaker				

Medical Image Consu Informatic	Iting System			
• 650 Series(65 inch)	• 720 Series(72 in	ch) • 840) Series(84 inch)	
Remote Controller + + 2 Stor M655	OF4 Image: Sector S	M720F4	LED	
Model	M650F4	M720F4	M840Z5	
Display				
Pan	65-inch TFT LCD Color Display [AUO]	72-inch TFT LCD Color Display [LG]	84-inch TFT LCD Color Display [LG]	
Aspect rat		16:9	16:9	
Resolutio	n 1920(H) x 1080(V)	1920(H) x 1080(V)	3840(H) x 2810(V)	
Pixel Pitc	n 0.807(H) x 0.807(V) [mm]	0.802(H) x 0.802(V) [mm]	0.4845(H) x 0.4845(V) [mm]	
Displayable Colo		16.7M (8-bit)	1.06 Billion (10-bit)	
Brightne		700(cd/m ⁺) White Lumi @ LED	500(cd/m²) White Lumi @ LED	
Contrast Rati		1100 : 1 (Typ.)	1600 : 1 (Typ.)	
Display Moo Response Time (Typica		Transmissive mode Normally Black 12 ms (Typ. Tr+Tf)	Transmissive mode Normally Black	
Viewing Angle(H/V		178° / 178° (H/V)	5 ms (Typ. Tr+Tf) 178° / 178° (H/V)	
Touch Scree		Infrared rays Detection Typical centroid accuracy 2mm	Infrared rays Detection Typical centroid accuracy 2mm	
In / Out Terminals		3 11 3		
Speaker Output	t External Speaker	External Speaker	External Speaker	
Servic		Ear Jack x 1	External Speaker	
HDMI Inpu		HDMI Jack x (Type A) [For Built in PC]	DP Jack x 2	
DVI Inpi		DVI Jack x 1 (Type D)	DVI Jack x 2 (Type D)	
RGB Inpl	t D-Sub Jack x 1 BNC Jack x 1	D-Sub Jack x 1 BNC Jack x1		
RGB Output	t BNC Jack x 1	BNC Jack x 1		
HD - SDI Inpu	t BNC Jack x 1	BNC Jack x 1		
HD - SDI Outpo	t BNC Jack x 1	BNC Jack x 1		
Component Inpu		BNC Jack x 1		
Component Outpo		BNC Jack x 1		
S-Video Inpu	t Mini DIN Jack x 1 (4 pin)	Mini DIN Jack x 1 (4 pin)		
S-Video Outpi		Mini DIN Jack x 1 (4 pin)		
Video Inpi		BNC Jack x 1		
Video Outpu	For Jock v 2 (For External Input)	BNC Jack x 1 Ear Jack x 3 [For External Input]		
Audio Inpu	Ear Jack x 1 [For Built - in PC]	Ear Jack x 1 [For Built - in PC]	N/A	
Audio Outpo	t Ear Jack x 1	Ear Jack x 1	Ear Jack x 1	
General	1			
Power Supply	AC 100V ~ 240V, 50/60Hz			
Power Consumption (Typical)	TBD TBD			
Dimensions (Without Stand)[W mm x H mm x D mn Weight (Without Stand)	TBD			
Environment Condition Operation	si l	5 ~ 35 °C		
Temperature	5 ~ 35 °C			
Operation				
Humidity Storag	35~75%			
BUILT-IN PC (Optional) Specification		optional on buyer's requirement		
Certification	s CE, CB, CCC		TBD	
Accessories Standa	d Remote Controller, Owner's Instruction, Power Cord, Windows7(English)	Owner's Instruction, F	Power Cord, Windows7(English)	
Option		Table Top Stand, Wall-Mount Bracket, Ceiling-Mount Bracket, HDMI Cable, DVI Cable, VGA D-SUB Cable, VGA BNC Cable, SDI BNC Cable, Component BNC Cable, S-Video Cable, Video BNC Cable, Audio Cable, Wireless Keyboard/Mouse, Speaker		

COSTEC is committed to providing reliable custom service and technology for the global clients and partners, and will make devotional efforts for the growth of medical industry.





2-108, Medical Industry Technocenter 1720-26, Taejang-dong, Wonju-si, Gangwon-do, 220-962 Korea Tel: +82 33 747 9672 Fax: +82 33 747 9673 E-mail: kostec@n-kostec.co.kr www.n-kostec.co.kr