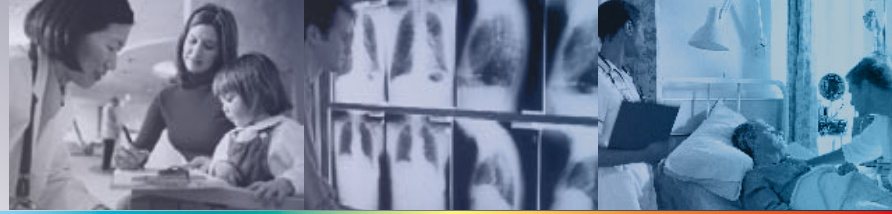


MMD-4300C

30", 4MP diagnostic color display



Single 4MP viewing mode & Dual 2MP viewing mode Available

4MP **30-bit**

- 30" color TFT LCD
- 4MP-2560(H) x 1600(V)
- Max. luminance: 370cd/m²
Max. calibrated luminance: 250cd/m²
- Built-in front sensor for conformance testing and auto-dimming function
- Selectable Gamma 1.8, 2.0, 2.2 and DICOM calibration
- Single 4MP and dual 2MP viewing setups
- Intelligent display mode auto adjustment with graphic card auto detection
- Ready for Deep color and HDMI™ 1.3 with GrayEasy® technology and 30-bit color dithering
- Intelligent color-to-gray conversion for grayscale applications
- IPXX / IPX2 compliance

100% Compatible With VESA DDC/CI Protocol

MMD-4300C is implemented with the VESA DDC/CI protocol and the standard VESA Monitor Control Command Set (MCCS), the universal communication interface, enabling remote control management through network. MMD-4300C allows easier two-way communications with the host PC through only DVI cable, instead of additional serial or USB cables. Through DDC/CI protocol, the software OSD manages the MMD-4300C remotely. PACSmate also provides software OSD customization services with command library and customer defined MSSC command programming.

Various software OSD functions:

- Power on/off
- Display mode selection: 4MP/2MP, color/monochrome
- Gamma and color temperature selection
- Luminance selection
- DICOM/ Gamma Look-Up-Table selection
- Monitor information

Multiple Viewing Modes & Color to Grayscale Technology

Single Viewing Mode

In single viewing mode, the MMD-4300C is displayed as a single 4MP monitor, either in color or in grayscale mode.

Single 4MP in color mode



Dual-link DVI-D
2560 x 1600

Single 4MP in grayscale mode



Dual-link DVI-D
2560 x 1600

Dual Viewing Mode

Through two DVI signal inputs, the MMD-4300C can be configured to display in a dual 2MP viewing mode. With color-to-grayscale conversion technology, the MMD-4300C can be viewed in multiple modes for side-by-side image comparison purpose. The independent Look-Up-Table for DICOM and Gamma calibration ensures the best display quality for diagnostic applications. The real-time adjustment of multiple display modes can be simply achieved through SmartOSD software utility.

Dual portrait 2MP color mode



Single/ Dual-link DVI-D 1280 x 1600 Single-link DVI-D 1280 x 1600

Dual portrait 2MP grayscale mode



Single/ Dual-link DVI-D 1280 x 1600 Single-link DVI-D 1280 x 1600

Dual portrait 2MP grayscale/color mode



Single/ Dual-link DVI-D 1280 x 1600 Single-link DVI-D 1280 x 1600

Dual portrait 2MP color/grayscale mode



Single/ Dual-link DVI-D 1280 x 1600 Single-link DVI-D 1280 x 1600

GrayEasy® 30-bit Deep Color

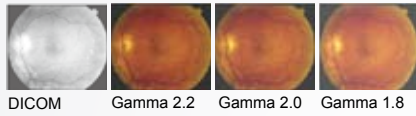
30-bit color image (10-bit for each RGB element) can be displayed on PACSmate monitors without any image loss. Through PACSmate's unique GrayEasy® technology, there's no need to replace the monitors for future HDMI 1.3 supported deep color display capabilities.

Customer Assurance

PACSmate series are applied to the following safety standards, including UL 60601-1, CE (EN 60601-1-2), FCC Part 18, TÜV GM, VCCI, BSMI and CCC.

User Selectable Gamma Settings and Color Temperature Settings

PACSmate provides you with flexible Gamma settings and color temperature settings for side-by-side image comparison in dual-viewing modes. The independent Gamma settings (for Gamma 1.8,2.0,2.2) and color temperature settings (6500K, 9300K) consist of multiple user-selectable settings, providing flexible display modes for images from different modalities.



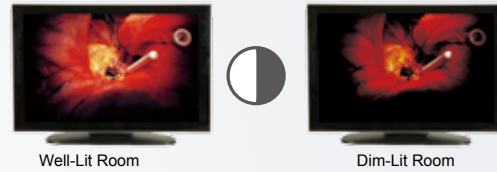
Color Temperature Settings

IPX2 Compliance

The whole enclosure of MMD-4300C is compliant with IPX2 waterproof standard. The MMD-4300C can be used in the operating room where it is humid and waterproof is considered important.

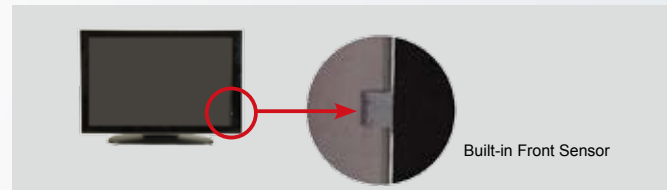
Auto-Dimming for Ambient Light Adjustment

The auto-dimming function helps create better diagnostic experience under proper light condition and extend backlight lifetime.

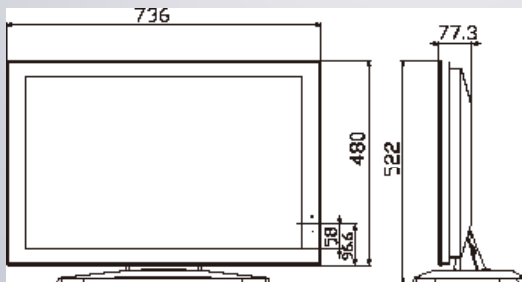


Built-in Front Sensor for DICOM Conformance Testing

PACSmate has designed a built-in, front-mounted sensor which continually adjusts the luminance output to ensure consistent images over time.



Dimensions



Packing List

PACSmate® Series medical LCD monitor
Monitor stand
Power Cord (US x 1, EU x 1)
Power Adapter
Dual-link DVI-D Signal Cable
USB Cable
Utility CD-ROM (for user's manual and software utility)

Ordering information

Part No.	Description
MMD-4300C 4MP	4 megapixel, 30" color LCD monitor with IPX2 housing
MMD-4300CX 4MP	4 megapixel, 30" color LCD monitor with IPXX housing

Specifications

PACSmate®	MMD-4300C
Drive System	a-Si TFT active matrix
Display area (H x V)	641.3mm x 400.8 mm
Diagonal size of display	75.6cm (30.0 inches)
Resolution (H x V)	2560 x 1600
Pixel pitch (H x V)	0.2505mm x 0.2505 mm
Sub-pixel pitch (H x V)	0.0835mm x 0.2505 mm
Pixel format	RGB (Red dot, Green dot, Blue dot) vertical stripe
Luminance-max.	370cd/m ²
Max. Luminance (calibrated)	250cd/m ²
Contrast ratio	1000:1 (typical)
Viewing angle	Right: 178°, Left: 178°, Up: 178°, Down: 178°
Response time (Ton + Toff)	12ms (typical)
Polarizer surface/ hardness	Antiglare/ 3H
Backlight	16 CCFL
Default gamma	Gamma 2.2
LUT	10-bit for each RGB
Signal input	Master: Dual link DVI-D (digital) Slave: Single link DVI-D (digital)
USB 2.0 hub	1 upstream/ 2 downstream
Membrane keypad	Yes
Power adapter Input voltage range	100VAC-240VAC
Power adapter Input frequency range	47Hz-63Hz
Power adapter Input AC current	2.0A max. at 90VAC
Power adapter Power output	24VDC, 6.25A, 150W (max)
Physical dimensions (H x W x D)	With stand: 522mmx 736mm x 266 mm (landscape) Without stand: 480mm x 736mm x 76 mm (landscape)
Weight	15kg
Operating temperature	10°C~35°C
Storage temperature	0°C~45°C
Operation relative humidity	30% ~75% Non-condensing
Storage/ Transportation Relative humidity	10% ~95% Non-condensing