

# TOTOKU

## ME Series

3mega pixel 20.8" Monochrome LCD

# ME315L

20.8"

Monochrome liquid crystal panel

Digital Input

2048 × 1536

High luminance 700cd/m<sup>2</sup>

Contrast 900:1

10-bit display

VESA mounting



Flat Display Systems  
for  
Medical Imaging



# 20.8

Medi*v*isor® 

## Flat Display Systems for Medical Imaging

TOTOKU's ME315L combines high resolution, contrast ratio and brightness in a new 3 megapixel monochrome LCD.

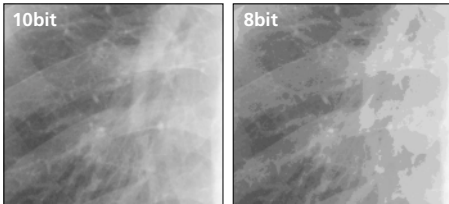


### 3mega pixel, high-resolution, monochrome LCD

A large (20.8") super high-resolution monochrome LCD panel provides fine images of 2048 x 1536 pixels. Clear images with high luminance and contrast (maximum luminance: 700 cd/m<sup>2</sup>, contrast: 900:1) are displayed.

### 10 bit displayable grayscale

Up to 1021 (10-bit) shades of gray are displayable from a palette of 1021 (10 bits) using a proprietary driving algorithm. This permits a more accurate image to be displayed for critical diagnostic work.



\*The images shown are for illustrative purposes.

### Gamma data is stored in the display

Gamma curve data is stored within the display during calibration. This enables smooth grayscale display that is independent of the graphics card. The display is compatible with DICOM Part 14 standard<sup>1</sup> and other gamma curves.

<sup>1</sup> DICOM Part14: Standards for grayscale standard display function on digital images and communications for medical purposes

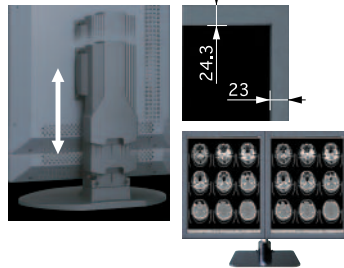
### Calibration kit (optional)

Included software (Medivisor Grayscale) and the calibration kit (luminance sensor and fittings) can correct luminance and gamma.



### Structure

- Sturdy base allows for height and tilting adjustment.
- VESA mounting points for arm or wall mount capabilities. (The attaching part meets the VESA standard<sup>2</sup>.)
- Optional AR protective filter "MF002" protects the liquid crystal panel from damage due to minor impact.
- Slim bezel for optimum viewing of multi-display installations.



<sup>2</sup> VESA: Abbreviation of Video Electronics Standards Association. The association determines standards concerning displays.

### Compliance with standards

- The display is certified to UL, CSA, and TÜV medical standards.



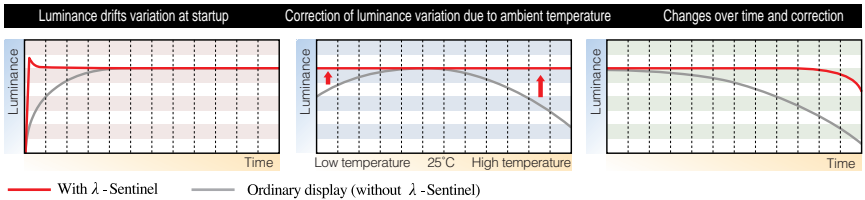
### Clear or blue base liquid crystal panel

Clear and blue base liquid crystal panels are available to emulate preferred film base.

### λ-Sentinel

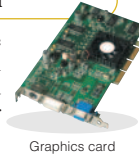
### Built-in luminance stabilizing circuit

The λ-Sentinel brings the backlight to the preset (calibrated) luminance within seconds and keeps it there with a multisensor, feedback control circuit, thereby maintaining calibration through backlight aging and temperature variations.



### Hardware pivot function

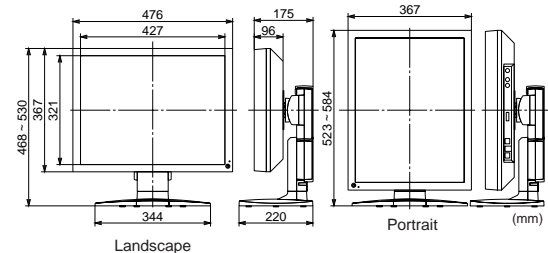
ME315L comes standard with a hardware pivot function. When used in conjunction with a TOTOKU graphics card, high speed operation is achieved in either landscape or portrait orientation.



### Color/monochrome conversion function

Because of the color/monochrome conversion function, clear monochrome images can be displayed on a system that handles color video signals. A multi-monitor is possible by using color displays.

Model name	ME315L
LCD panel	20.8" TFT monochrome LCD Viewing angle 170° (vertically and horizontally) Contrast 900:1
Screen display size	Horizontal: 423.9mm, vertical: 318.0mm (when used wide wise)
Input signal	Digital: In conformity with DVI Rev 1.0 Connector: DVI-D
Resolution	640 x 480(VGA), 2048 x 1536(QXGA)
Grayscale display	1021-step gradation to 256 gradation display When linked with Viewer, simultaneous display of 10bit(1021) grayscale is possible.
Maximum luminance (typical)	700 cd/m <sup>2</sup> (410 cd/m <sup>2</sup> when using calibration)
Safety standards	Medical Safety: UL2601-1, CSA C22.2 No.601.1, MDD/CE, TÜV/GM, FDA510(K) EMC: FCC-A, VCCI-A, BSMI, MIC
Dimensions (including the tilting base)	Landscape: 476(W) x 468-530(H) x 220(D)mm Portrait: 367(W) x 523-584(H) x 220(D)mm
Weight	Appr. 10.8 kg
Input power supply	AC100 - 240 V 50/60 Hz
Power consumption	80 W Typical (with power management feature)
Calibration control	Luminance, gamma (optional)
Tilting base	Tilting/swiveling base with a vertically/horizontally rotating feature
Other features	DDC2B, RS232C, USB hub
Accessories	AC adapter, power cord, operation manual, DVI cable, serial cable, CD-ROM (Medivisor Grayscale)



TOTOKU has obtained ISO14001 and ISO9001 certification which are international standards concerning environment management and quality control respectively.



### Safety precautions

To ensure safe use of the products, read the Operation Manual / Safety before using them.

Do not install the products in areas where they may be affected by water, dust, humidity, or oily smoke. Storing the products in such conditions could cause a fire, equipment failure or electrical shock.



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