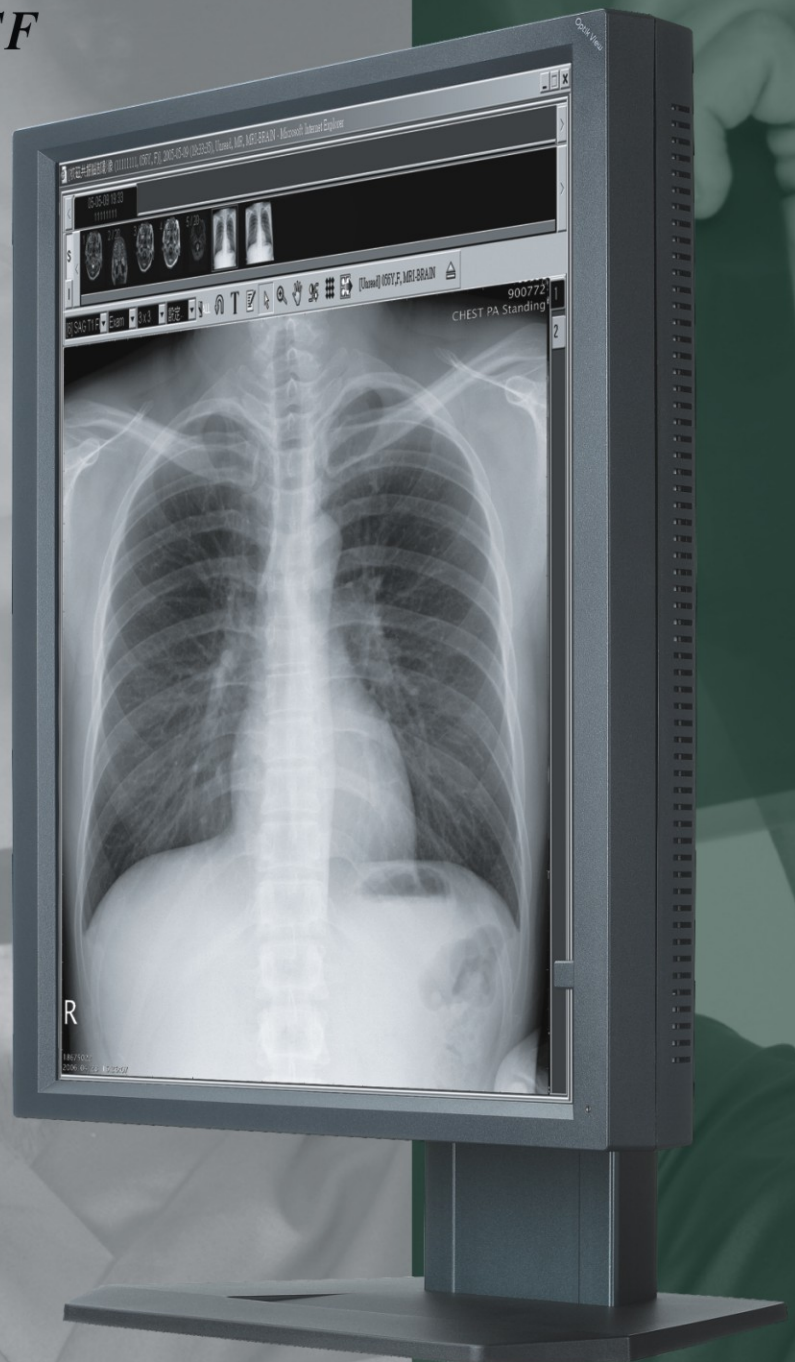


3MP Medical Monochrome Display

For X-ray

MDM2130-3NCF



21.3"

**11.5bit
LUT**

**2048
x
1536**

**High
luminance
500cd/m²**

**Contrast
700:1**

**Preset
Gamma
Setting**

3MP Medical Monochrome Display | MDM2130-3NCF

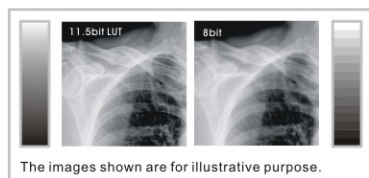


This monochrome LCD monitor is designed for accurate diagnosis in medical imaging applications.

This display renders 10-bit (1,024 steps) simultaneous grayscale display capability from a palette of 3,061 steps/shades for high-definition medical imaging. The applications include PACS, CR, CT, MRI and angiography.

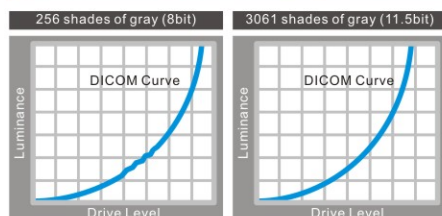
Built-in LUT (Look-up Table) to reproduce finest grayscale

Consumer/Commercial grade LCD displays are capable of displaying 256 shades of gray; however the precision of the image is marginal. These displays are built with a completely different concept / design that render their use and cost in-line with what the office/home environments require. OPTIK VIEW Medical Displays are designed for an entirely different application and the images that they display are in compliance with governing groups (such as DICOM, NEMA) that assure their accuracy. We do this by using custom LUT that allow OPTIK VIEW products to display DICOM compliant 8-10 bit images with precision grayscale accuracy



The images shown are for illustrative purpose.

DICOM GSDF compliant curves according to the number of simultaneously available gray shades.



* Images are provided for explanatory purposes only.

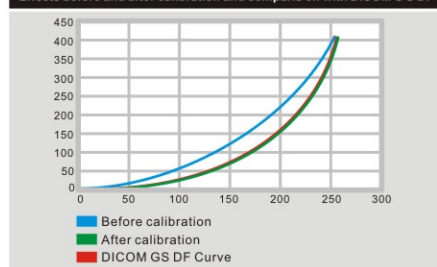
Calibration function to accurately adjust gamma, color temperature, and luminance

Medical image displays are commonly required to display grayscale according to the Grayscale Standard Display Function (GSDF) defined by DICOM Part 14. The calibration function creates the optimum conditions for a medical imaging display by adjusting luminance levels, color temperature (Color Monitors Only), and grayscale characteristics to achieve DICOM GSDF compliant grayscale output.

How it works

The luminance for each driving level is corrected such that the resulting curve matches the DICOM GSDF achieving smooth grayscale output. The adjusted driving levels are then stored in the monitors drive level LUT (Look-up Table) so displayed images are rendered according to the calibrated drive levels.

Effects before and after calibration and comparison with DICOM GSDF



Graph is for explanatory purpose only.

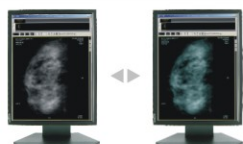
A Pairing Display Mode



We offer a display pairing service to optimize your viewing of multiple displays. This service can be provided before shipping.

Clear base/Blue base LCD panels

The LCD panels are available in both clear and blue base colors.



High Speed Graphic Performance

Robust 8 and 10 bit graphic board, designed for high image precision, can support dual DVI-I inputs up to 5-MP (dual head) diagnostic displays.



Photo Sensor achieved Stable and Consistent Image

- Attachable to monitor bezel with a USB connector.
- Calibration to DICOM Part14 standard.
- Remote calibration with network QC management software.



Ergonomic Design

The screen can be easily adjusted to the ideal viewing position with height adjustable stand, 15° tilt, 45° swivel, and support for both portrait and landscape modes.



| | |
|--------------------------------|---|
| LCD Type | IPS / 256 grayscale |
| Native Resolution | 2048*1536/1536*2048 |
| Pixel Pitch | 0.2115(H)*0.2115(V)mm |
| Active Screen Area | 433(H)*324(V)mm |
| Contrast | 700:1(typ) |
| Luminance(Typical) | 500 cd/m ² calibrated, 800cd/m ² max |
| Viewing Angle(H/V) | 85/85, 85/85, (Horizontal/Vertical) |
| LUT | 8-bit/10-bit/10-bit LUT |
| Backlight Lamp Life | 50K hours |
| Plug & Play | Support VESA DDC2B and DDC/CI; PC2001 compliant |
| Input Signal | DVI-I |
| Sync Input | Separate sync(HSYNC/VSING); composite sync, Sync on Green (activated through on-screen display) |
| USB 2.0 | USB hub with 1 up and 2 down stream port |
| ALS(Auto Luminance Stabilizer) | Yes |
| Power Supply | Auto-ranging, 90 to 265 VAC; internal power supply |
| Input Power | 100~240 VAC |
| | 50~60Hz |
| Operating Temperature | 0°C to 35°C(32°F to 95°F) |
| Mount | VESA 100 mm |
| Gamma Preset | Gamma 1.8, 2.0, 2.2; DICOM part 14 |
| Accessories | Graphic Card / PhotoSensor |

Worldwide medical safety standard approval

All display meets the strictest medical, safety and EMC emissions standards including EN60601-1, CE, CB, CSA C22.2 No.601-1, FCC, FDA510(K), AAPM-TG18.



ISO 13485 Certification

Our facilities are certified to ISO9001 and ISO13485 quality system controls. We have the ability to consistently meet our customer requirements for these devices and services.

