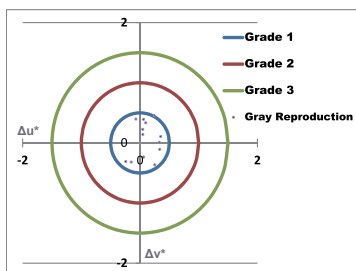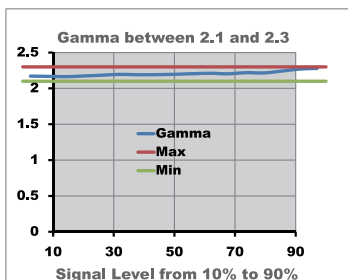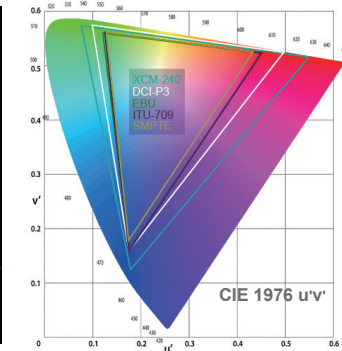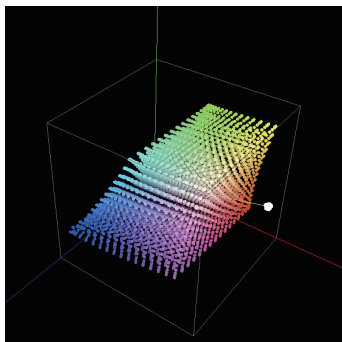# XCM-240 Prime Reference Monitor

The XCM-240 is designed to meet color critical evaluation in film, broadcast, post-production and graphic art applications. We use the highest quality IPS panel with true 10 bit precision for every pixel, The XCM-240 is further enhanced by employing precision RGB LED backlighting with color modulation control. 3D-LUTs can be user programmed or uploaded with 14 bit accuracy. As an image evaluation monitor, the XCM-240 features automatic color temperature compensation to match ambient changes, thus eliminating potential drift experienced with competitive models. The 12 bit image processing engine of the XCM-240 provides minimal delay and eliminates spatial resolution errors caused by interlaced images.

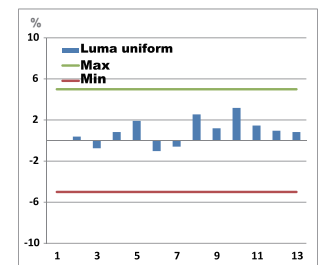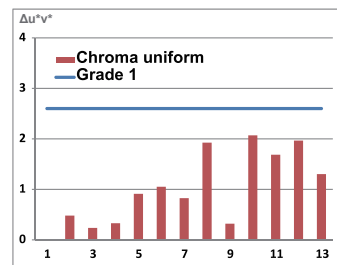## Technological innovation that moves the XCM-240 to the head of the pack

1.Precise Color, Gamma, Grayscale and Multiple Color Gamut

The XCM-240 utilizes combined technology of modulated RGB LED backlight, 10-bit color depth per pixel plus 12 bit image processing to meet and exceed grade-1 specifications for color gamut, color reproduction, and color temperature precisely replicating ITU-709, EBU and SMPTE color gamut plus emulation of DCI-P3.
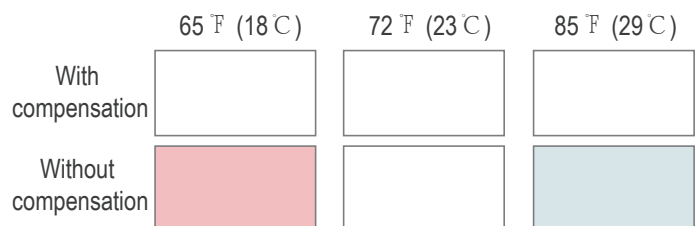
2.Uniform Correction

LCD panels have luminance variations across the screen up to 15%, which is larger than the Grade-1 requirement. By using our proprietary algorithm with multipoint uniform correction, XCM-240 has luminance variation measured at any location of the screen of less than +/-5% and chrominance variation less than $2.6\Delta U*V*$.

3.Color Temperature Compensation

As a normal occurrence in imaging devices, color temperature will change when ambient temperature changes. The XCM-240 has internal color and temperature sensors to monitor changes, and employs algorithms that compensate for color temperature drift during ambient temperature fluctuations.
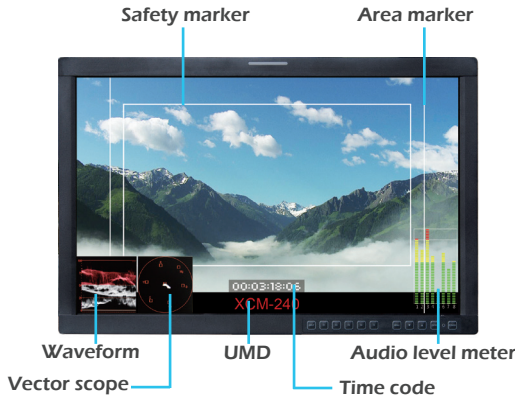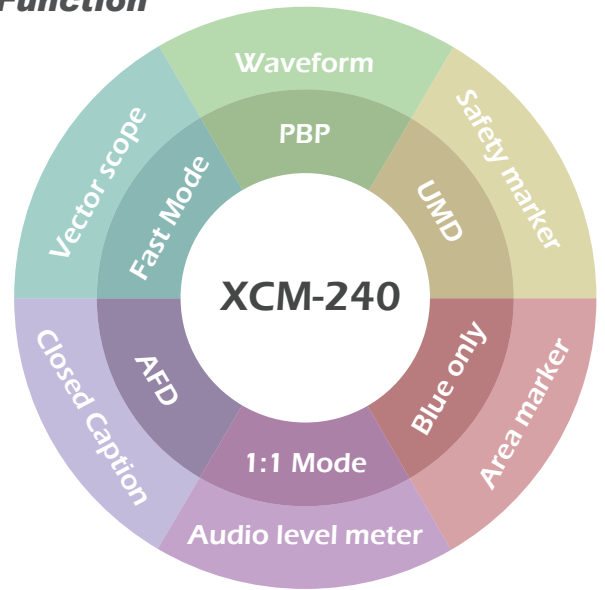
4.Remote Control

Like most products from OSEE, the XCM-240 includes Ethernet control via an internal processor that can be operated from any web browser with no additional software. The Ethernet connection can also be used for loading pre-programmed LUTs and performing interactive calibrations.

Function

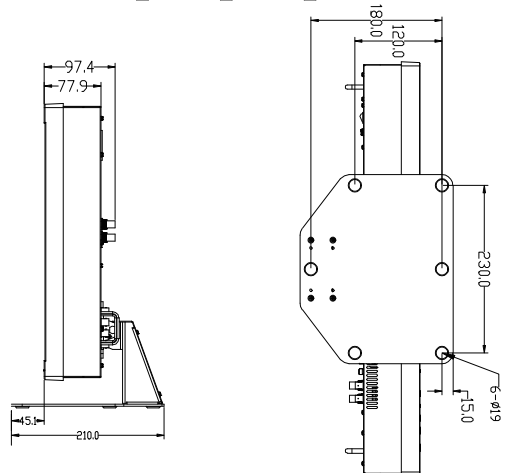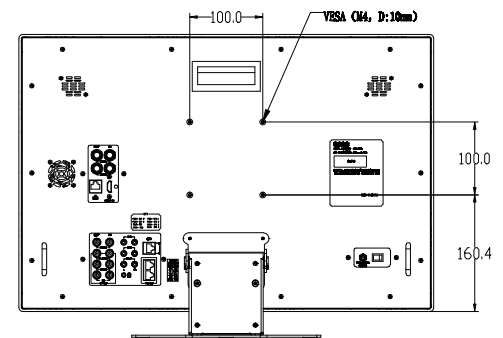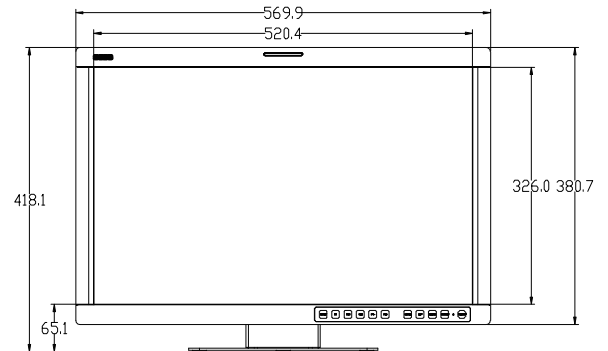## Status display

Safety marker | Area marker | Waveform | Vector scope | UMD | Audio level meter | Time code

Specifications

Warranty	2 year
Panel	
Size	24″
Resolution	1920×1200
Color Depth	True 10bits
Backlight	RGB LED
Viewing Angle	178°×178°
Brightness	250cd/m²
Contrast Ratio	1000:1
Input Terminals	
Video (Composite)	BNC (×1), 1Vp-p+/-3dB sync negative
3G/HD/SD-SDI	BNC（×2）,800mVp-p +/-10%
HDMI	HDMI Type-A, compatible with DVI-D
YPbPr (Component)	BNC (×3), can be configured as composite or Y/C
Audio	2 CH Analog stereo, 5dBu, Impedance ≥ 47K, RCA (×2)
Output Terminals	
Composite	BNC (×1), loop through, Automatic termination
3G/HD/SD-SDI	BNC (×2), 800mVp-p +/-10%,Active loop through
Component	BNC (×3), loop through, Automatic termination
Audio Monitor	1 CH Analog stereo, 5dBu, Impedance ≤ 500Ω, RCA (×1)
Earphone	Stereo mini jack (×1)
Speaker	1.0 W +1.0 W
External Control	
GPI	6 GPI Input, RJ45 (×1)
RS485	RS485, can be cascaded, RJ45 (×2)
Ethernet	10/100M Adaptive, RJ45 (×1)
General	
Power Supply	DC 19 V 4.74 A
Power Consumption	45W
Operating Temperature	0˚C to 35˚C (32°F to 95°F)
	Recommended: 20°C to 30°C (68°F to 86°F)
Operating Humidity	20% to 80% no condensation
Dimensions (W x H x D) (with stand)	569.9 x 418.1 x 210 mm
	22.43 x 16.46 x 8.26 inch
Dimensions (W x H x D) (without stand)	569.9 x380.7 x 97.4 mm
	22.43 x 14.98 x 3.83 inch
Weight (with stand)	10.8 kg (23.8lbs)
Weight (without stand)	9.5 kg (20.9lbs)

Specifications are subject to change without notice.