



**Flanders
Scientific
Inc.**

Monitor User Manual

Updated 7.14.2022

XM552U

XM652U

XM551U

XM651U

XM650U

This manual is based on firmware version 2.1.24

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OLED PANEL BURN-IN WARNING

This display has been designed primarily for SDR Mastering / Monitoring applications. HDR monitoring modes are provided as well and may be useful for short term client review of HDR material. However, this display is not suggested for HDR mastering or long term HDR monitoring as prolonged use of these modes can reduce the lifespan of the display as well as have a negative impact on overall display performance.

Display of static content, overlays, OSD menu or scopes, may cause permanent BURN-IN on the display's OLED panel.

Length of time required for burn-in to develop varies due to many factors including content and luminance level.

You should avoid displaying static content, especially in HDR mode for extended periods of time.

To lessen the potential severity of burn-in the display will start to dim if a static image is detected for 2 or more minutes. The display will return to normal operating luminance when the image is refreshed (*see Panel Dimming section of manual for details*). Panel dimming can be turned off, but additional caution should be exercised if panel dimming is disabled.

A Clear Panel Noise capability is provided that can help restore panel performance to some extent, but when possible care should be taken to avoid conditions that may cause burn-in .

Connecting and Disconnecting SDI BNC Cables

To prevent damage to components from electrical discharge follow these steps:

- Connect power first on all devices.
- Power on all devices.
- Connect BNC cables.

To disconnect:

- Disconnect BNC cables.
- Power down and disconnect power from devices.

If using a wireless video receiver we strongly suggest using an SDI Video Ground Path Isolator (available at ShopFSI.com and ShopFSI.eu) and powering the receiver from a separate power source than the monitor. Use of wireless video receivers can cause dangerous ground loop issues that can damage connected equipment like monitors. Using a ground loop isolator and powering from a separate power source will help keep downstream equipment protected.

Safety Precautions

- All operating instructions must be read and understood before the product is operated.
- These safety and operating instructions must be kept in a safe place for future reference.
- All warnings on the product and in the instructions must be observed closely.
- All operating instructions must be followed.
- Do not use attachments or accessories not recommended by the manufacturer. Use of inadequate attachments may result in serious accidents.
- Do not place heavy objects on the power cord. Route power cord to prevent people from stepping on or resting objects on the cord. Check to ensure that both outlet and product connection points are properly seated and secured.
- This product must be operated on a power source as specified on the specification label or product screening. Always operate the product within the voltage range specified.
- Do not overload AC outlets or extension cords. Overloading can cause fire or serious electric shock.
- Never insert an object into the product through vents or openings as this can cause serious electric shock or damage.
- Do not expose product to water or other liquids as this can lead to electrical shock or permanent damage.
- Do not attempt to service the product yourself. Removing covers can expose you to high voltage and other unsafe conditions. Please seek the assistance of a qualified service professional for all service needs.
- If any of the following occur, unplug the power cord from the AC outlet and consult a qualified service professional to perform repairs:
 - Power cord or plug becomes damaged.
 - When any liquid is spilled on or in the product.
 - When the product has been exposed to rain or water.
 - When the product does not operate properly as described in the instruction manual.
 - When the product has been dropped or damaged.
- Keep this product away from heat generating sources such as radiators, heaters, stoves, or other heat generating products.

- If the product requires replacement parts, make sure that the service person uses replacement parts specified by the manufacturer, or those equivalent parts having the same characteristics and performance specifications as the original parts. Use of unauthorized parts can result in fire, electric shock, and/or other damage.
- Upon completion of any service or repair work, request that the service technician perform safety checks to ensure that the product is in proper working order.
- When mounting the product to a wall, ceiling, or within a rack/enclosure, be sure to install the product according to the instructions of both the mount and monitor manufacturer.
- Unplug the power cord from the AC outlet before cleaning the product.
- For proper screen maintenance please follow the guidelines below to prevent scratches, discoloration, or other damage to the panel:
 - Avoid striking the screen with any object.
 - Do not wipe screen hard. Apply only gentle pressure if cleaning.
 - Do not wipe the screen with solvents such as alcohol, paint thinner, or benzene as this can cause permanent damage to the panel.
 - Do not spray detergent or other cleaners directly on the monitor or panel.
 - Do not write on the panel with any substance or object.
 - Do not paste or stick anything to the screen as any adhesive can cause damage to the panel.
 - Screen may be cleaned by gently wiping with lint free cloth to remove dust. For more thorough cleaning use a lint free cloth that has been very lightly dampened with distilled water. Please dry any excess moisture from the monitor or panel immediately to prevent damage.
- Take care in moving this product as serious injury or death can result from the sudden shifting or falling of this object.
- The vents and openings in the product's chassis are designed for ventilation. Do not cover, block, or otherwise obstruct these vents and openings as insufficient ventilation can cause overheating and/or shorten the life of the product. Do not place the object on a bed, sofa, rug, or other similar surface as this can result in serious obstruction of ventilation areas. If using in enclosed space make sure to provide proper ventilation to maintain allowable operating temperature range.
- The panel used in this product contains glass and can cause serious injury if broken. If the unit is dropped or otherwise damaged take care to avoid possible injury by glass shards.
- Avoid prolonged exposure to direct sunlight as this can cause damage to the panel For proper chassis maintenance please follow the guidelines below to avoid any potential damage:
 - Do not wipe the chassis with solvents such as alcohol, paint thinner, or benzene.
 - Do not expose the cabinet to any volatile substances.
 - Do not allow prolonged contact with rubber or plastic.
 - Apply only gentle pressure to chassis when cleaning.
 - To clean use soft, lint free cloth to remove dust. A lightly dampened cloth, as described in the screen maintenance section, may also be used to clean the chassis.

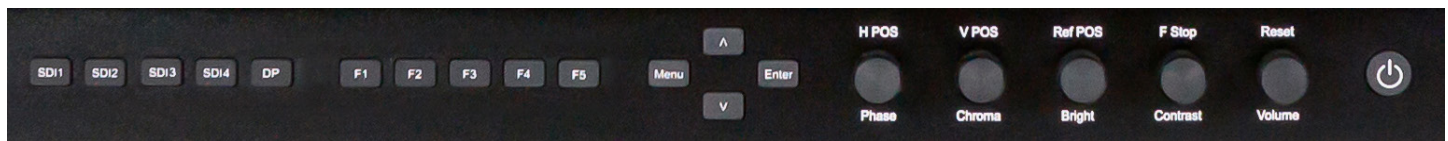
FCC (Federal Communications Commission)

This equipment has been tested and found to comply with the limits for a class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment.

This equipment generates, uses, and can radiate radio frequency energy, and if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications.

Warning: Changes or modifications not expressly approved by the manufacturer responsible for compliance void the user's authority to operate the equipment.

Keyboard



- **SDI 1:** Used to select SDI Input 1 as the active Input.
- **SDI 2:** Used to select SDI Input 2 as the active Input.
- **SDI 3:** Used to select SDI Input 3 as the active Input.
- **SDI 4:** Used to select SDI Input 4 as the active Input.
- **DP:** *Reserved for possible future use, currently inactive.*

- **F1:** Assignable function key. This key's function is selectable from the Function Menu.
- **F2:** Assignable function key. This key's function is selectable from the Function Menu.
- **F3:** Assignable function key. This key's function is selectable from the Function Menu.
- **F4:** Assignable function key. This key's function is selectable from the Function Menu.
- **F5:** Assignable function key. This key's function is selectable from the Function Menu.

- **MENU / LEFT:** Used to toggle and navigate On Screen Menu.
- **UP:** Used to navigate On Screen Menu.
- **DOWN:** Used to navigate On Screen Menu.
- **RIGHT / ENTER:** Used to navigate On Screen Menu and to confirm selections within the On Screen Menu.

- **PHASE / H POS:** Used to adjust hue higher or lower. Pressing down on the center of this button will return the hue setting to its default position.
- **CHROMA / V POS:** Used to adjust chroma higher or lower. Pressing down on the center of this button will return the chroma setting to its default position.
- **BRIGHT / Ref POS:** Used to adjust brightness higher or lower. Pressing down on the center of this button will return the brightness setting to its default position. The brightness knob should NOT be used increase the overall peak white luminance of the unit, use the Luminance setting to adjust overall luminance.
- **CONTRAST / F Stop:** Used to adjust contrast higher or lower. Pressing down on the center of this button will return the contrast setting to its default position.
- **VOLUME:** Used to adjust volume. Press down on this knob to instantly mute or unmute the volume.
- **POWER:** Used to turn power ON / OFF.

Back Panel



- **SDI In:** 4 Multi-Format 12G/6G/3G/HD-SDI Inputs.
- **SDI Out:** 4 Looped 12G/6G/3G/HD-SDI Outputs.
- **MON Out:** Processed output. Follows Mode Selection.
- **DP In:** Reserved for possible future use, currently inactive.
- **Audio In/Out:** Analog Stereo Mini-phono Audio Input & Output. Unbalanced, Audio Out delayed by exact amount of monitor video processing time to maintain sync.
- **USB Type A:** USB power, can be used to power MediaLight Bias Lights.
- **RS-485:** RS-485 Ports (In/Out) for looping remote control interface.
- **LAN:** IP Control via select programs.

Navigating the Menu

Pressing the MENU button on the monitor's keypad will call up the on screen menu. To navigate use the UP and DOWN buttons and press the ENTER button to select the highlighted sub menu. Navigate the sub menu in the same way by using the UP and DOWN buttons to highlight a particular function and press ENTER to change that function's settings. To exit the menu or back out of a sub menu press the MENU button.

Menus longer than the Main Menu may not fully display. These menus will scroll. Use the Up and Down keys to scroll up and down a menu.

Function Menu

Function	F1	Luminance Scope
Scope	F2	Vector Scope
Video	F3	Pixel Mapping
Color	F4	LUM Coloring
System	F5	Area Marker
OSD		Safety Marker
		Center Marker
		Load Profile 0
		Load Profile 1
		Load Profile 2
		Load Profile 3
		Load Profile 4
		Load Profile 5

The Function Menu allows you to assign user selectable functions to any of the 5 function buttons (F1, F2, F3, F4, and F5) on the monitor keypad. To assign a function to a function key, highlight one of the 5 functions and press ENTER. A list of assignable functions will appear. Select the desired function with the UP and DOWN buttons and press ENTER.

Area Marker

Use the Area Marker function to select what type of marker is displayed when the marker function is active. The marker selections available from this option include most commonly used markers and more complex user designed custom markers.

Safety Marker

Use the Safety Marker function to toggle the size, in percentage, of the safety marker displayed. This option can be used by itself or in conjunction with the Area Marker function.

Center Marker

Toggles whether the center marker (cross-hair) is displayed when the marker is activated.

Function Menu

Function	F1	Luminance Scope
Scope	F2	Vector Scope
Video	F3	Pixel Mapping
Color	F4	LUM Coloring
System	F5	Area Marker
OSD		Safety Marker
		Center Marker
		Load Profile 0
		Load Profile 1
		Load Profile 2
		Load Profile 3
		Load Profile 4
		Load Profile 5

Load Profile

Saved profile configurations can now be loaded via function button. This acts as a “load” button only as opposed to a toggle, so pressing a corresponding Function button twice does not revert to previous pre-load state.

Please note: to avoid circular logic problems, loading profile configurations does NOT change function button assignments. The function buttons are independent of the profile configurations.

Scope Menu

Function	Luminance	Off
Scope	Lum Position	Bottom Right
Video	Lum Style	IRE
Color	Vector	Off
System	Vec Position	Bottom Right
OSD	Lum Coloring	Off

Lum & Vec Position

Use Lum & Vec Position to select in what area of the screen you would like your Scopes to be displayed.

Lum Style

Select IRE or HDR (PQ) Waveform. Note: HDR Waveform currently only works with YCbCr formats.

Lum Coloring (Customizable Exposure Check)

Generates an artificial luminance map of the incoming source that can be particularly useful in identifying overexposed areas in any given shot. An onscreen scale helps indicate what artificial color corresponds to what luminance from 0 to 100 percent.

You can change the range of these color coded regions to any preferred setting by using the monitor's rotary knobs. The H POS rotary knob will adjust the lower limit of the lower color coded region. The V POS rotary knob will adjust the upper limit of the lower color coded region. The Ref POS rotary knob will adjust the lower limit of the upper color coded region. The F Stop Rotary knob will adjust the upper limit of the upper color coded region. These color coded ranges are retained in memory so you can exit and reenter Lum Coloring Mode without having to reset your desired threshold levels.

Note: Scopes only work in Normal LUT Mode. Scopes will not operate in Advanced LUT Mode.

Video Menu

Function	Input	SDI 1
Scope	Mode	AUTO
Video	SDI Format	AUTO
Color	Pixel Mapping	OFF
System	Deinterlace Mode	Mode 2
OSD		

SDI Format

Select the correct incoming signal format. SDI Format selection overrides payload ID if not set to AUTO.

Mode

The mode selection allows you to set the SDI input configuration as well as the processed monitor output configuration. Please note that the output configuration only impacts the outputs labeled MON, the standard OUT connections are always clean loop throughs of whatever is being received by the display. Note that when using a down-conversion configuration UHD will be down-converted to HD and 4K will be down-converted to 2K. All 2K and HD down-converted signals will be output to all 4 MON outputs so the down-conversion may be accessed from any of these connections.

Available MODE options

AUTO: attempts to automatically identify signal type, particularly useful if simply switching between single-link 1.5Gbps, 3Gbps, 6Gbps, and 12Gbps SDI signals formats.

6G_IN: single-link 6Gbps SDI input, single-link 6Gbps SDI output

6G_IN HD_OUT: single-link 6Gbps SDI input, 1.5Gbps HD output

6G_DL_IN: dual-link 6Gbps SDI input, dual-link 6Gbps SDI output

6G_DL_IN 3G_OUT: dual-link 6Gbps SDI input, single-link 3Gbps SDI Level A output

12G_IN: single-link 12Gbps SDI input

12G_IN 3G_OUT: single-link 12Gbps SDI input, single-link 3Gbps SDI Level A output

3G_DL-IN: dual-link 3Gbps SDI Level B input, dual-link 3Gbps SDI Level B output

3G_IN: single-link 3Gbps SDI input scaled full screen

HD_IN: single-link 1.5Gbps SDI input scaled full screen

3G_INx4: quad 3Gbps SDI input from inputs 1,2,3,4 to form UHD/4K signal on screen

HD_INx4: quad 1.5Gbps input from inputs 1,2,3,4 to form UHD/4K signal on screen

4K and UHD over 3G dual-link, 3G quad-link, and 1.5G quad-link should be formatted as Square Division (SQ). Two Sample Interleave (2SI) support is tentatively planned for a future release.

Deinterlace Mode

Mode1: Combines fields and displays as progressive scan image.

Mode2: Shows on screen as interlaced with correct field order.

Video Menu

Function	Input	SDI 1
Scope	Mode	AUTO
Video	SDI Format	AUTO
Color	Pixel Mapping	OFF
System	Deinterlace Mode	Mode 2
OSD		

Pixel Mapping

Pixel Mapping toggles between various available pixel mapping options including:

OFF

With Pixel Mapping set to OFF the incoming source is scaled to fill as much of the screen as possible while preserving aspect ratio. If the incoming source and panel share the same resolution then there will be no difference between OFF and the other pixel mapping modes.

Center

Maps the signal 1:1 with the center of incoming video in the middle of the screen.

Top Left

Maps the signal 1:1 with the top left incoming video in the top left of the screen.

Top Right

Maps the signal 1:1 with the top right of incoming video in the top right of the screen.

Bottom Left

Maps the signal 1:1 with the bottom left of incoming video in the bottom left of the screen.

Bottom Right

Maps the signal 1:1 with the bottom right of incoming video in the bottom right of the screen.

Note: Using pixel mapping with a 4K source on a native 3840x2160 screen will cause a portion of video to not be displayed, but these modes can be used to display 4K signals 1:1 and view the Left, Right, or Center of the video signal.

HD Signal

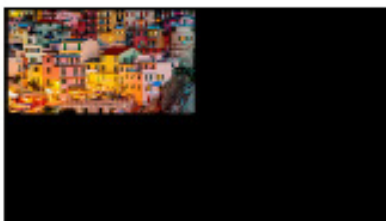
4K Signal



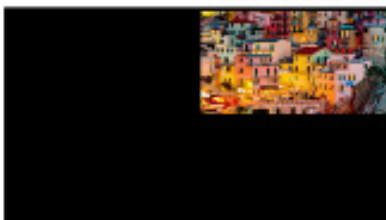
Off



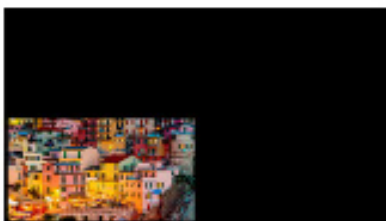
Center



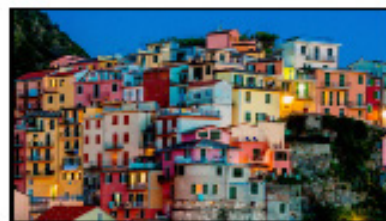
Top Left



Top Right



Bottom Left



Bottom Right



Color Menu

Function	ColorSystem	User
Scope	LUT Mode	Normal
Video	Range	SMPTE Full 4-1019
Color	Gamut	BT.709
System	Temperature	Default
OSD	EOTF	Gamma 2.4
	Luminance Mode	100
	Luminance Custom	45

ColorSystem

The monitor features 5 Color System selections: DEFAULT, GaiaColor, LightSpace, CalMAN, and NONE. On the XM652U, XM651U, XM650U, XM552U, and XM551U the factory calibrations are stored in the DEFAULT Color System. LightSpace and CalMAN Color System options are provided as additional memory place holders to store custom end-user calibrations using LightIllusion (LightSpace / ColourSpace) or CalMAN calibration software. The GaiaColor selection is reserved for future development and should not be used at this time on XM WOLED displays. Please leave the ColorSystem set to Default unless you have specifically saved your own user generated calibration LUTs to the LightSpace or CalMAN memory banks.

LUT Mode

Does not apply to GaiaColor Color System. In Default, LightSpace, or CalMAN modes select Normal or Advanced. Normal Mode enables both calibration and look LUT positions. Advanced Mode provides larger cLUT size support, but limits look LUT and ancillary feature support (e.g. scopes).

In Normal Mode 6 LUT positions are accessible at a time as follows:

Front DIT 1D LUT -> DIT 3D LUT -> Post DIT 1D LUT-> Front Calibration 1D LUT -> Calibration 3D LUT -> Post Calibration 1D LUT

In Normal Mode all 1D LUTs are 4096 entry point using 12bit values in the Flanders.lut format and all 3D LUTs are 17x17x17.cube format using only the header LUT_3D_SIZE 17.

The DIT LUT positions should be used for technical transforms or look LUTs, calibration LUTs should normally only be stored in the Calibration LUT positions.

In Advanced Mode 3 LUT positions are accessible at a time as follows:

Front Calibration 1D LUT -> Calibration 3D LUT -> Post Calibration 1D LUT

In Advanced Mode all 1D LUTs are 4096 entry point using 12bit values in the Flanders.lut format and the 3D LUT is 33x33x33.cube format using only the header LUT_3D_SIZE 33.

LUTs can be saved to the display using the IP Remote Utility.

Application Note: LUTs are applied within the range active on the monitor's color menu.

Color Menu

Function	ColorSystem	User
Scope	LUT Mode	Normal
Video	Range	SMPTE Full 4-1019
Color	Gamut	BT.709
System	Temperature	Default
OSD	EOTF	Gamma 2.4
	Luminance Mode	100
	Luminance Custom	45

Gamut

Select from available options to instantly change the active color space. This will enable both the 3D Calibration LUT and 1D Calibration LUT positions stored to the corresponding memory bank.

Luminance Custom

Allows for custom peak luminance selection in 5nit increments when Luminance Mode is set to CUSTOM. If Luminance Mode is not set to CUSTOM this menu item will simply reflect the Luminance Mode selected.

Luminance Mode

Select from CUSTOM or the 100, 200, 400, 800, or HDR quick access selections. When set to CUSTOM the Luminance menu item above Luminance Mode will allow you to specify your preferred custom peak luminance setting. For HDR use you must select the HDR luminance setting, which enable the panel's HDR boost mode.

Please note that when set to LUM 800, only the 3D Calibration LUT position will remain active, the 1D LUT will revert to Unity in this selection.

Range

Video Range 64-940
 Extended Video Range 64-1019
 SMPTE Full Range 4-1019
 Full Range 0-1023

Temperature - Only applies in GaiaColor mode / Reserved for Future Use.

EOTF - Only applies in GaiaColor mode/ Reserved for Future Use.

Color Menu

Function	ColorSystem	User
Scope	LUT Mode	Normal
Video	Range	SMPTE Full 4-1019
Color	Gamut	BT.709
System	Temperature	Default
OSD	EOTF	Gamma 2.4
	Luminance Mode	100
	Luminance Custom	45

Red / Green / Blue Gain and Bias settings

White balance may be adjusted / customized from one of the Temperature selection presets using the custom Red, Green, Blue Gain and Bias settings.

Factory Alignment Reset

This setting deletes the Factory AWB calibration. Do not use this setting unless you have the proper equipment to redo the factory AWB calibration.

Basic settings for the most commonly used configuration on the XM652U, XM552U, XM551U, XM650U, and XM651U are provided below:

For Rec709 2.4 SDR

Color System: Default
 LUT Mode: Normal
 Range: Video Range 64-940
 Gamut: BT.709
 Luminance Mode: 100

For P3-ST2084

Color System: Default
 LUT Mode: Normal
 Range: Video Range 0-1023
 Gamut: P3-ST2084
 Luminance Mode: HDR

Please note that in the DEFAULT Color System if factory LUTs have not been overridden the gamut option DCI P3 will target a DCI white balance of $x=0.314$, $y=0.351$ while the P3-ST2084 option will target a white balance of $x=0.3127$, $y=0.3290$.

System Menu

Function	Update Firmware	Allow	
Scope	Current IP	192.168.1.100	
Video	Version	2.1.20	
Color	Serial Number	XM310A0000	
System	Payload ID	0000	
OSD	Profile Load		
	Profile Save		
	Set Static IP	192.168.1.100	192.168.1.100
	IP Reset	DHCP	255.255.255.0
	Clear Panel Noise	Off	192.168.1.1
	Panel Dimming	On	Apply Settings

Update Firmware

When left to Allow (default) allows firmware to be remotely updated using the FSI IP Remote Utility. When set to Block prevents firmware from being remotely updated.

Current IP

Shows monitor's current IP address.

Version

Displays the current firmware version.

Serial Number

Displays the unit's serial number.

Profile Load

Load a saved configuration by selecting it from the list. Configurations 1 through 5 are user adjustable using the the Profile Save menu item. The Default Configuration returns settings to factory default of:

- Color System: Default
- LUT Mode: Normal
- Range: Video 64-940
- Gamut: BT.709
- Luminance: 100
- Gain/Bias Adjustments: 0 (neutral)

Profile Save

Select a configuration position to save all current monitor settings to that configuration slot.

System Menu

Function	Update Firmware	Allow	
Scope	Current IP	192.168.1.100	
Video	Version	2.1.20	
Color	Serial Number	XM310A0000	
System	Payload ID	0000	
OSD	Profile Load		
	Profile Save		
	Set Static IP	192.168.1.100	192.168.1.100
	IP Reset	DHCP	255.255.255.0
	Clear Panel Noise	Off	192.168.1.1
	Panel Dimming	On	Apply Settings

Set Static IP

Allows you to set a static IP address, subnet mask, and gateway address.

While setting an IP using the on-screen keyboard, use the monitor's Up, Down, Menu, and Enter keys to navigate the keyboard. You can also use the H Pos and V Pos rotary knobs. Pressing the H Pos or V Pos rotary knobs will make a selection of the highlighted on-screen key.

IP Reset

Re-enable DHCP after a static IP address has been used.

Clear Panel Noise

The Clear Panel Noise feature may help to alleviate various panel noise conditions, particularly severe burn-in conditions caused by displaying static, high contrast, content for extended periods of time.

Select On

Panel will display black and remain on for approximately 8 minutes.

After 8 minutes the monitor will automatically shut down.

After unit shuts down please leave the monitor turned Off for 1 hour.

After 1 hour press the power button to turn the monitor back on.

The display will remain black for 15 seconds after boot up, then a white line will appear on screen and slowly scan down the panel.*

Once the scan is complete the monitor will automatically be ready for use.

*this step may vary slightly depending on specific model in use

Panel Dimming

When panel dimming is set to On the panel will automatically begin to dim after 2 mins of static color and/or shape is detected to help protect the panel from image retention. Panel dimming can be set to Off to disable this behavior and this may be particularly useful during calibration routines, but care should be taken to avoid long term display of static images.

OSD Menu

Function	Time Code	Off
Scope	Status Position	Top Left
Video	Status Set	5s
Color	Menu Position	Top Left
System	Menu Set	5s
OSD	Area Marker	Off
	Safety Marker	Off
	Center Marker	Off

Time Code

Allows you to select whether to display Time Code on screen pulled from an SDI signal. *Reserved for future use, currently inactive.*

Menu & Status Position

Changes position of on-screen menu and signal status display.

Menu Set

Set menu to automatically disappear after 5s, 10s, or to stay On until manually cleared.

Status Set - Signal Status ID window

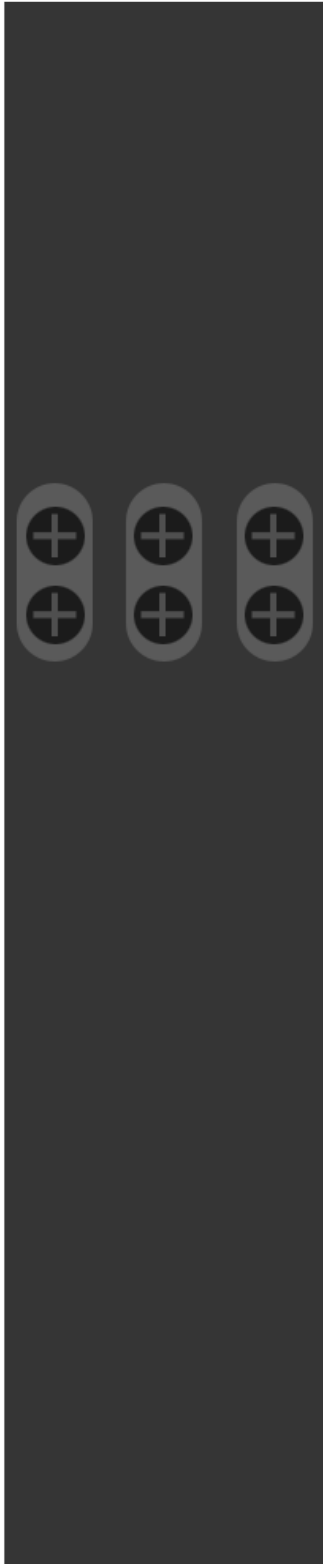
Select from On, Off, or 5 second display. When set to 5 second display the monitor will display signal status ID window for 5 seconds whenever an input button is pressed or signal format is changed.

The first line of the signal status ID window shows the user selected primary input and video mode (default is Auto).

The second line shows the primary input's detected bandwidth (e.g. 12G), resolution (e.g. 3840x2160), and scan type (e.g. PsF). Please note that if your video mode is set to something besides a single wire format (e.g. Quad Link SDI) this second line will only show the detected bandwidth and resolution of the primary (selected) input. A quad link SDI UHD signal will therefore only indicate the resolution of the primary quadrant (HD) whereas a single 12G-SDI UHD signal will show 3840x2160 resolution.

The third line indicates the frame rate, whether the signal is RGB or YCbCr, and the signal bit depth. Please note that this information is based on received VPID. If VPID is incorrect or missing you may manually override using the Video Menu's SDI format selection, but this line will continue to reflect signal type as indicated by VPID.

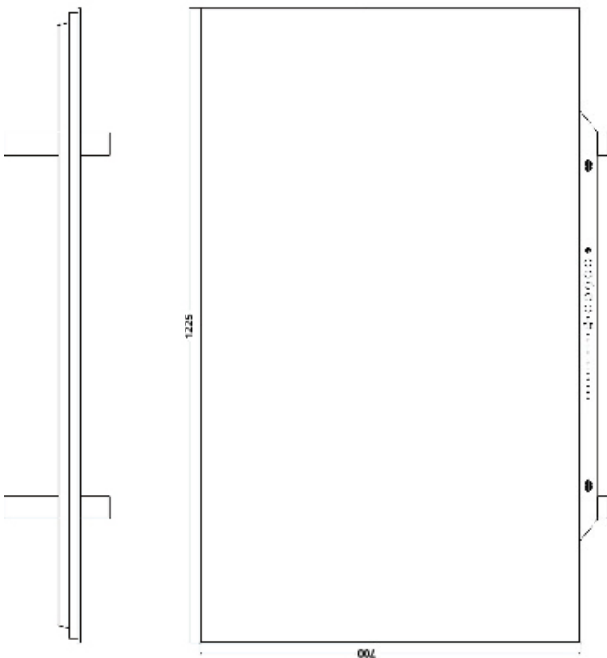
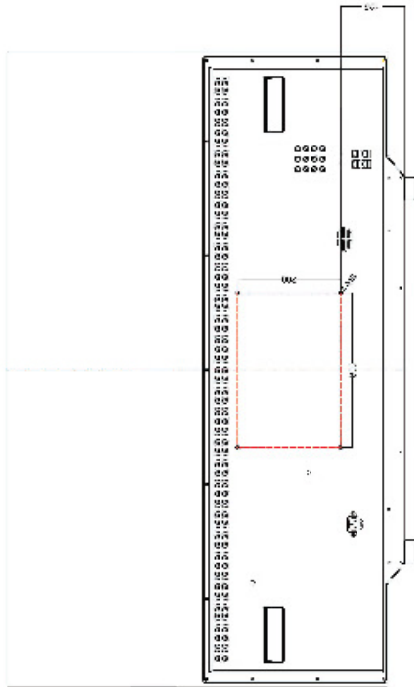




XM551U, XM650U, and XM651U have pedestal style feet that can be removed when wall mounting.

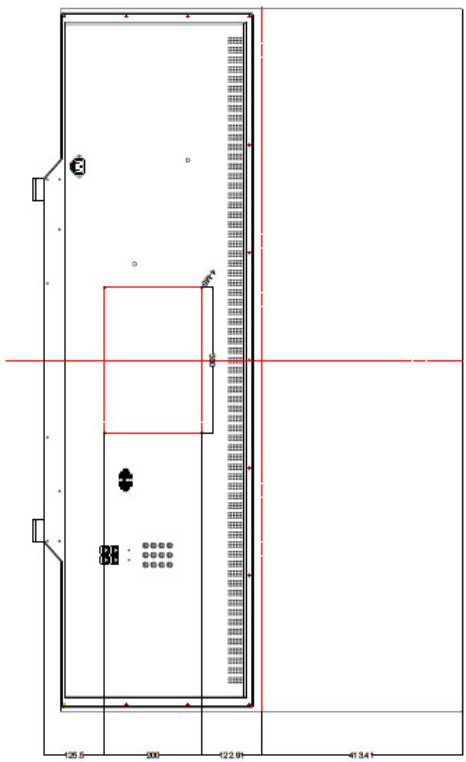
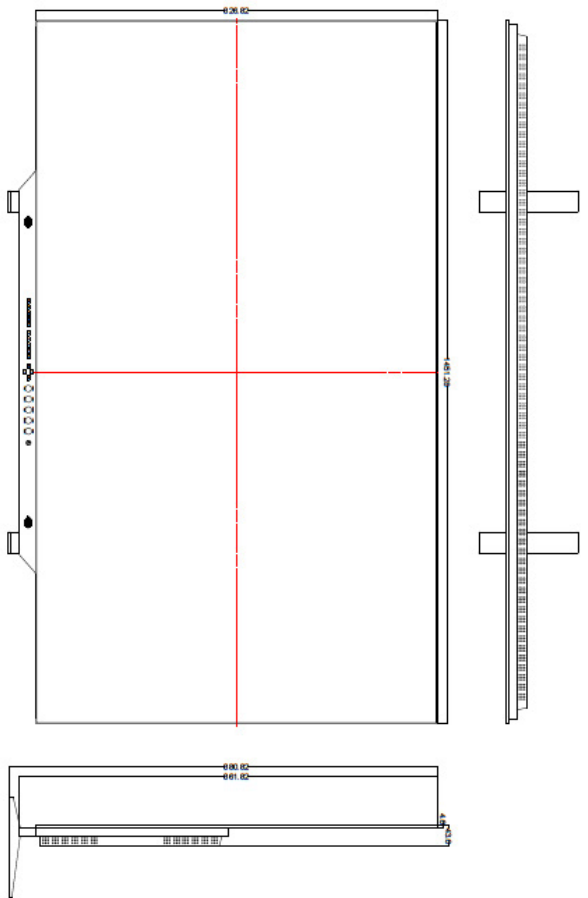
The feet are held on by six screws per foot on the bottom.

Large Dimensional Drawing PDF available online.
<http://www.flandersscientific.com/uploads/XM551Udim.pdf>



Dimensional Drawing - XM650U

Large Dimensional Drawing PDF available online.
<http://www.flandersscientific.com/uploads/XM650Udim.pdf>



Dimensional Drawing - XM651U

Large Dimensional Drawing PDF available online.
<http://www.flandersscientific.com/uploads/XM651Udim.pdf>

