

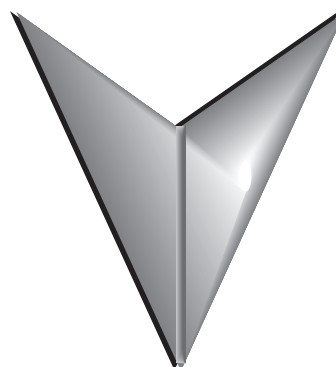


C-more Industrial Monitor User Manual

Manual Number: CTM-USER-M



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At a minimum, you should follow all applicable sections of the National Fire Code, National Electrical Code, and the codes of the National Electrical Manufacturer's Association (NEMA). There may be local regulatory or government offices that can also help determine which codes and standards are necessary for safe installation and operation.

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Como mínimo, debe seguir las secciones aplicables del Código Nacional de Incendio, Código Nacional Eléctrico, y los códigos de (NEMA) la Asociación Nacional de Fabricantes Eléctricos de USA. Puede haber oficinas de normas locales o del gobierno que pueden ayudar a determinar cuáles códigos y normas son necesarios para una instalación y operación segura.

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Afin de réduire au minimum le risque d'éventuels problèmes de sécurité, vous devez respecter tous les codes locaux et nationaux applicables régissant l'installation et le fonctionnement de votre équipement. Ces codes diffèrent d'une région à l'autre et, habituellement, évoluent au fil du temps. Il vous incombe de déterminer les codes à respecter et de vous assurer que l'équipement, l'installation et le fonctionnement sont conformes aux exigences de la version la plus récente de ces codes.

Vous devez, à tout le moins, respecter toutes les sections applicables du Code national de prévention des incendies, du Code national de l'électricité et des codes de la National Electrical Manufacturer's Association (NEMA). Des organismes de réglementation ou des services gouvernementaux locaux peuvent également vous aider à déterminer les codes ainsi que les normes à respecter pour assurer une installation et un fonctionnement sûrs.

L'omission de respecter la totalité des codes et des normes applicables peut entraîner des dommages à l'équipement ou causer de graves blessures au personnel. Nous ne garantissons pas que les produits décrits dans cette publication conviennent à votre application particulière et nous n'assumons aucune responsabilité à l'égard de la conception, de l'installation ou du fonctionnement de votre produit.

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Safety Conventions

Take note of the following conventions used throughout this manual to make sure that users perform certain tasks and instructions properly.



NOTE: Additional information, aids, and tips that help users perform tasks.



CAUTION: Information to prevent minor physical injury, component damage, data loss, and/or program corruption when trying to complete a task.

WARNING: Information to prevent serious physical injury, component damage, data loss, and/or program corruption when trying to complete a specific task.

Environmental Responsibility

When products are at their end of life, our customers are encouraged to dispose of them in accordance with the product disposal and/or recovery programs prescribed by their nation or company.



Safety Instructions

- Read and follow all instructions marked on the product and in the documentation before you operate your system.
- Retain all safety and operating instructions for future use.
- Please read these safety instructions carefully.
- Please keep this user's manual for future reference.
- Refer to the specifications section of this manual for detailed information on the operating environment of this equipment.
- Prior to installing/mounting or uninstalling/removing equipment, turn off the power and unplug any power cords/cables. Please observe the mounting instructions provided in this manual.
- If the device is still hot from previous use, allow the device to cool down prior to performing any mounting/unmounting operations.
- To avoid electrical shock and/or damage to equipment:



CAUTION: Use only a certified power supply with SELV output or double insulation, and evaluated by UL 61010-2-201 or UL 62368-1 standards.

This product is intended for use with a UL/IEC certified power supply or DC source suitable for use at a minimum of 50/60/70 °C, and whose output meets SELV with LPS (or LE) or Class 2, rated for 12 VDC min. 2.65A. For further assistance, contact us.

- Keep equipment away from water or liquid sources.
- Keep equipment away from high heat or high humidity.
- Keep equipment properly ventilated (do not block or cover ventilation openings).

- Make sure to use recommended voltage and power source settings.
- Always install and operate equipment near an easily accessible electrical socket-outlet.
- Make sure to connect the power adapter to an electrical outlet with a grounded connection.
- Secure the power cord (do not place any object on/over the power cord).
- Only install/attach and operate equipment on stable surfaces and/or recommended mountings.
- If the equipment will not be used for long periods of time, turn off and unplug the equipment from its power source.
- Never attempt to fix the equipment. Equipment should only be serviced by qualified personnel.
- Failure to comply with the instructions above could result in physical injuries and/or property damage.
- Clean the label with a dry or slightly water-moistened soft cloth.

Conventions de Sécurité

Veuillez prendre note des conventions suivantes utilisées dans ce manuel pour vous assurer que les utilisateurs exécutent correctement certaines tâches et instructions.

AVERTISSEMENT: Informations destinées à prévenir les blessures corporelles graves, les dommages aux composants, la perte de données et/ou la corruption de programme lors de l'exécution d'une tâche spécifique.



PRUDENCE: Informations destinées à prévenir les blessures corporelles mineures, les dommages aux composants, la perte de données et/ou la corruption de programme lors de l'exécution d'une tâche.

Responsabilité Environnementale

Lorsque les produits arrivent en fin de vie, nos clients sont encouragés à les éliminer conformément aux programmes d'élimination et/ou de valorisation des produits prescrits par leur pays ou leur entreprise.



Instructions de Sécurité

- Lisez et suivez toutes les instructions indiquées sur le produit et dans la documentation avant d'utiliser votre système. Conservez toutes les instructions de sécurité et d'utilisation pour une utilisation future.
- Veuillez lire attentivement ces instructions de sécurité.
- Veuillez conserver ce manuel d'utilisation pour référence ultérieure.
- Lisez la section Spécifications de ce manuel pour obtenir des informations détaillées sur l'environnement de fonctionnement de cet équipement.
- Avant d'installer/monter ou de désinstaller/retirer l'équipement, coupez l'alimentation et débranchez tous les cordons/câbles d'alimentation. Veuillez suivre les instructions de montage fournies dans ce manuel.
- Si l'appareil est encore chaud suite à une utilisation précédente, laissez-le refroidir avant d'effectuer toute opération de montage/démontage.
- Pour éviter les chocs électriques et/ou les dommages à l'équipement :



PRUDENCE: Utilisez uniquement une alimentation certifiée avec Sortie SELV ou double isolation et évaluée selon les normes UL 61010-2-201 ou UL 62368-1.

Ce produit est destiné à être alimenté par une alimentation certifiée UL/IEC ou une source CC adaptée à une utilisation à une température de fonctionnement minimale de 50/60/70 °C et dont la sortie est conforme à la norme SELV avec LPS (ou LE) ou Classe 2, évaluée à 12 VDC min. 2,65 A. Pour obtenir de l'aide, contactez nous.

- Gardez l'équipement loin des sources d'eau ou de liquides.
- Gardez l'équipement loin de la chaleur ou de l'humidité élevée.
- Maintenir l'équipement correctement ventilé (ne pas bloquer ni couvrir les ouvertures de ventilation).
- Assurez-vous d'utiliser les paramètres de tension et de source d'alimentation recommandés.
- Toujours installer et faire fonctionner l'équipement à proximité d'une prise électrique facilement accessible.

- Fixez le cordon d'alimentation (ne placez aucun objet sur/sur le cordon d'alimentation).
- Installez/fixez et utilisez l'équipement uniquement sur des surfaces stables et/ou des supports recommandés.
- Si l'équipement n'est pas utilisé pendant de longues périodes, éteignez et débranchez l'équipement de sa source d'alimentation.
- N'essayez jamais de réparer l'équipement. L'équipement ne doit être réparé que par du personnel qualifié.
- Le non-respect des instructions ci-dessus pourrait entraîner des blessures physiques et/ou des dommages matériels.
- Nettoyez l'étiquette avec un chiffon doux sec ou légèrement humidifié avec de l'eau.



Industrial Flat Panel PC Monitor

User Guide



Please include the User Guide Number and the Users Guide Issue, both shown below, when communicating with Technical Support regarding this publication.

Guide Number: CTM-USER-M

Issue: 1st Edition

Issue Date: 10/2025

Publication History		
Issue	Date	Description of Changes
1st Edition	10/2025	Original issue

Publication History		
Issue	Date	Description of Changes
1st Edition	10/2025	Original issue

Introduction



Chapter 1

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Introduction

C-more Touch Panel Monitors are color TFT LDC flat panel touchscreen monitors designed for industrial applications meeting UL61010 requirements with an IP65 rating. Each monitor accepts standard analog VGA and HDMI video inputs and supports up to 1920 x 1080 resolution and a 16:9 wide aspect ratio. The touchscreen is a 7H hardness, 10-point, PCAP touchscreen with an anti-fingerprint coating. Each ships with a barrel to terminal adapter allowing for power to be supplied by a standard 12VDC brick-style power supply or an industrial power supply. Monitors can be panel mounted (clips sold separately) or with standard VESA mount.

Features

- 16:9 Aspect Ratio with 10-point PCAP Touch screen
- Supports 1920 x 1080 pixels max
- Wide viewing angles
- Support for both portrait and landscape
- Anti-fingerprint surface for easy cleaning and readability
- IP65 rating for water and dust protection certified by SGS
- UL61010 for Industrial applications
- HDMI x1, VGA x1
- Supports both panel and VESA mounting options
- 2-year warranty
- Thin design less than 2 inches behind the bezel
- USB PCAP Touchscreen
- 7H hardness Glass Touchscreen
- Panel and VESA Mounting supported

Supported Video Modes — VGA and HDMI

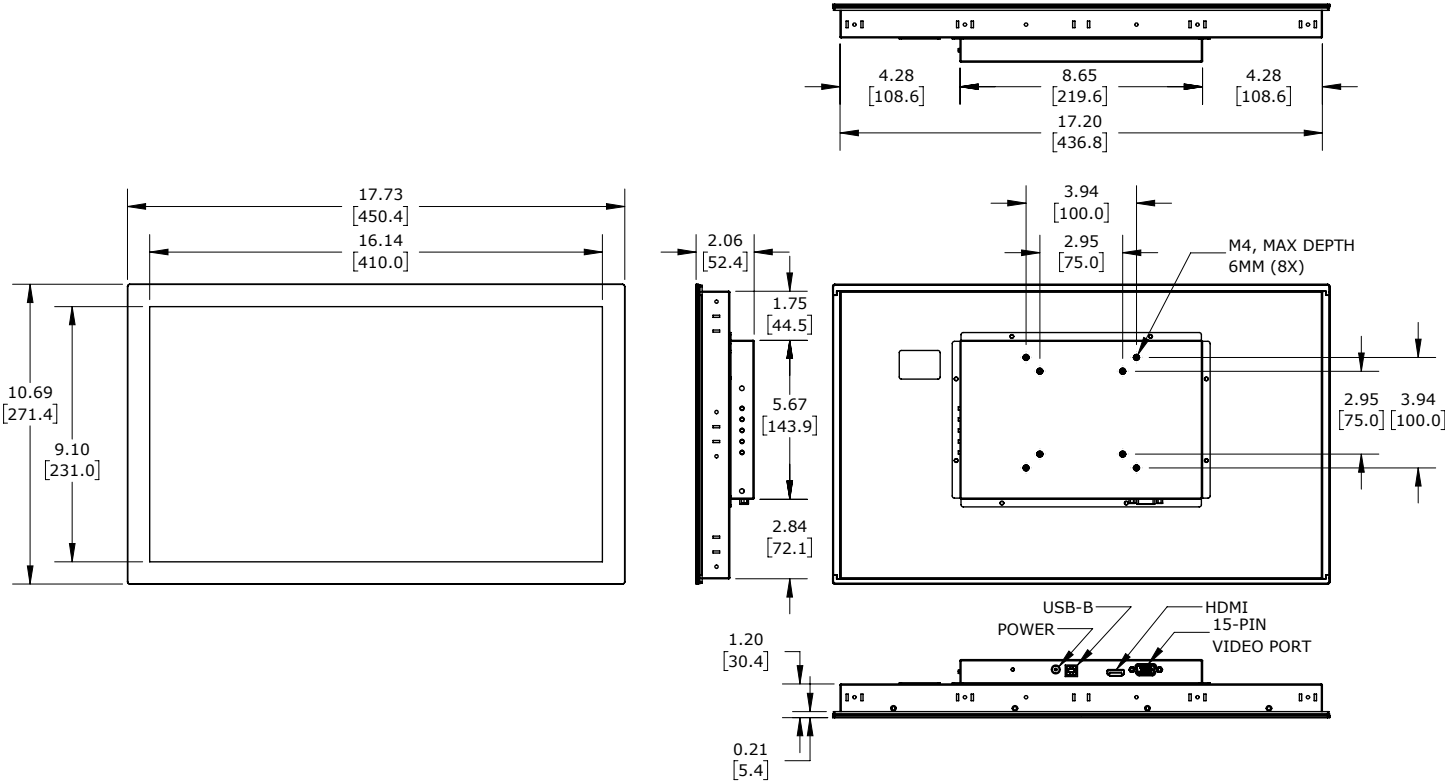
Video Modes					
<i>Resolution</i>	<i>Frequency (Hz)</i>	<i>CTM-18W-M-PM</i>	<i>CTM-22W-M-PM</i>	<i>CTM-24W-M-PM</i>	<i>CTM-27W-M-PM</i>
640 x 480(VGA)	60	Supported	Supported	Supported	Supported
640 x 480(VGA)	75	Supported	Supported	Supported	Supported
720 x 400	70	Supported	Supported	Supported	Supported
800 x 600(SVGA)	60	Supported	Supported	Supported	Supported
800 x 600(SVGA)	75	Supported	Supported	Supported	Supported
1024 x 768(XGA)	60	Supported	Supported	Supported	Supported
1024 x 768(XGA)	75	Supported	Supported	Supported	Supported
1280 x 720(HD)	50	Supported	Supported	Supported	Supported
1280 x 720(HD)	60	Supported	Supported	Supported	Supported
1280 x 800(WXGA)	60	Supported	Supported	Supported	Supported
1280 x 1024(SXGA)	60	Supported	Supported	Supported	Supported
1280 x 1024(SXGA)	75	Supported	Supported	Supported	Supported
1366 x 768(FWXGA)	60	Supported	Supported	Supported	Supported
1440 x 900(WXGA+)	60	Supported	Supported	Supported	Supported
1680 x 1050(WSXGA+)	60	Supported	Supported	Supported	Supported
1920 x 1080(FHD)	50	Supported	Supported	Supported	Supported
1920 x 1080(FHD)	60	Supported	Supported	Supported	Supported

Specifications

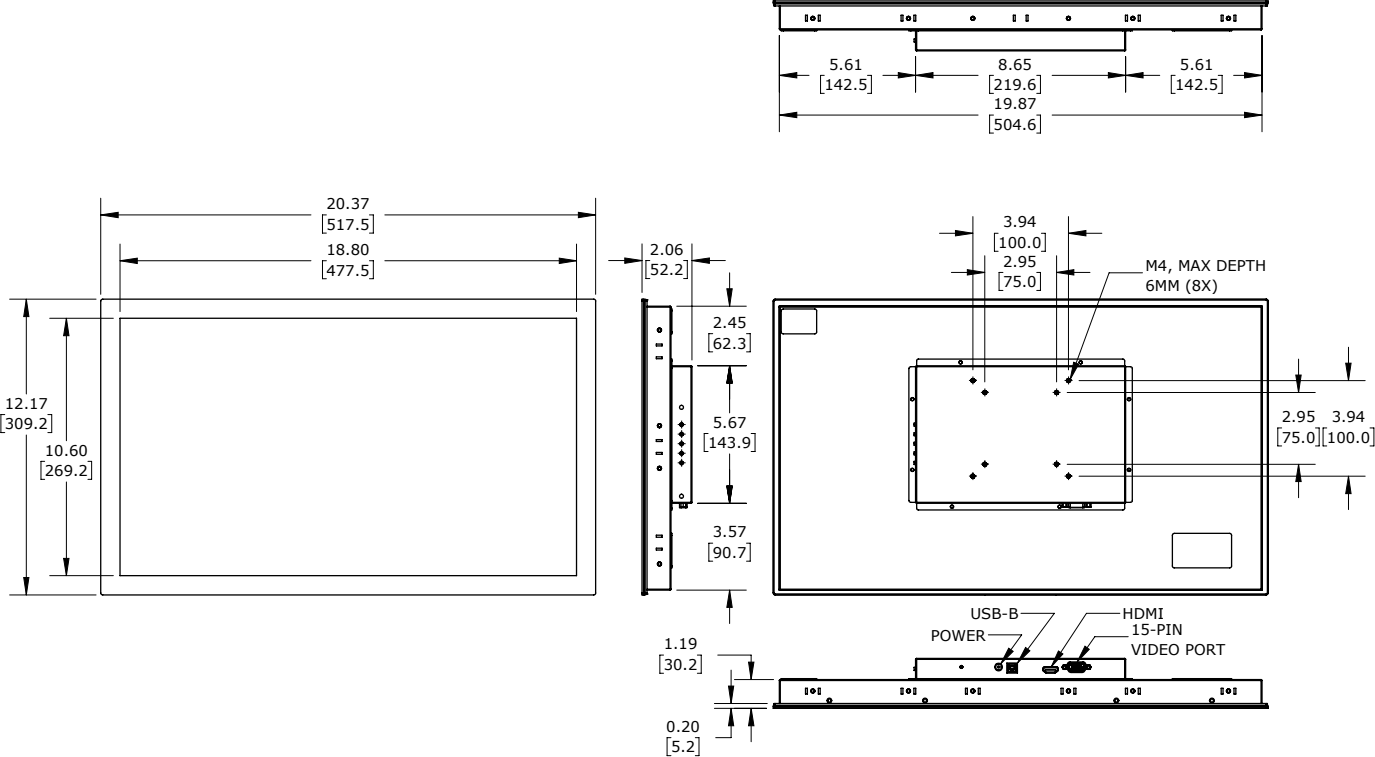
LCD Monitor Specifications				
Part Numbers	CTM-18W-M-PM	CTM-22W-M-PM	CTM-24W-M-PM	CTM-27W-M-PM
Size	18.5 in	21.5 in	23.8 in	27 in
Price	\$,06qtg:	\$,06qth:	\$,-06qti:	\$,-06qtj:
PDF Drawings	PDF	PDF	PDF	PDF
DISPLAY				
Display Type	TFT LCD			
Display Diagonal Size	18.5 in	21.5 in	23.8 in	27 in
Display Size (Active Area H x W)	9.1 x 16.1 [231.14 x 408.94]	10.6 x 18.8 [269.24 x 477.52]	11.7 x 20.8 [297.18 x 528.32]	13.3 x 23.6 [337.82 x 599.44]
Resolution (Max.)	1920 x 1080 pixel			
VESA Modes Supported	MIS-D 75 mm x 75 mm, 100 mm x 100 mm			
Displayable Colors	16.7 M colors			
Brightness, Typical	300 nits	400 nits	200 nits	240 nits
Contrast Ratio, Typical	1000:1		3000:1	
Aspect Ratio	16:9			
Viewing Angle (U/D/R/L)	89/89/89/89		85/85/85/85	
Backlight Life (Hours)	50,000	30,000		40,000
Display Input Signal	HDMI x1, VGA x1			
Touchscreen	10-point anti-fingerprint coating			
Interface	USB B			
Bonding	Air Bonding			
PHYSICAL				
Overall Monitor Dimensions (H x W x D)	17.72 x 10.67 x 2.06 [450.36 x 271.29 x 52.44]	20.37 x 12.17 x 2.06 [517.5 x 309.2 x 52.2]	22.46 x 13.38 x 2.06 [570.4 x 339.9 x 52.4]	25.24 x 14.79 x 2.10 [641.0 x 375.6 x 53.4]
Cutout Dimensions (H x W)	10.29 x 17.23 [261.5 x 437.81]	11.72 x 19.90 [297.9 x 505.6]	12.99 x 21.80 [330.0 x 553.8]	14.54 x 24.70 [369.3 x 627.4]
Chassis Construction	Steel			
Weight	9.3 lb [4.2 kg]	10.6 lb [4.8 kg]	13.7 lb [6.2 kg]	16.5 lb [7.5 kg]
Shipping Weight	11.5 lb [5.2 kg]	13.2 lb [6.0 kg]	16.0 lb [7.3 kg]	19.5 lb [8.8 kg]
ELECTRICAL				
DC Input Voltage	12 VDC			
DC Input Current	2.1 A	2.65 A	1.85 A	2.25 A
Power Consumption	20 W	25.4 W	17.5 W	23.8 W
ENVIRONMENTAL				
Operating Temperature	32 to 158 °F [0 to 70 °C]	-4 to 140 °F [-20 to 60 °C]	32 to 122 °F [0 to 50 °C]	
Storage Temperature	-4 to 158 °F [-20 to 70 °C]	-4 to 140 °F [-20 to 60 °C]		
Operating and Storage Humidity	10% to 80% @ 104 °F [40 °C] (non-condensing)			
Surface Hardness	7H			
Operating Shock	20G acceleration part to part, 11ms			
Operating Vibration	1G random 5 to 500Hz			
Altitude	<2000m			
Pollution Degree	2			
AGENCY				
Environmental	IP65 (front)			
FCC	Yes			
Compliance Certifications	CE, RoHS, CAN/CSA C22.2 No. 61010-1-12, CAN/CSA-C22.2 No. 61010-2-201:18			
Safety Agency Approvals	UL61010-1, UL61010-2-201			

Note: Dimensions are given as inches [millimeters] unless otherwise specified.

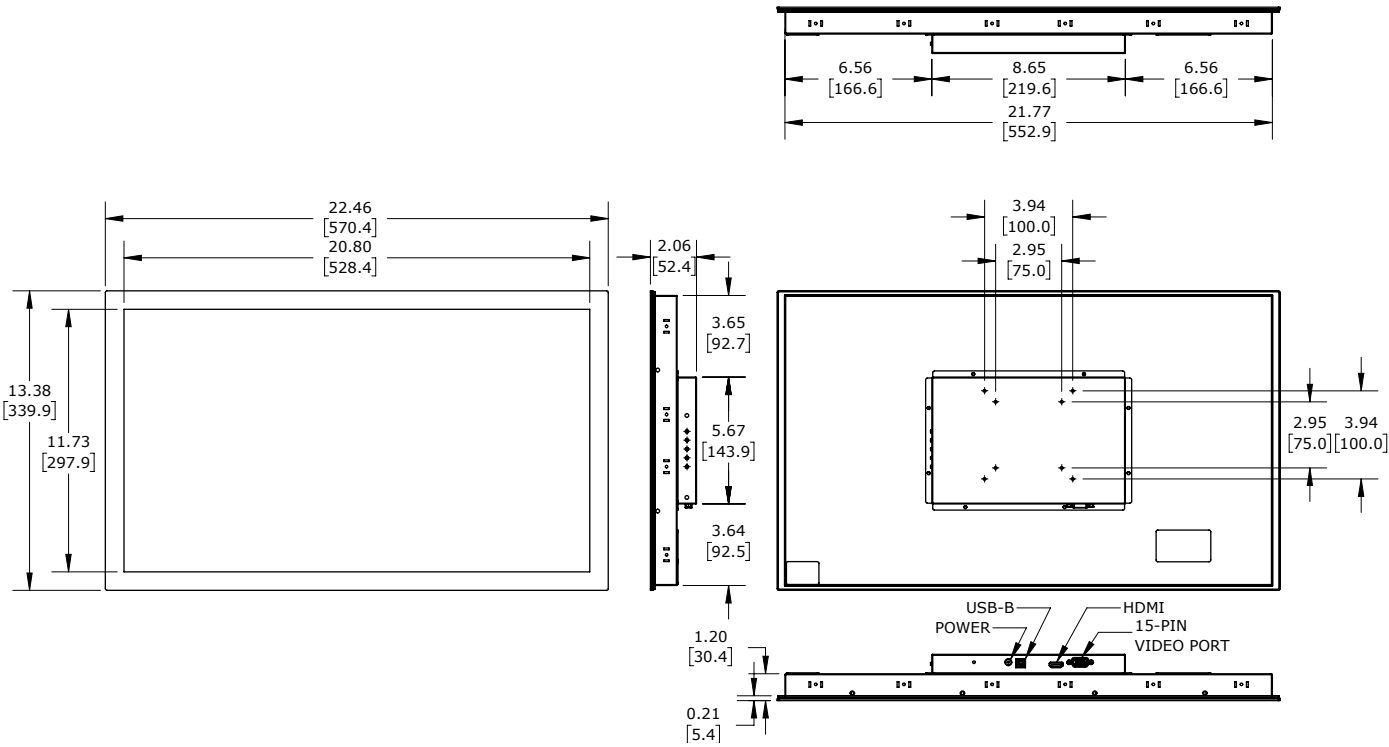
Front, Back, and Side Views of Monitor CTM-18W-M-PM



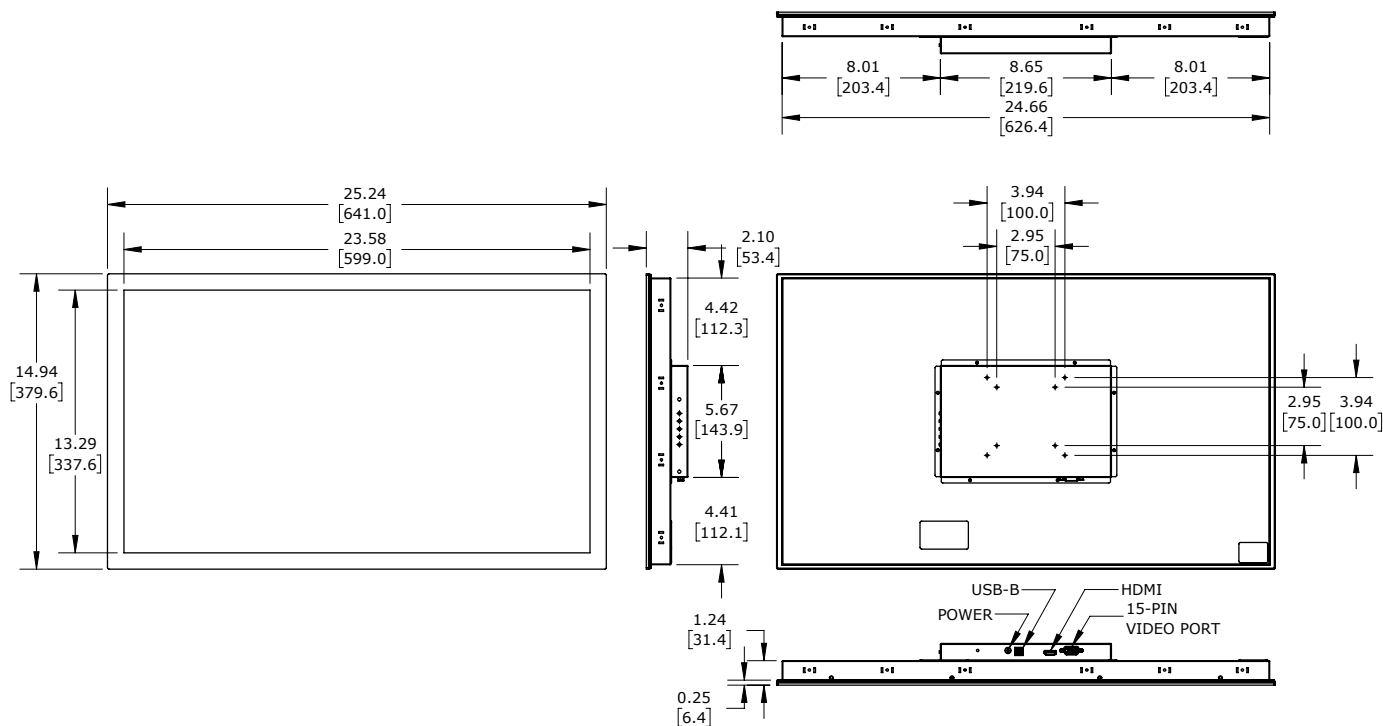
Front, Back, and Side Views of Monitor CTM-22W-M-PM



Front, Back, and Side Views of Monitor CTM-24W-M-PM



Front, Back, and Side Views of Monitor CTM-27W-M-PM



Monitor Installation



Chapter 2

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Monitor Installation

Enclosures made of heavier gauge metal work better because they won't deform or bend as easily when the monitor's sealing gasket gets compressed.

When selecting an enclosure, remember to allow adequate space around the rear of the monitor for good air flow. Do not block air flow from below or above the monitor. If possible, mount the monitor in a vertical orientation.

WARNING: Risk of physical injuries and / or property damage:

When mounting the device, use four M4 x 6mm screws (18.5in - 27.0in) to mount brackets to the rear of the device. Tighten all four screws firmly to support the weight of the device. Make sure that the suspension system is capable of supporting the device.

AVERTISSEMENT: Risque de blessures corporelles et/ou de dommages matériels :

Lors de l'installation de l'appareil, utilisez quatre vis M4 x 6 mm (18.5" - 27.0") pour monter le support VESA à l'arrière de l'appareil. Serrez fermement les quatre vis pour supporter le poids de l'appareil. Assurez-vous que le système de suspension suffit pour supporter l'appareil!



Burn risk caused by hot surfaces:

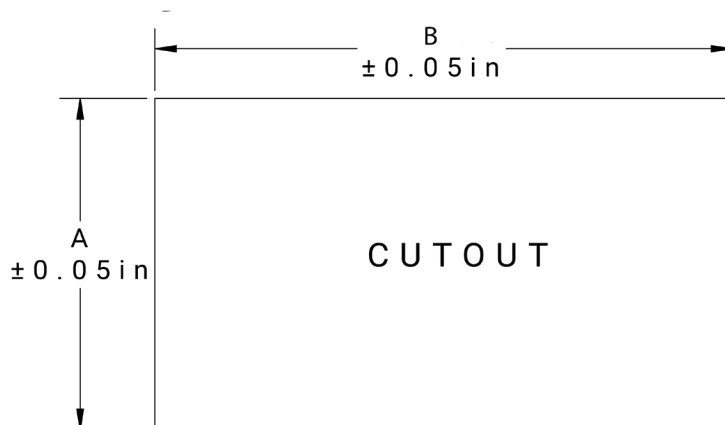
Turn off power and allow the device to cool down prior to performing any mounting or unmounting operations. Avoid prolonged contact with the enclosure (over 10 seconds) when the device is in operation or is still hot from previous use.



PRUDENCE: Risque de brûlures pour l'utilisateur causées par des surfaces chaudes :

Coupez l'alimentation et laissez l'appareil refroidir avant d'effectuer toute opération de montage ou de démontage. Évitez tout contact prolongé avec le boîtier (plus de 10 secondes) lorsque l'appareil est en marche ou qu'il est encore chaud suite à une utilisation précédente.

Cutout Pattern for C-more Monitors



Dimensions in [mm]		
Part Number	A	B
CTM-18W-M-PM	10.29 [261.5]	17.23 [437.8]
CTM-22W-M-PM	11.72 [297.9]	19.90 [505.6]
CTM-24W-M-PM	12.99 [330.0]	21.80 [553.8]
CTM-27W-M-PM	14.54 [369.3]	24.70 [627.4]

Specifications	
Mounting Clip Torque	0.5884 N·m [0.434ft·lb]
Mounting Clearances	0.6 in [15 mm] on each side (U/D/L/R)
Enclosure Thickness Range	0.04-0.24 in [1-6 mm]
Material	Aluminum, Metal, Stainless

Monitor Mounting Instructions

Mount C-more Monitors with Mounting Brackets

Panel-mount the CTM series with mounting brackets listed below (not included). Use the number of brackets specified for each model to insure proper gasket sealing. Make sure there is adequate space behind the panel for ventilation, and that the panel material and thickness can support the weight of the device. Enclosures made of heavier gauge metal work better because they won't deform or bend as easily when the monitor's sealing gasket gets compressed.

Part Number	Number of Brackets	Bracket Part Number
CTM-18W-M-PM	16	CTM-18W-BRK
CTM-22W-M-PM	17	CTM-22W-BRK
CTM-24W-M-PM	20	CTM-24W-BRK
CTM-27W-M-PM	20	CTM-27W-BRK

Specifications	
Mounting Clip Torque	0.434 ft-lb [0.5884 N·m]
Mounting Clearances	0.61 in [15 mm] on each side (U/D/L/R)
Enclosure Thickness Range	0.04-0.24 in [1-6 mm]
Material	Aluminum, Metal, Stainless

If rear access is limited after installation, attach cables before mounting into the panel, as shown on page 2-7 and in Appendix A.

1. Cut the panel opening using the appropriate cutout dimensions.
2. Place the device into the panel cutout.
3. Insert the mounting clips into the slots on the sides of the device.



CAUTION:

CAUTION: Overtightening the mounting clips can damage the device enclosure when the sealing gasket becomes compressed. Tighten mounting clips to the correct specifications to avoid enclosure damage.



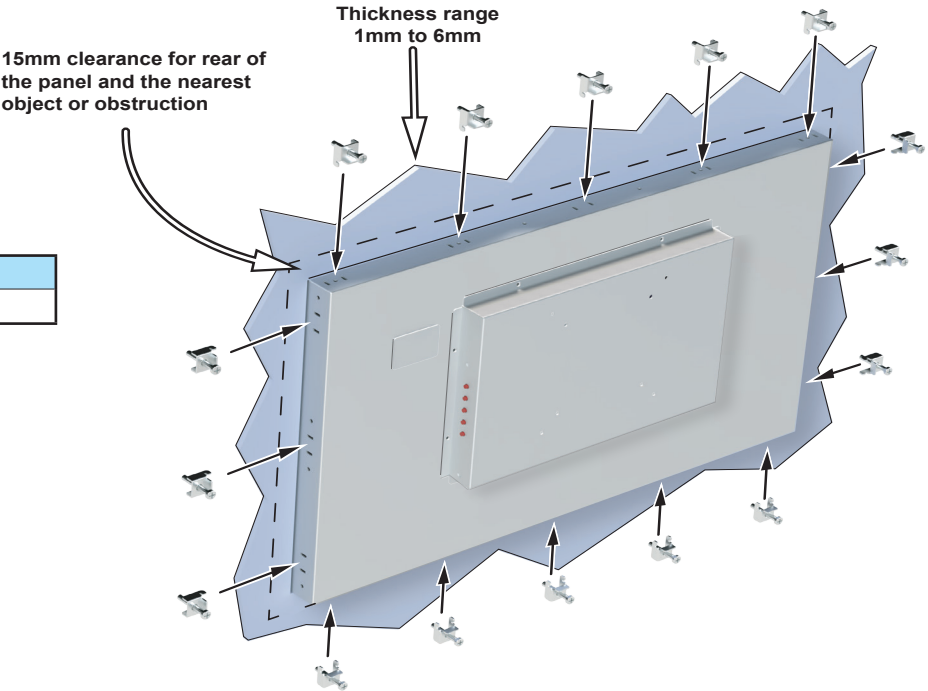
CAUTION:

PRUDENCE: Ne pas trop serrez les clips pour éviter d'endommager le boîtier de l'appareil.

4. Hand tighten the mounting clips with a Phillips head screwdriver.

Panel-Mounted Monitor

Specifications	
Screw Mounting Torque	0.434 ft-lb [0.5884 N·m]



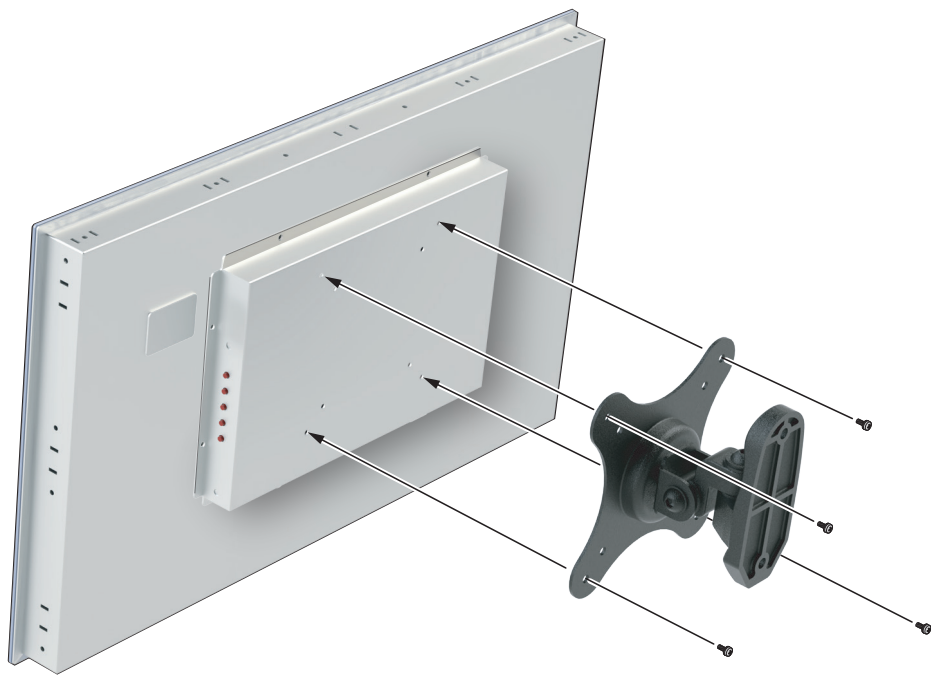
VESA-Mount *C-more* Monitors

VESA-mount to a standard VESA 75 x 75mm or 100 x 100mm mount using (4) M4 x 0.7mm screws (not included). The monitor thread is 6mm deep.



NOTE – The VESA mounting hole pattern is shown in the figure below.

VESA-Mounted Monitor



Specifications	
Screw Mounting Torque	0.4702 ft-lb [0.6375 N·m]

Connect Power

Included in the box is a 2.5 mm barrel to terminal adapter.



CAUTION:

CAUTION: Use only a certified power supply with SELV output or double insulation, and evaluated by UL 61010-2-201 or UL 62368-1 standards.

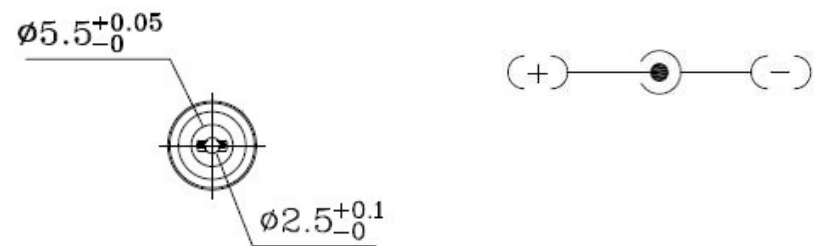
This product is intended for use with a UL/IEC certified power supply or DC source suitable for use at a minimum of 50/60/70 °C, and whose output meets SELV with LPS (or LE) or Class 2, rated for 12 VDC min. 2.65A. For further assistance, contact us.



CAUTION:

PRUDENCE: Utilisez uniquement une alimentation certifiée avec Sortie SELV ou double isolation et évaluée selon les normes UL 61010-2-201 ou UL 62368-1.

Ce produit est destiné à être alimenté par une alimentation certifiée UL/IEC ou une source CC adaptée à une utilisation à une température de fonctionnement minimale de 50/60/70 °C et dont la sortie est conforme à la norme SELV avec LPS (ou LE) ou Classe 2, évaluée à 12 VDC min. 2,65 A. Pour obtenir de l'aide, contactez nous.



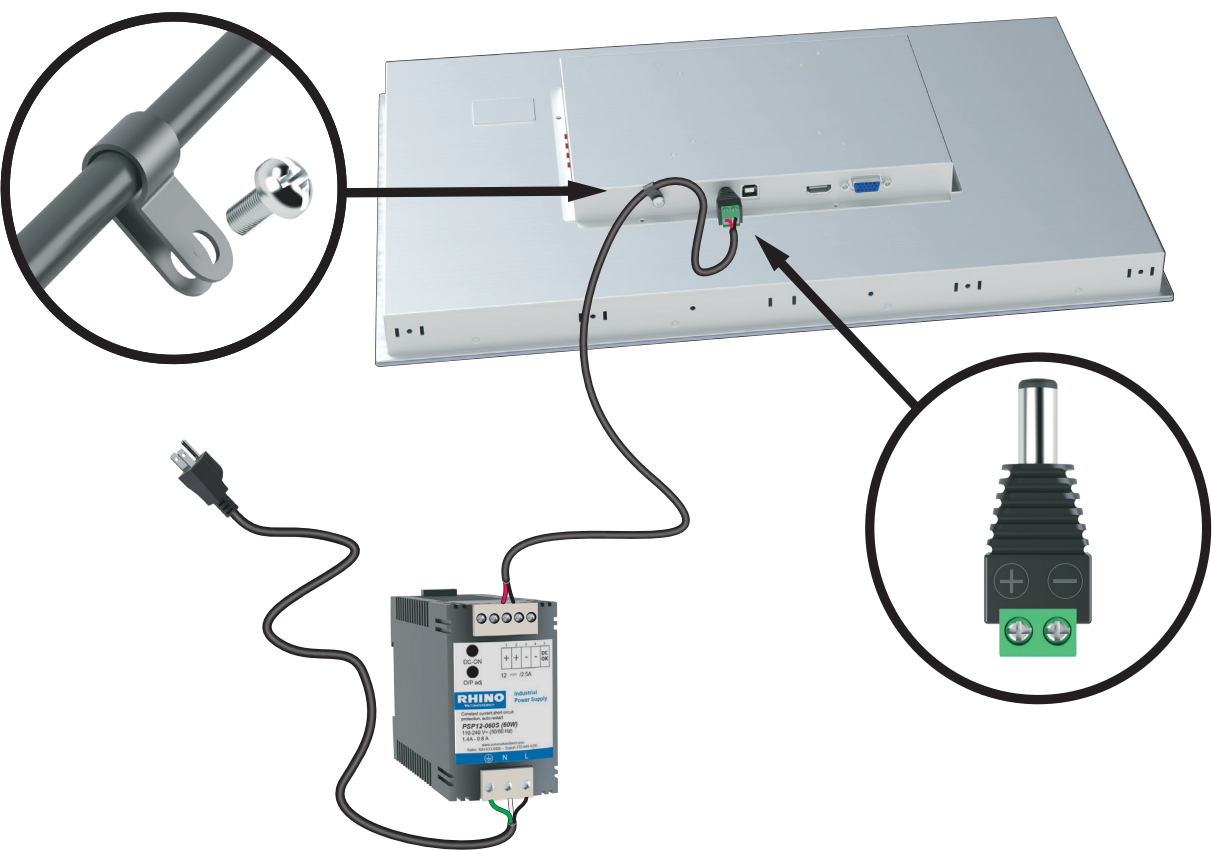
Pin No.	Pin Name	Signal Type
1	Center Pin +12V @5A	Power
2	GND	GND

Panel Power Draw	
<u>CTM-18W-M-PM</u>	≤ 20 W
<u>CTM-22W-M-PM</u>	≤ 25.4 W
<u>CTM-24W-M-PM</u>	≤ 17.5 W
<u>CTM-27W-M-PM</u>	≤ 23.8 W



CAUTION: Do not connect positive voltage to (-) negative terminal. Doing so will damage the power circuit of the monitor.

- 1. Use the provided adapter to connect to 12 VDC power source.
- * Or use a properly rated 12 VDC brick style power supply with the correct barrel connector, such as the **FSP060-DHAN3**.
- 2. Use the cable strain relief provided in the package contents to secure the DC power connector to the rear panel as shown below.



Required Wire Specification	
Wire Size	16 - 24 AWG [0.2 0-1.30 mm ²]
Wire Material and Temperature	50 / 60 / 70 °C [122 / 140 / 158 °F] Copper
Tightening Torque	2.21 lb-in (0.25N·m)

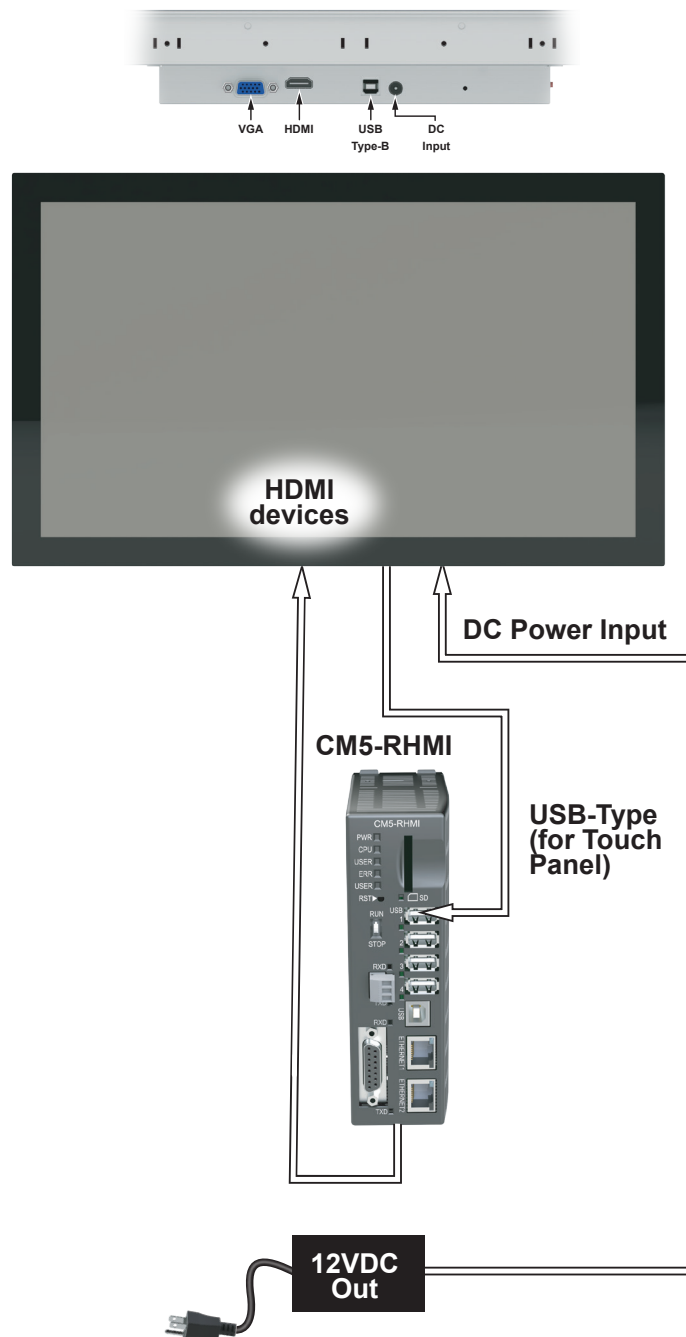
Connect Video and Touch Screen Cables

Connect video inputs using either a 15-pin VGA cable or HDMI cable (not included).

Touch Screen

Connect standard USB A to USB B cable. (Part number [USB-CBL-AB6](#), [USB-CBL-AB3](#), [USB-CBL-AB15](#), [USB-CBL-AB10](#)).

Example: **C-more** monitor connected to CM5-RHMI Headless **C-more** HMI



Turning on the Computer and Monitor

1. After you apply power and connect all cables, power up the computer.
2. Press the POWER button on the rear of the monitor.
 - The monitor performs an automatic self-configuration and displays an image.

If no image appears, the monitor may have the wrong video input selected.

To change between VGA and HDMI inputs, press the (+) button on the rear of the monitor.

If the video source is powered off or disconnected, the monitor remains on and displays the NO CABLE error message for two seconds and then goes to power saving mode when the screen goes blank. The touch screen remains active during this time. When the video source is powered on again or reconnected, the NO CABLE message disappears and normal image display resumes.



CAUTION: The touch screen remains active even if the video cable is disconnected.

Touch Screen

The Projected Capacitive touchscreen uses standard HID input drivers included with Windows PCs and most other devices.

Monitor OSD and Settings



Chapter 3

In this Chapter...

On Screen Display (OSD) Controls.....3-2

On Screen Display (OSD) Controls

Use the OSD controls to make adjustments to the monitor’s settings. The OSD controls are located on the back of the monitor. They consist of five pushbuttons.



OSD Buttons		
Button	Function	Purpose
Power	Power On/Off	Press to power the monitor on/off.
		Press at least 1 second for power off.
Menu	OSD menu On/Off	Press to turn the OSD menu on/off.
	Leave OSD Submenu	Press to step out of a submenu.
Select	Step through menu	Press to step into a submenu.
	Execute Autotune (VGA only)	Press to execute autotune after clicking the "Auto" key.
+	Move up to next item	Press to move the cursor up to the next menu item.
	Increase value	Press to increase the value of an item.
-	Move down to next item	Press to move the cursor down to the next menu item.
	Decrease value	Press to decrease the value of an item.

On-Screen Display Menus Controls

OSD Menus					
Main Menu	Submenu	Input Method	Value/Range	Default Value	Notes
Picture	Backlight	Slider	0-100	100	Adjust luminance
	Brightness	Slider	0-100	50	Adjust brightness
	Contrast	Slider	0-100	50	Adjust contrast
	Sharpness	Slider	0-4	2	Adjust sharpness
Display	Auto Adjust	Text	—	—	Auto adjust VGA screen (VGA only)
	H Position	Slider	0-100	VGA adjustable	Adjust VGA screen horizontal position (VGA only)
	V Position	Slider	0-100	VGA adjustable	Adjust VGA screen vertical position (VGA only)
	Clock	Slider	0-100	VGA adjustable	Adjust VGA signal clock latency (VGA only)
	Phase	Slider	0-100	VGA adjustable	Adjust VGA signal clock phase (VGA only)
Color	Temperature	Text	9300K	6500k	Select color temperature
			6500K		
			5800K		
			User		
	Hue	Slider	0-100	50	Adjust color hue
	Saturation	Slider	0-100	50	Adjust color saturation
	Auto Color	Text	—	—	Auto adjust color parameter on VGA
Advance	Aspect Ratio	Text	Full	Full	Select the aspect ratio of the screen
			16:9		
			4:3		
			5:4		
	Over Scan	Text	On/Off	On	Turn on/off over scan on screen
Input	DDCCI	Text	On/Off	On	Turn on/off DDCCI communication function
	Auto Select	—	—	—	Auto select input source
	VGA	—	—	—	Set input source as VGA
	HDMI	—	—	—	Set input source as HDMI
Other	Reset	—	—	—	Reset OSD user setting
	Menu Time	Slider	10-60	10	Set OSD menu timeout
	OSD H Pos	Slider	0-100	50	Set OSD menu horizontal position
	OSD V POS	Slider	0-100	50	SET OSD MENU VERTICAL POSITION
	Language	Text	English	English	Set OSD language
			French		
			German		
			Italiano		
			Spanish		
			中文		
			簡中		
			日文		
	Transparency	Slider	0-7	0	Set OSD menu transparency
Information	—	Text	—	—	Display input source information

Hardware Connections



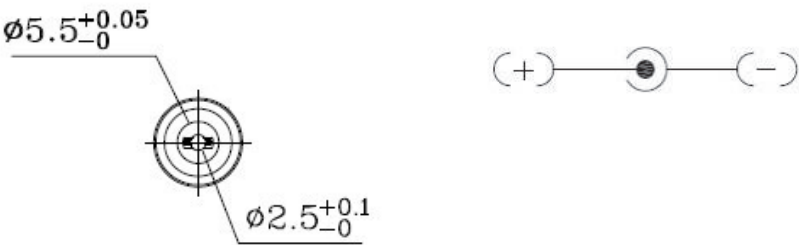
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Connector Pin Layouts	A-2
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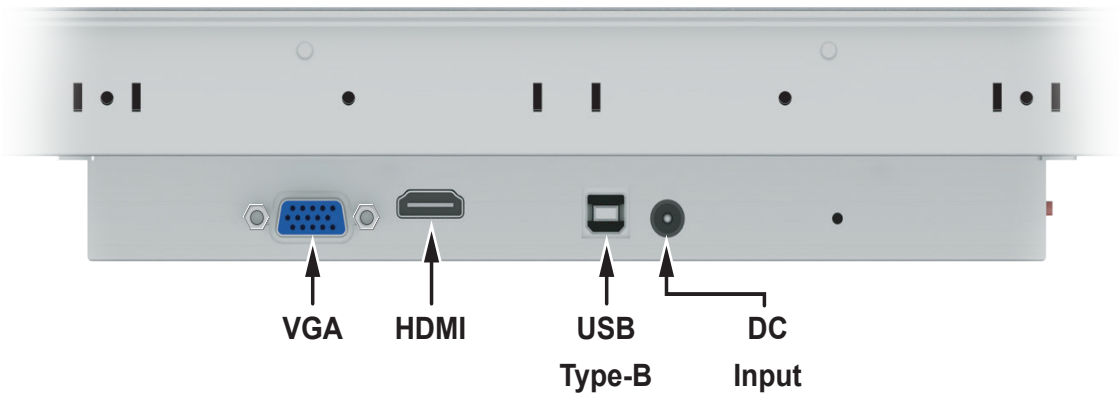
Connector Pin Layouts

Barrel Pin Layout

Pin No.	Pin Name	Signal Type
1	Center Pin +12V @5A	Power
2	GND	GND

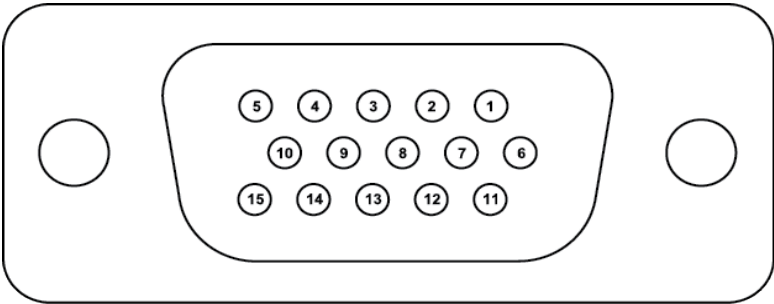


Input/Output Layout

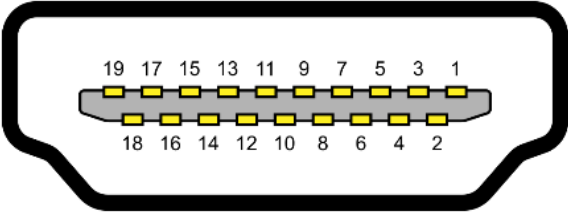


VGA Connector Pin Assignment

Pin Number	Pin Name	Signal Type
1	RED	Analog In
2	GREEN	Analog In
3	BLUE	Analog In
4	N/C	—
5	GND	GND *for cable detection
6	GND	GND
7	GND	GND
8	GND	GND
9	+5V Power	Power In
10	GND	GND
11	N/C	—
12	SDA	I/O
13	Horizontal Sync	In
14	Vertical Sync	In
15	SCL	In



HDMI Connector Assignment

Pin Number	Pin Name	Signal Type	Pin Assignment
1	TMDS Data2+	In	
2	TMDS Data2 Shield	GND	
3	TMDS Data2-	In	
4	TMDS Data1+	In	
5	TMDS Data1 Shield	GND	
6	TMDS Data1-	In	
7	TMDS Data0+	In	
8	TMDS Data0 Shield	GND	
9	TMDS Data0-	In	
10	TMDS Clock +	IN	
11	TMDS Clock Shield	GND * Cable detection	
12	TMDS Clock -	In	
13	CEC	Not used	
14	NC	—	
15	DDC Clock	In	
16	DDC Data	I/O	
17	GND	GND	
18	HDMI-HOT	+5V Power (in)	
19	HDMI-PLUG	Out (Hot Plug Detection)	

Pin Number	Pin Name	Signal Type	Pin Assignment
1	+5V	In	—
2	USB-Data-	I/O	USB2.0 for touch
3	UDB-Data+	I/O	USB2.0 for touch
4	GND	GND	—

Operating Systems



In this Appendix...

Supported Operating Systems.....B-2

Supported Operating Systems

Operating Systems							
Operating System	Operating System Version			Operating System Standard Driver		Multi-Touch	
Windows	Windows11			Can Use		Can Use	
	Windows10			Can Use		Can Use	
	Windows8.1			Can Use		Can Use	
	Windows7			Can Use		Can Use	
Linux	Kernel Version	X86 / X-Window				ARM / MIPS	
		32-bit		64-bit			
		Single-Touch	Multi-Touch	Single-Touch	Multi-Touch	Single-Touch	Multi-Touch
	3.x.x / 4.x.x / 5.x.x	Can Use	Can Use	Can Use	Can Use	Can Use	Can Use
	2.6.36 or Later	Can Use	Can Use	Can Use	Can Use	Can Use	Can Use
	2.6.24 ~ 2.6.35	Can Use	Can Use	Can Use	Can Use	Can Use	Cannot Use
	2.6.23 ~ Older	Can Use	Cannot Use	Can Use	Cannot Use	Cannot Use	Cannot Use
	2.4.x	Can Use	Cannot Use	Cannot Use	Cannot Use	Cannot Use	Cannot Use



NOTE – You can only use multi-touch with supporting applications.

Troubleshooting



In this Appendix...

Troubleshooting.....C-2

Troubleshooting

If you experience trouble with your monitor, check the following items before contacting technical support. The most common problems usually involve an incorrect connection from the graphics card to the monitor. We recommend that you also consult your graphics card user's manual during the troubleshooting procedure. Do not exceed the maximum refresh rate recommended for the monitor.

<i>Problem</i>	<i>Corrective Action</i>
<i>Blank Screen</i>	Check that the monitor is turned on.
	Check that the video signal cable from the monitor is securely and correctly connected.
	Check that the graphics card is firmly seated in the card slot of the computer motherboard.
	Check that the video input from the graphics card falls within the timing range of the monitor.
<i>Unexpected Image</i>	Check that the video input from the graphics card falls within the timing range of the monitor.
	Check that the video signal cable from the monitor is securely and correctly connected to the video connector of the computer.
<i>Unexpected Color</i>	Check that the video cable from the display is securely and correctly connected to the video connector of the computer.
<i>Garbled Image</i>	Check that the video input from the graphics card falls within the timing range of the monitor
	Check that the video signal cable from the monitor is securely and correctly connected to the video connector of the computer.
<i>Unresponsive Touch</i>	Verify the USB cable is correctly attached and functional.

Chemical Compatibility



In this Appendix...

Chemical Compatibility D-2

 Recommended Cleaning Method D-2

 Approved Cleaning Chemicals..... D-2

 Do Not Use the Following Chemicals D-2

Chemical Compatibility

This appendix is made up of specifications provided by the manufacturer of the material. The chemical compatibility of the following parts is described below.

- Glass: Touch screen
- Anti-fingerprint coating
- SGCC: Bezel
- EPDM: Gasket

Recommended Cleaning Method

Use a neutral detergent (pH 6~8) and warm water for cleaning.
Wipe gently with a soft cloth such as a microfiber cloth.
Avoid using any corrosive, solvent or abrasive chemicals and tools.

Approved Cleaning Chemicals

Recommended Cleaning Chemicals		
<i>Chemical Material</i>	<i>Density (%)</i>	<i>Temperature Range</i>
Isopropyl Alcohol	70-80	68-77 °F [20-25 °C]
Distilled Water	100	68-77 °F [20-25 °C]
Ethanol	70-80	68-77 °F [20-25 °C]
Mild Soap Solution	1-2 (soap)	68-77 °F [20-25 °C]

Do Not Use the Following Chemicals

Do Not Use
<i>Chemical Material</i>
Methyl Alcohol at concentration > 35%
Thinner or benzene
Strong alkali lye
Strong solvents
Acids
Detergents with fluoride
Detergents with ammonia at concentration > 1.6%
Abrasive cleaners
Detergents with abrasives
Formula 409

