

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:

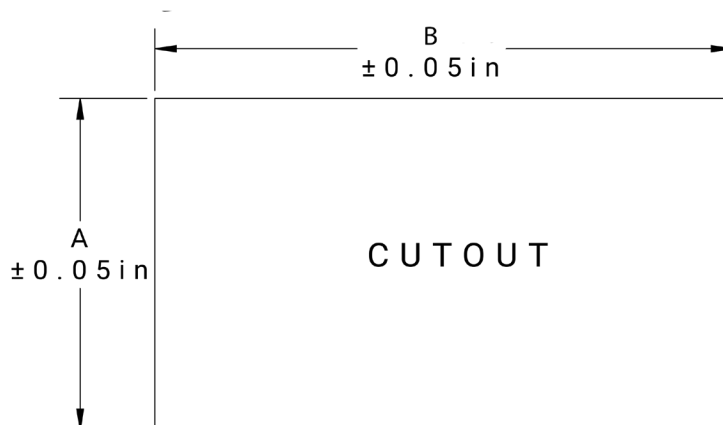
Turn off power and allow the device to cool down prior to performing any mounting or unmounting operations. Avoid prolonged contact with the enclosure (over 10 seconds) when the device is in operation or is still hot from previous use.



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.



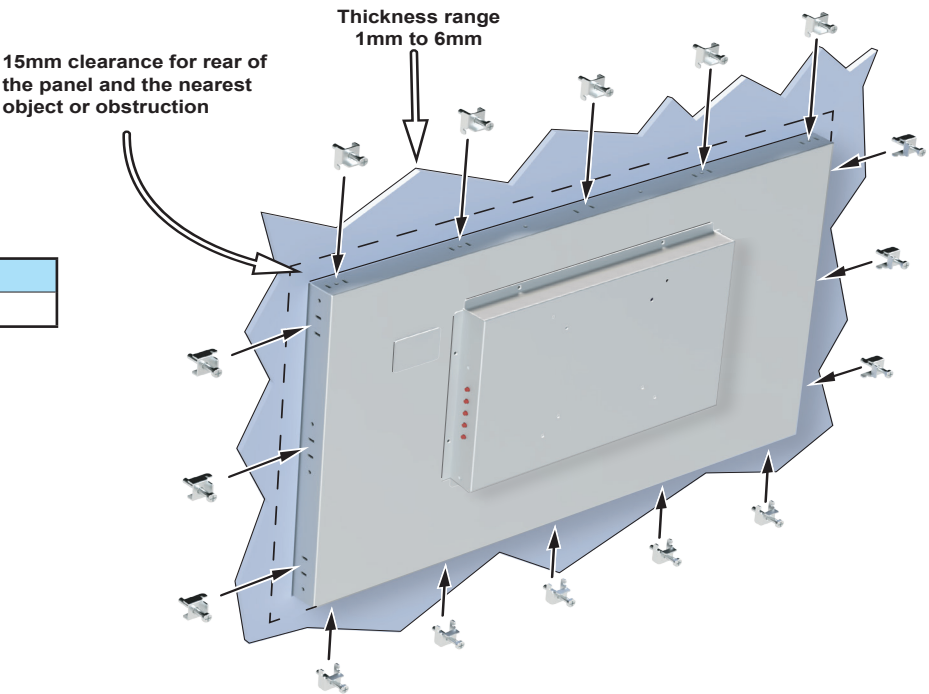
CAUTION:

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]



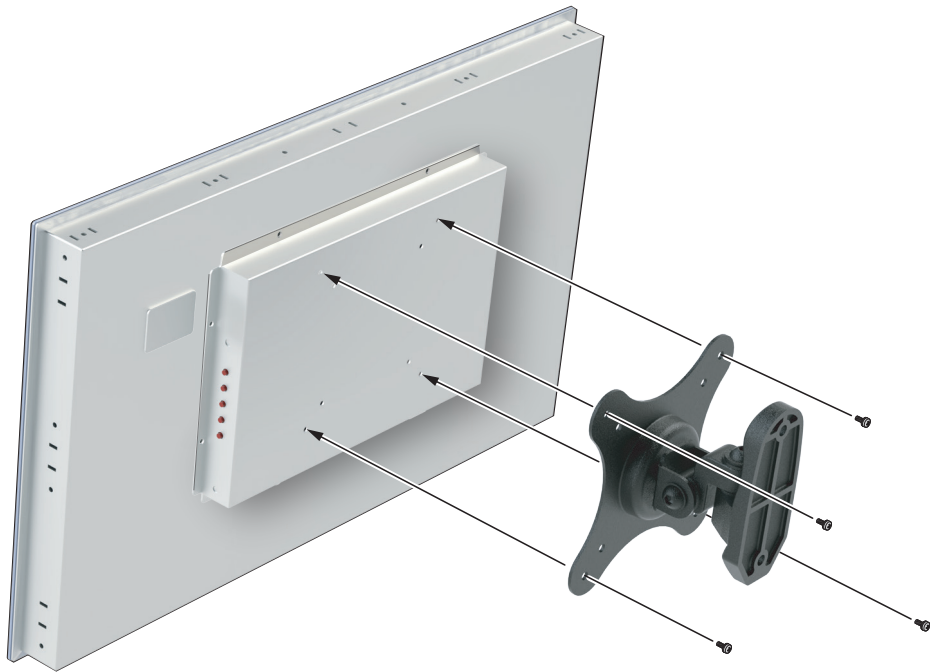
VESA-Mount *C-more* Monitors

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.

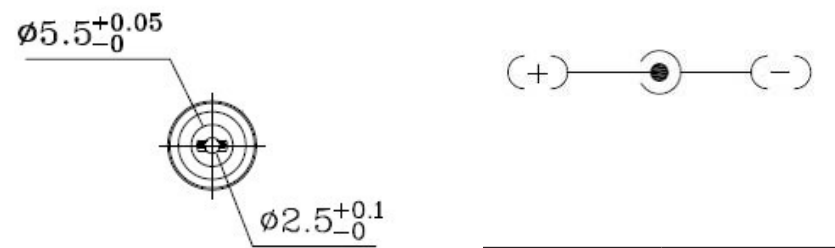
This product is intended for use with a UL/IEC certified power supply or DC source suitable for use at a minimum of 50/60/70 °C, and whose output meets SELV with LPS (or LE) or Class 2, rated for 12 VDC min. 2.65A. For further assistance, contact us.



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.



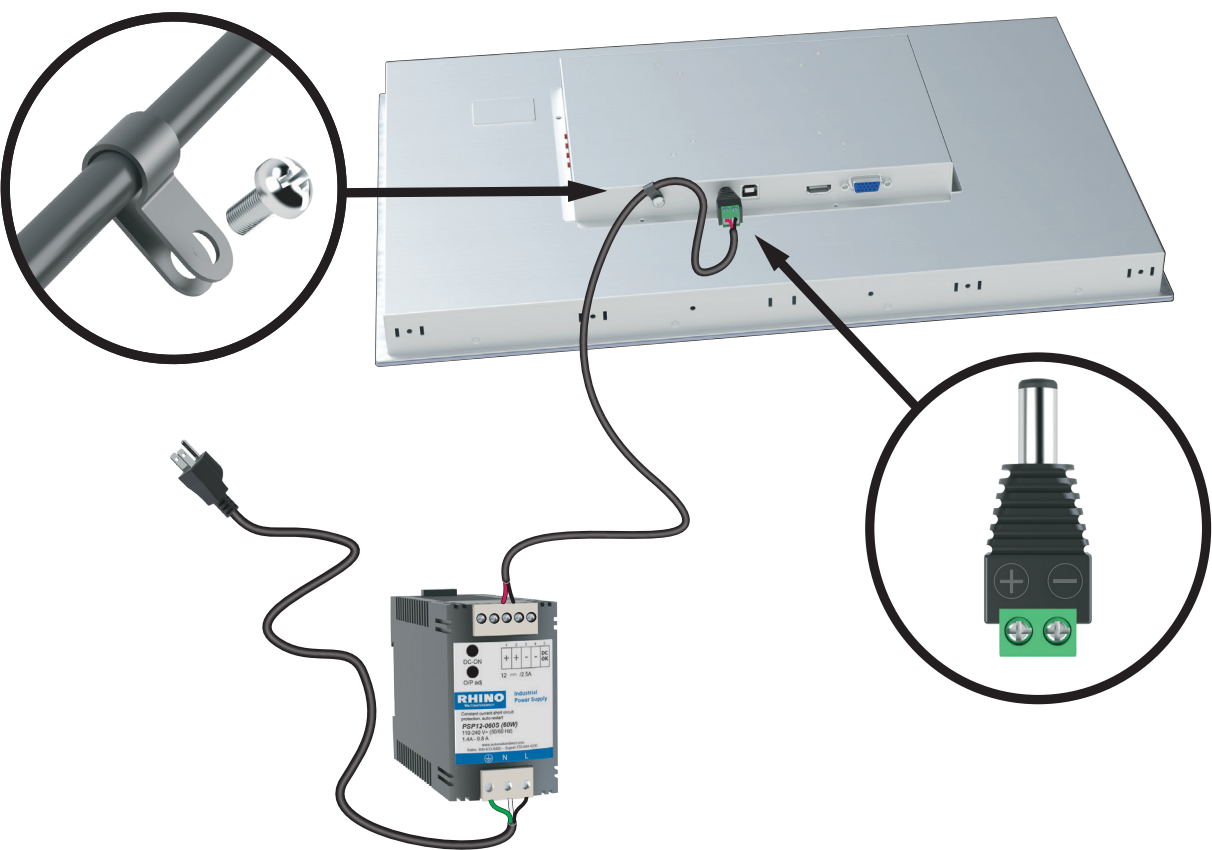
Panel Power Draw	
<u>CTM-18W-M-PM</u>	≤ 20 W
<u>CTM-22W-M-PM</u>	≤ 25.4 W
<u>CTM-24W-M-PM</u>	≤ 17.5 W
<u>CTM-27W-M-PM</u>	≤ 23.8 W

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



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)

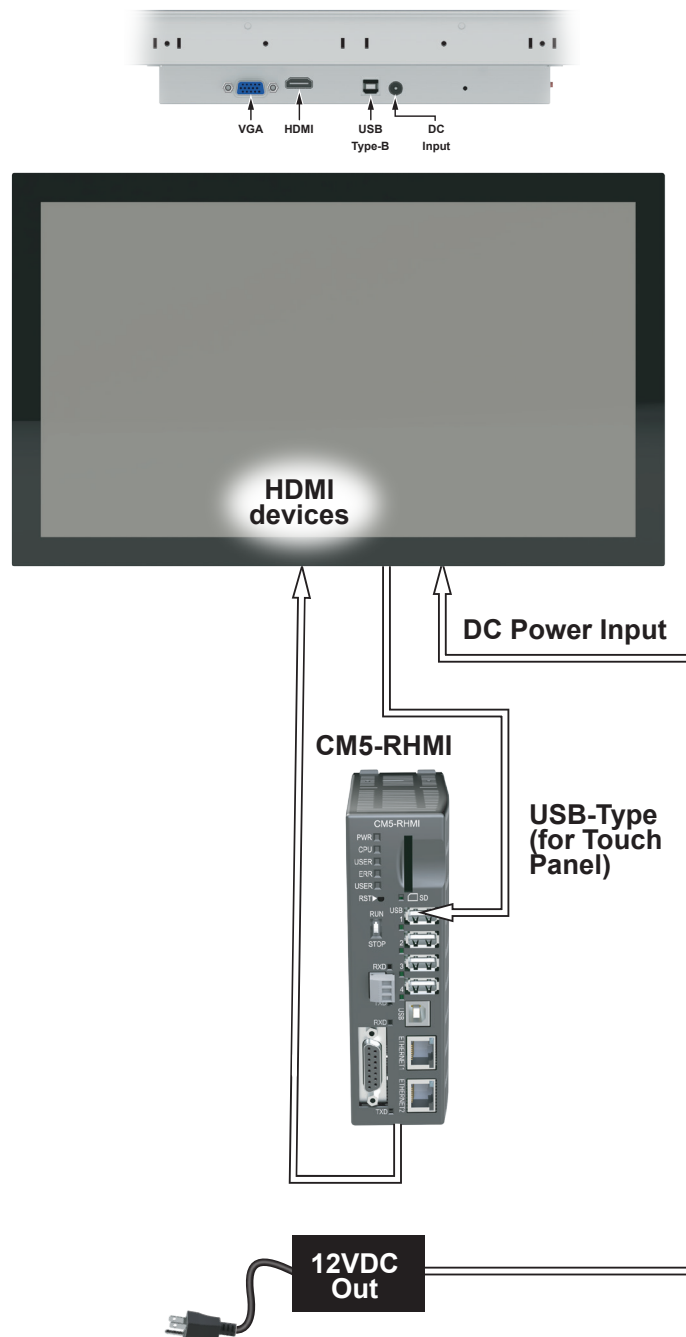
Connect Video and Touch Screen Cables

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.