



INSTALLATION INSTRUCTIONS

BlackCanvas 24" - kit



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1. Introduction

This Installation Instruction is intended to provide the information required to install the BlackCanvas 24", kit. For additional information and technical assistance, please contact your CPAC Systems Sales Representative.

CAUTION: A general understanding of the features and functions of Display Splitter and its components is a prerequisite for the proper use of this equipment. Therefore, do not operate this equipment before reading these instructions thoroughly, including all appropriate warnings and cautions.

NOTE: Figures in this manual are provided for reference purposes only. Screens will likely differ based on the product and system configuration.

1.1 Caution and Notes

Please read and adhere to all cautions listed throughout this instruction.

A **WARNING** is provided to outline items that, if not followed, may result in death or serious injury to the patient or damage to the equipment.

A **CAUTION** is provided to alert the user that special care should be taken for the safe and effective use of the device.

A **NOTE** is provided when additional general information is available.

CAUTION: Only qualified and trained personnel or Service Personnel should attempt to service the equipment. Service is defined as any activity requiring the cover to be removed for internal adjustments, parts replacements, repairs or software upgrades of any kind to insure compatibility.

CAUTION: To ensure compatibility with the product software, use only approved components to repair any part of the product. Use of unauthorized software, devices accessories, or cables may render the application unsuitable for its intended use. It may also result in increased electromagnetic emissions or decreased Immunity of the system.

CAUTION: Only compatible systems, capable of supporting the outlined communication protocols, shall be used with the product.

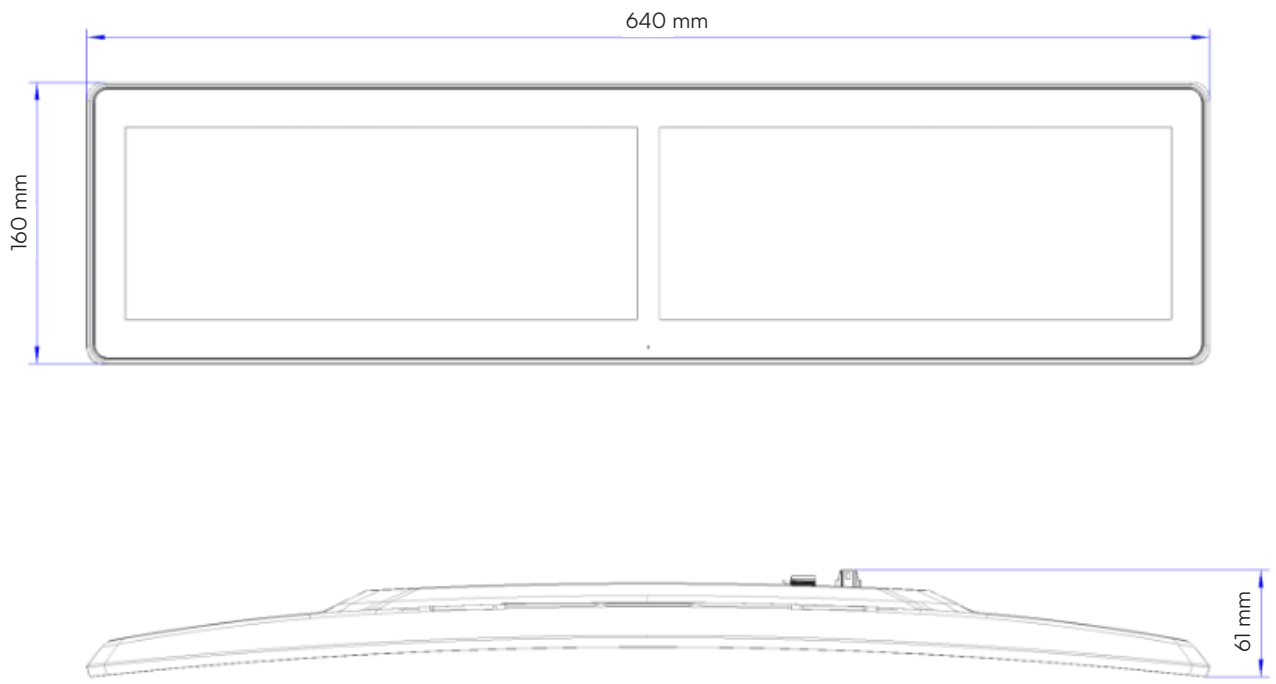
CAUTION: Changes or modifications not expressly approved by CPAC Systems AB could void the user's authority to operate the equipment.

WARNING: This product has not been evaluated or certified as ignition protected. Installation within engine rooms or other areas where flammable vapors may be present is prohibited.

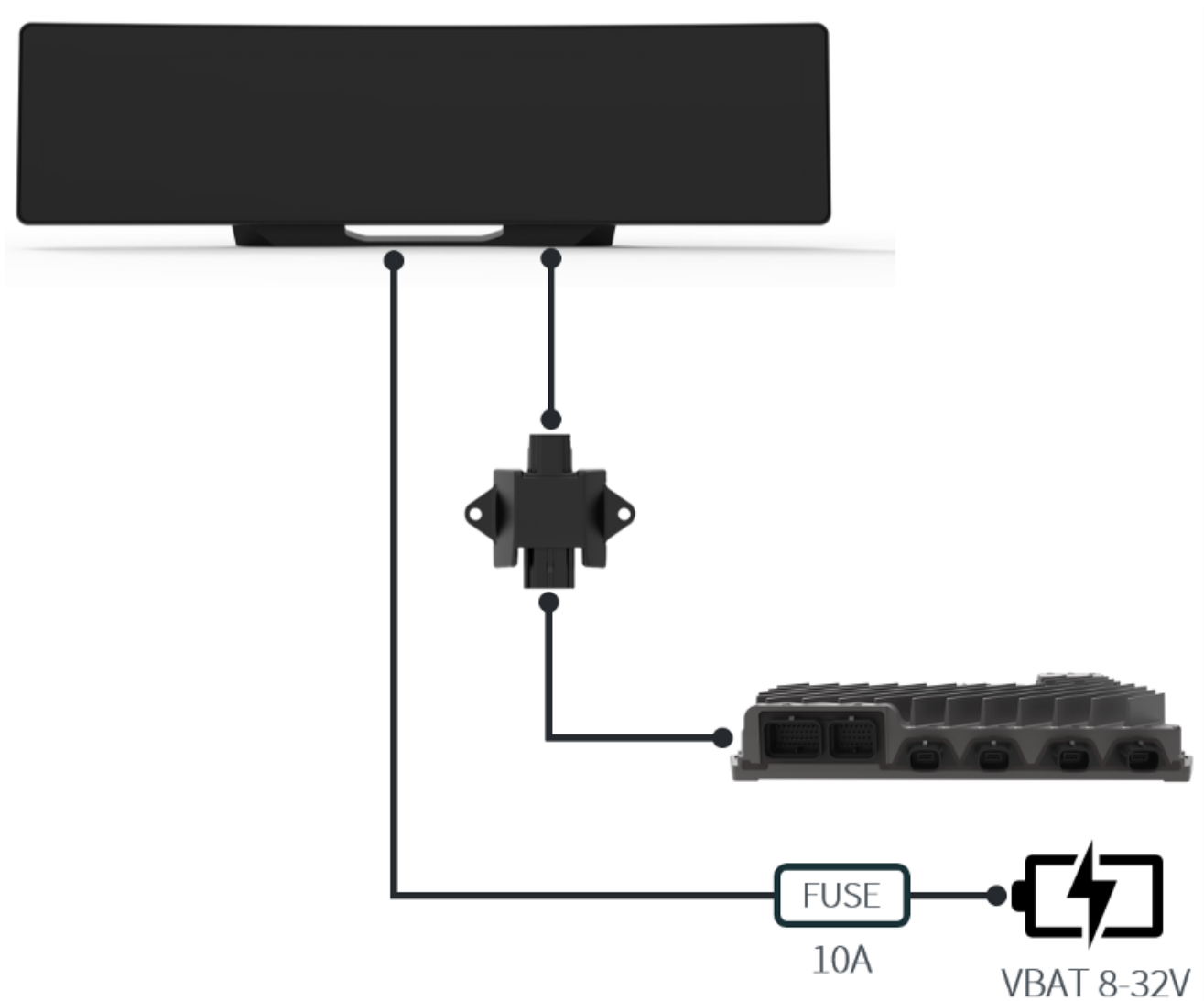
1.2 Intended Use

The BlackCanvas 24", kit is a display intended for fixed installation in vehicle and marine environments. It is used to present visual information such as system interfaces, camera feeds, navigation or similar content from connected equipment.

2. Overall Dimensions



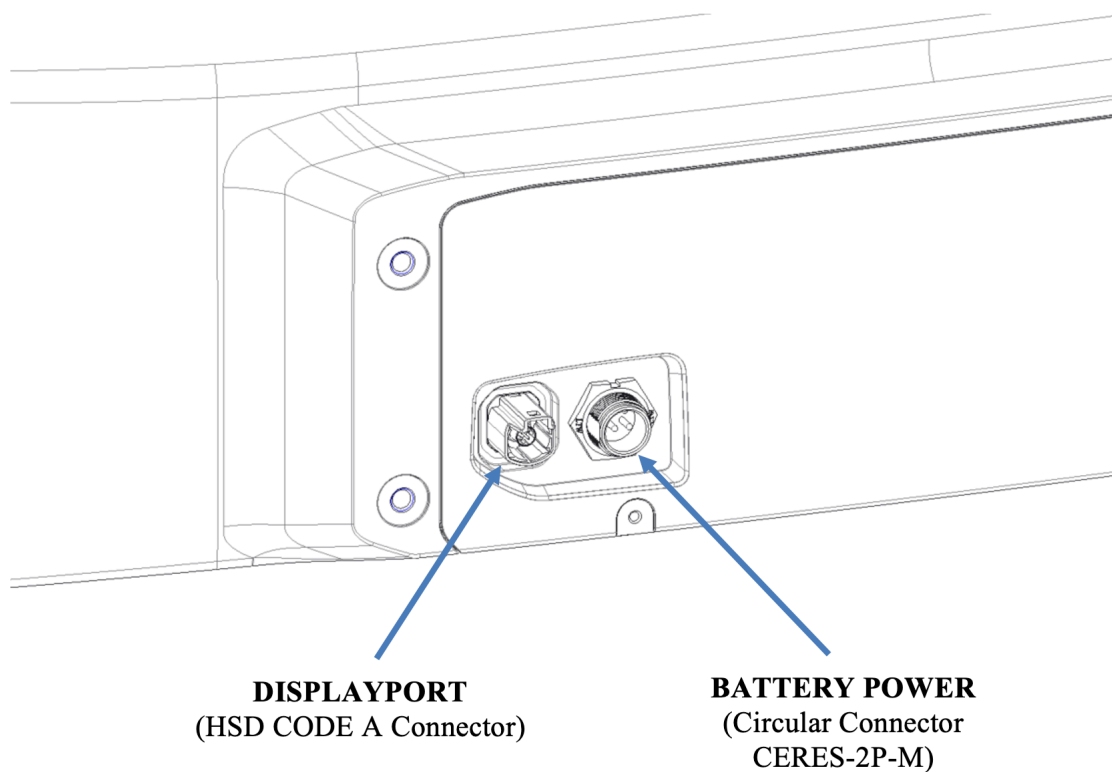
3. Wiring Schematic

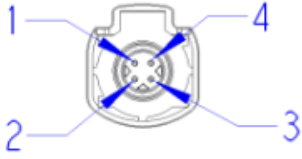


NOTE:

- A 10A fuse (not included) must be installed on the positive power line.
- The battery cable may be shortened to the required length as needed, but the ferrite must remain installed and must not be removed.
- Cables are included in the BlackCanvas 24", kit.

3.1 Connector Pinouts

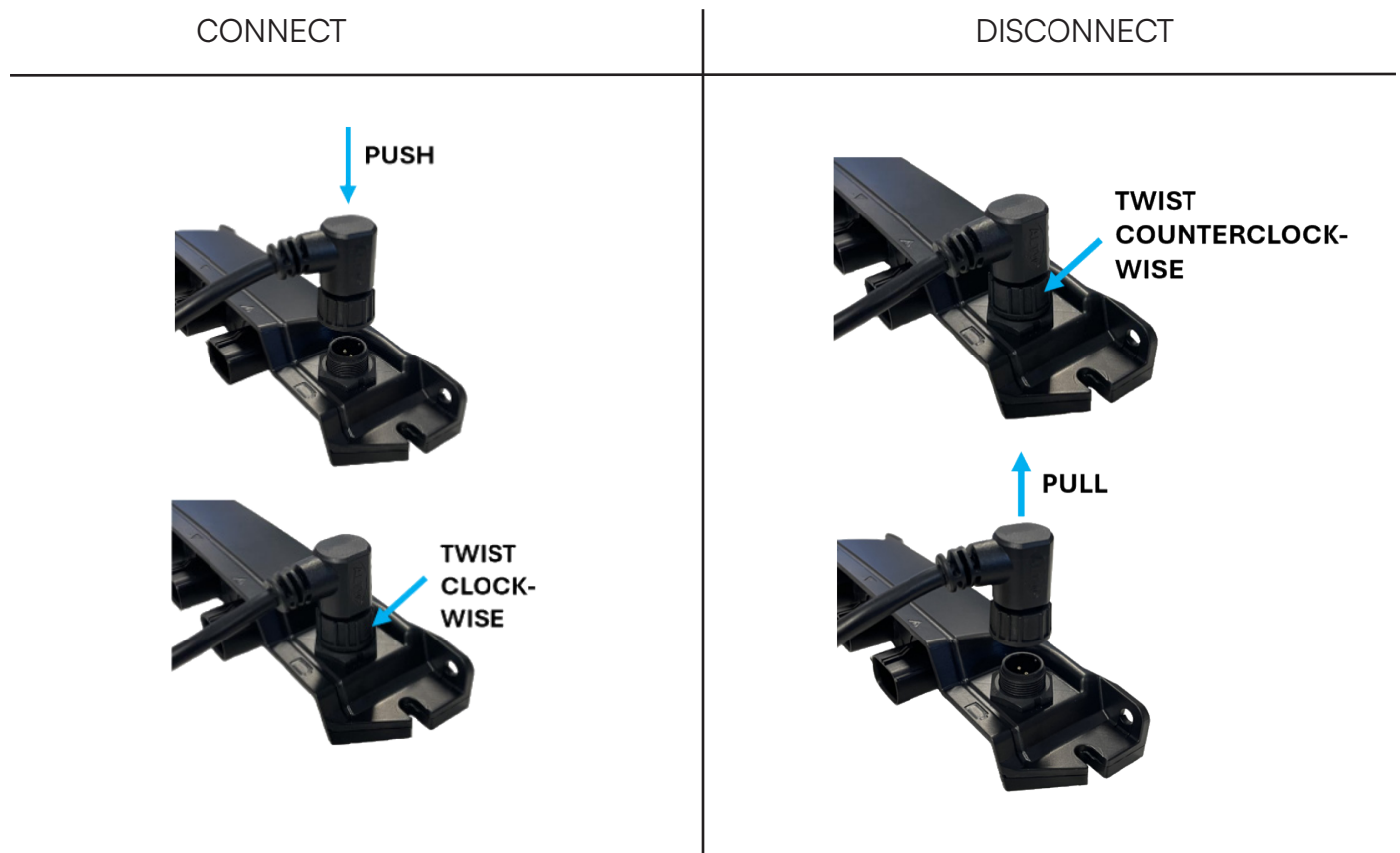


PINOUT		
CONNECTOR (VIEW 1)	PIN	FUNCTION
CIRCULAR CONNECTOR		
	1	GND
	2	+
HSD CONNECTOR		
	1	FPD_RIN0_P
	2	FPD_RIN1_P
	3	FPD_RIN0_N
	4	FPD_RIN1_N

3.2 Connector Mating Procedure

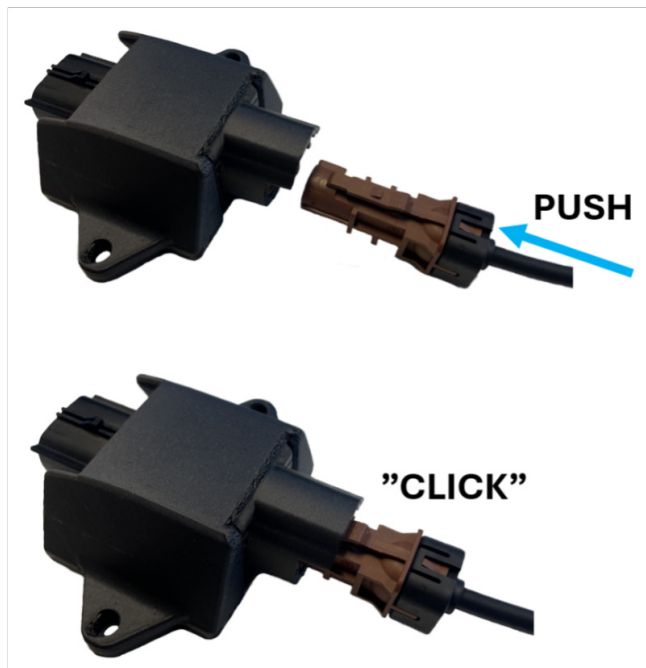
How to properly connect and disconnect each connector during installation.

3.2.1 CERES 2P

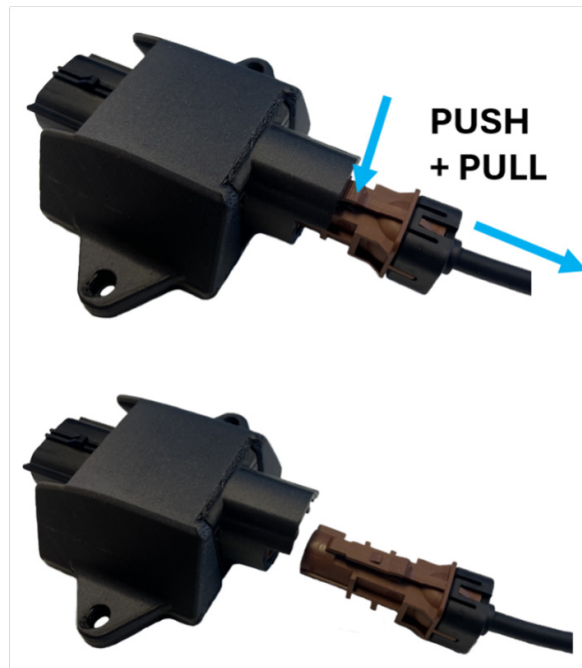


3.2.2 HSD

CONNECT

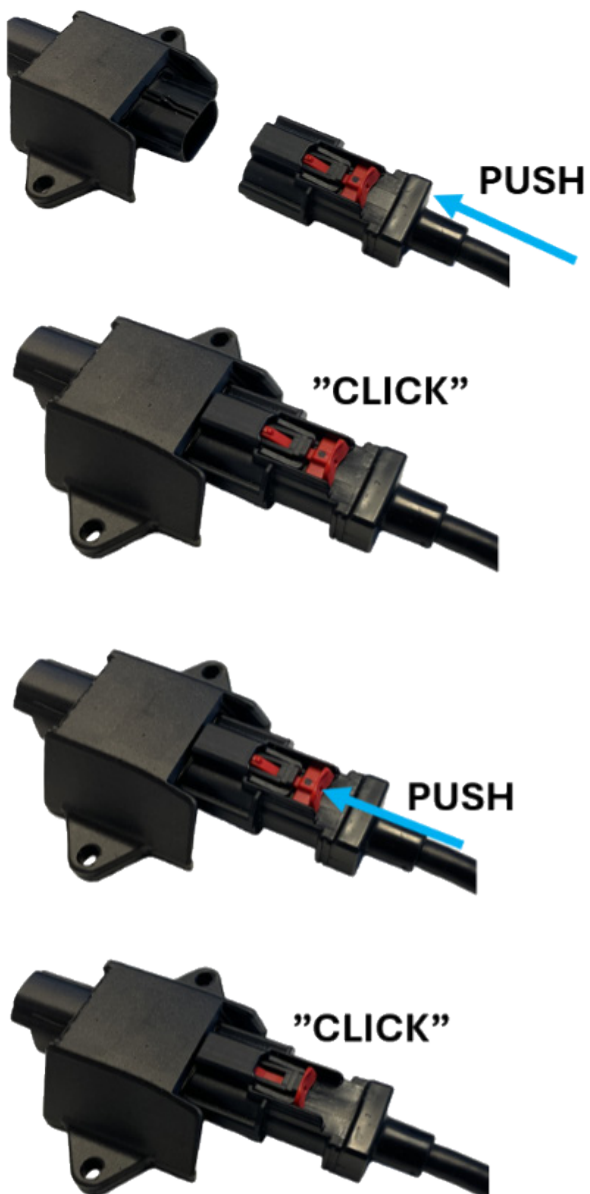


DISCONNECT

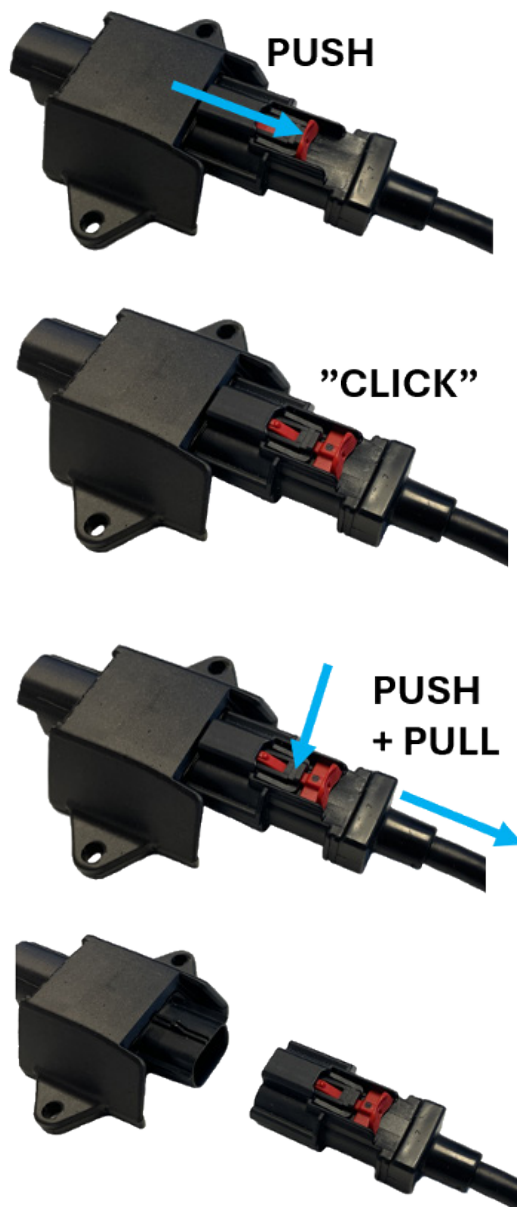


3.2.3 HSAL II

CONNECT

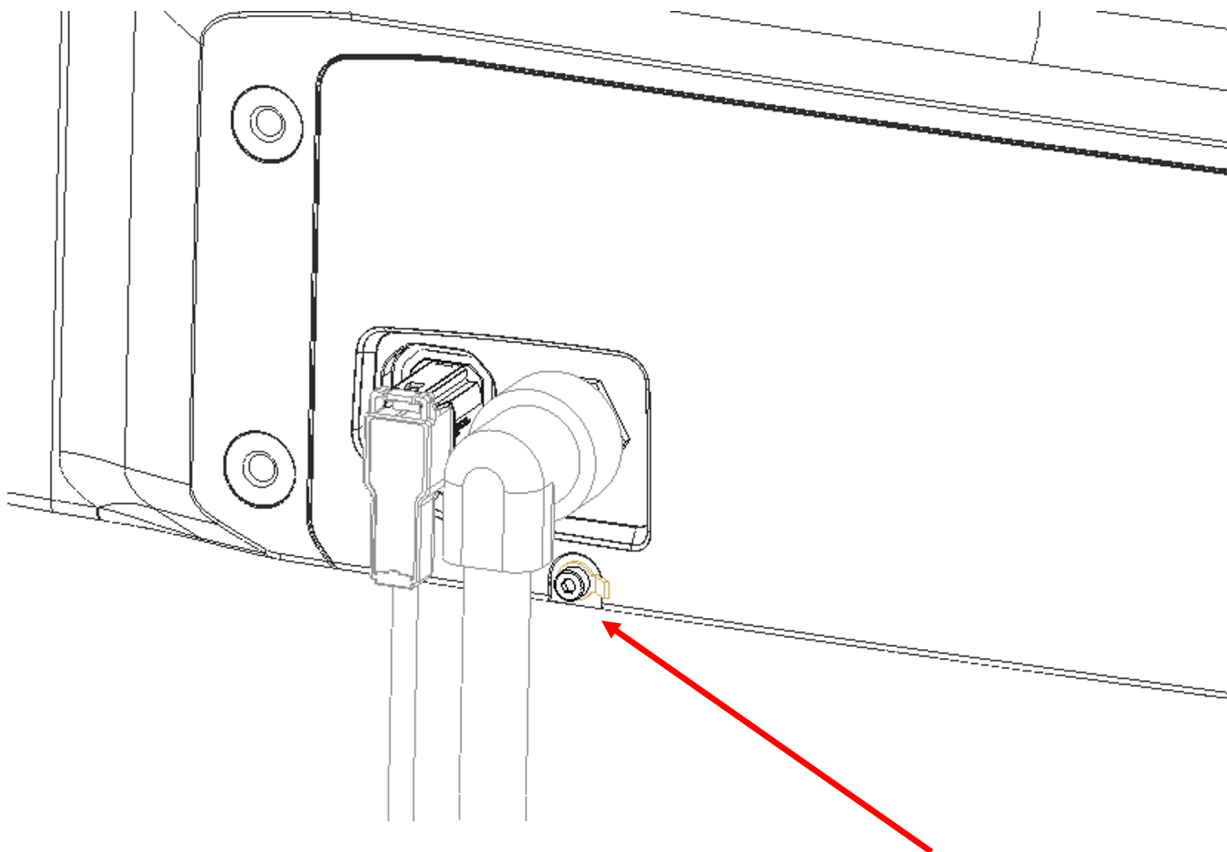


DISCONNECT



3.3 Wiring Installation

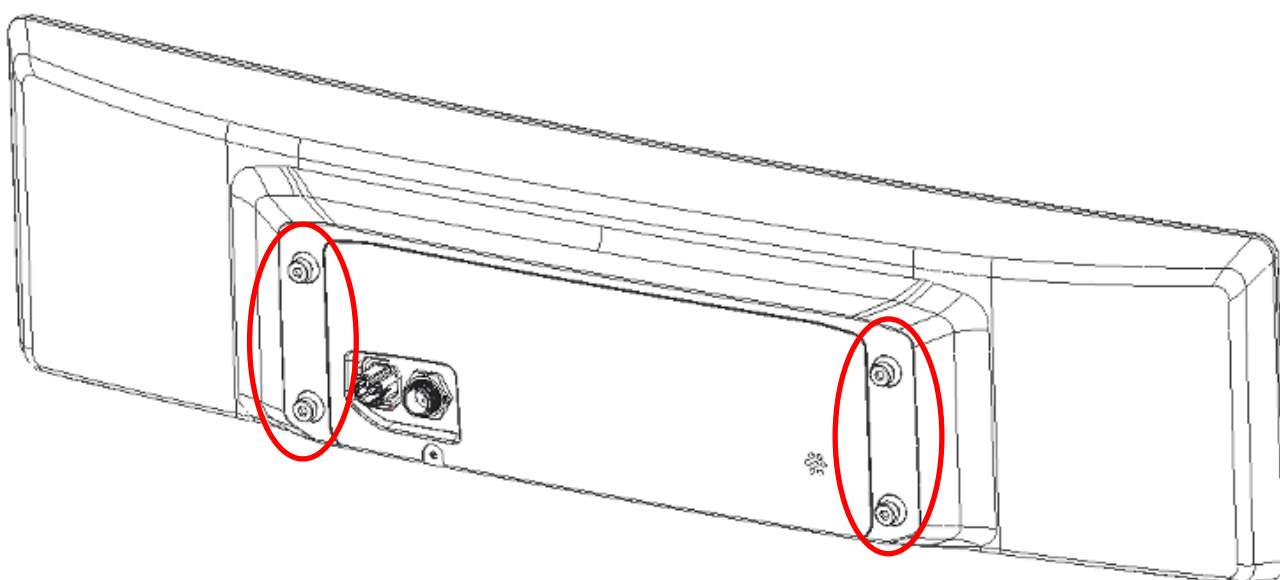
- Minimum cable bending radius: > 150 mm
- Cable strain relief is required to prevent stress on the connectors.
- Ground the display using the supplied M3x6 screw.
- Max torque: **0.6 Nm**
- M3 ring terminal and 0.75-1 mm² cable are required (not included).
- Connect the display ground to the chassis.



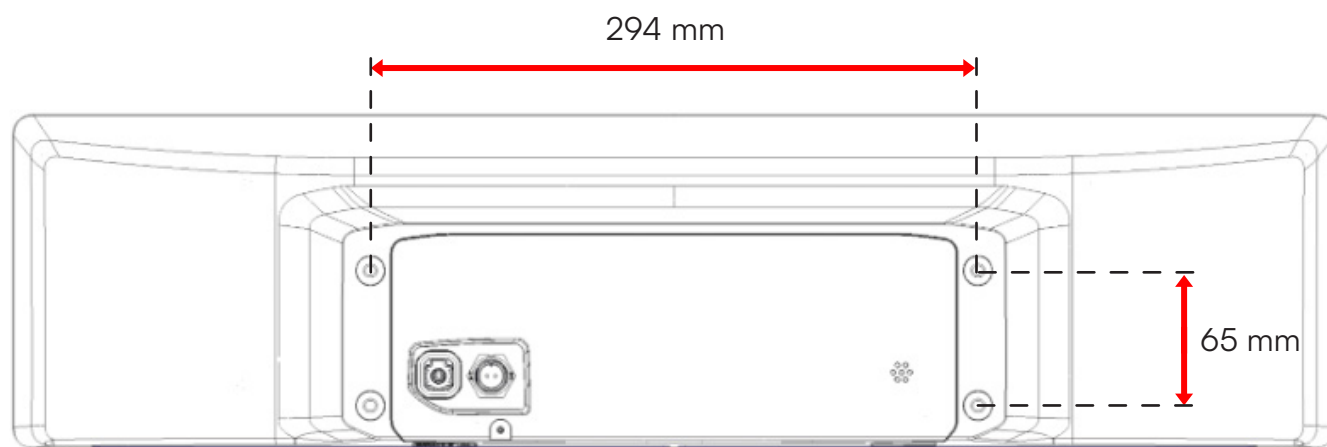
NOTE: M3 ring terminal and 0.75-1 mm² cable required for grounding

4. Mounting

BlackCanvas 24" must be mounted using the four threaded holes, as indicated below.



The centre-to-centre (C-C) spacing between the mounting holes is identical for both configurations and is 176 mm.



Mounting hardware:

- 4x M6x14 screws DIN 7984.

Installations Notes:

- Recommended tightening torque: **6 Nm**
- Required minimum thread engagement: **≥ 9 mm**
- Threaded hole depth: **13 mm**, do not bottom out the hole.
- Exceeding the specified torque may cause cracking or permanent deformation of the enclosure housing.
- Ensure that the mounting surface is parallel with the flats around each mounting hole to avoid stressing or deforming the housing. Check that the mounting surface is flat; it must not vary more than 0.5 mm in height across the entire contact area, otherwise the housing may bend or become damaged.