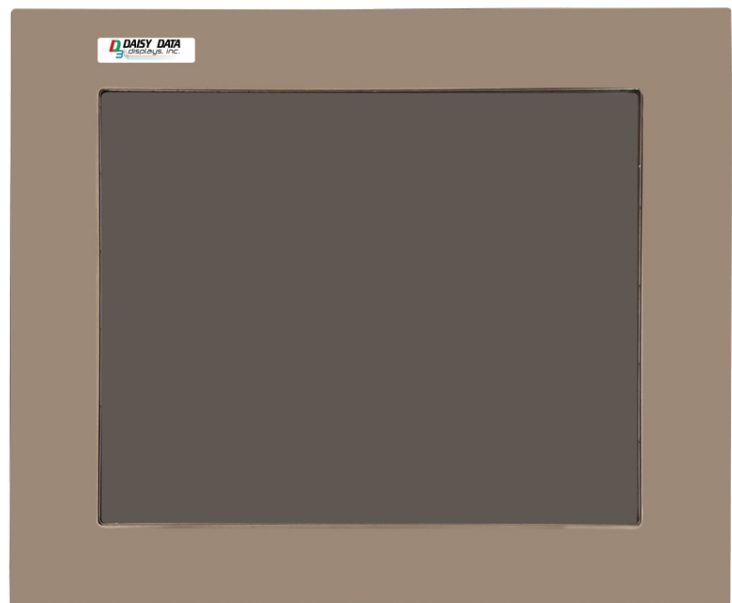




7191AD User Manual

June 2017



Daisy Data Displays, Inc.
2850 Lewisberry Road,
York Haven, PA 17370
Phone: 717.932.9999



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Some components may not have been manufactured by Daisy Data Displays, Inc. If not, Daisy has been advised by the manufacturer of the component that the component has been tested and complies with the Class A computing device limits as described above.

Daisy Data Displays, Inc.
2850 Lewisberry Road
York Haven, PA 17370 USA
Phone: (717) 932-9999
Fax: (717) 932-9000
www.makeitdaisy.com

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Initial Release

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Limited Warranty and Liability Statement

To the original purchaser, Daisy Data Displays, Inc., hereinafter referred to collectively as SELLER, warrants each of its manufactured products, and all components therein contained to be free from defects in materials and/or workmanship for a period of 12 months from the date of purchase.

Should a malfunction or other indication of defect attributable directly to faulty materials and/or workmanship occur, Seller will, at its option, and without charge to the customer for labor and parts, repair or replace the defective product, F.O.B. Seller's plant, but Seller will not be responsible for freight from Purchaser to Seller's plant. In no event shall Seller be liable for any loss, inconvenience or damage, whether direct, incidental, consequential or otherwise resulting from abuse, misapplication or modification of the product, improper or faulty power, damage resulting from repairs or alterations performed by unauthorized persons, or conditions resulting from any other equipment attached to the product.

Seller assumes no liability for damage occurring in transit due to the product not being returned in its original shipping material.

This warranty is exclusive and is in lieu of any warranty of merchantability or fitness for a particular purpose or other warranty of quality whether expressed or implied, except of title and against patent infringement. Correction of nonconformities, in the manner and for the period of time provided above, shall constitute fulfillment of all liabilities of the Seller to the Purchaser with respect to, or arising out of the goods, whether based on contract, negligence, strict tort or otherwise.

LIMITATION OF LIABILITY: The Seller shall not under any circumstances be liable for special or consequential damages, such as, but not limited to, damage or loss of other property or equipment, loss of profits or revenues, cost of capital, cost of purchased or replacement goods, or claims of customers of Purchaser for service interruptions. The remedies of the Purchaser set forth herein are exclusive, and the liability of Seller respect to any contract, or anything done in connection therewith such as the performance or breach thereof, of from the manufacture, sale, delivery, resale, installation or use of any goods covered by or furnished under this contract whether arising out of contract, negligence, strict tort or breach of warranty or otherwise, shall not, except as expressly provided herein, exceed the price of the goods upon which such liability is based.

This warranty gives you specific legal rights, and you may also have other rights, which vary from state to state. Seller makes every effort to provide clear and accurate technical information on the application of its products in the Operator's Manual, and assumes no liability for misuse of the information.

7191AD User Manual

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1. Introduction

Thank you for selecting a Daisy solution for your hazardous area operator interface needs. This manual contains drawings and component locations for installing and setting up Daisy Data flat panel operator interface systems. In addition, Daisy Data provides warnings, precautions, and methods to ensure that the electronic systems are safe for hazardous areas. This explains the theory behind the unique product and services provided by Daisy Data. Should you have any inquiries or concerns, please contact Daisy.



2. Applicable Ratings

National Electrical Manufacturers Association (NEMA) is the regulatory body that defines the criteria for electrical enclosures.

2.1. Applicable Ratings

NEMA defines a 4X enclosure as:

**...“Type 4X Enclosures constructed for either indoor or outdoor use to provide a degree of protection to personnel against access to hazardous parts; to provide a degree of protection of the equipment inside the enclosure against ingress of solid foreign objects (windblown dust); to provide a degree of protection with respect to harmful effects on the equipment due to the ingress of water (rain, sleet, snow, splashing water, and hose directed water); that provides an additional level of protection against corrosion; and that will be undamaged by the external formation of ice on the enclosure.”*

Please note that DAISY’s systems have been fully tested under the supervision of Factory Mutual (FM) to ensure compliance with the standards.

*Part of the NEMA definition of NEMA 4X Enclosures

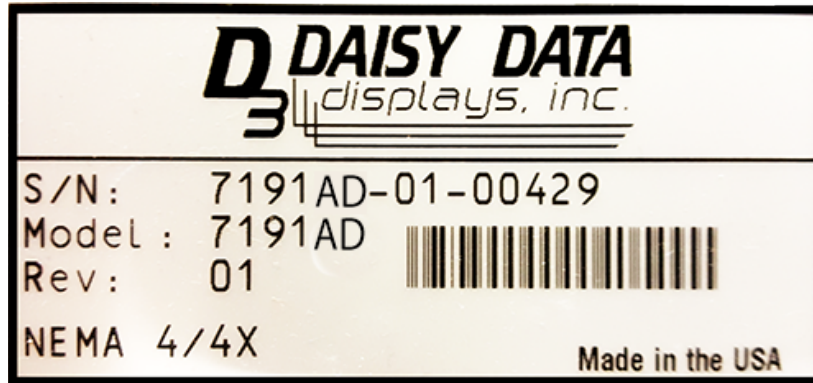
3. Customer Service

All Daisy systems pass detailed quality control configuration and inspection before being shipped. Daisy strives to create the highest quality systems, and chooses top quality parts. However, like most electronic devices, units may experience issues over time. Should you experience problems, or have any further inquiries or comments, please contact Daisy's customer service department:

Business Phone (717) 932-9999 x222
Fax (717) 932-8000
Email support@Makeitdaisy.com

Equipment returned to Daisy for service must be accompanied by a valid return merchandise authorization (RMA) number. Items or products shipped to Daisy without a valid RMA number will be refused. An RMA will be generated upon receipt of Company Name, Address, Contact, Product Model and Serial Numbers.

Typical Model/Serial Number Tag



Daisy Data Displays Inc. prides itself on offering best in class support for your products. Our technical support team can help you with installation, configuration, troubleshooting, and other support issues for all Daisy's products.

4. Software/Hardware

Daisy data should be contacted for any hardware or software questions/issues. Additional SSD's or operating systems can be supplied as needed. Be aware that any modifications or alterations without the assistance of Daisy Data could affect unit certifications and implied warranty.

5. 7191AD Specifications



Phone: 717.932.9999
 www.makeitdaisy.com
 2850 Lewisberry Road
 York Haven, PA 17370

FLEETMATE 7191AD SERIES | PANEL MOUNT NETWORK COMPUTER

This 19" Panel Mount X-Terminal is reliability and a necessity to your military operations. It is the perfect solution for your rack mount or panel mount applications.



STANDARD FEATURES AND BENEFITS

- Panel mount 19" color display has a resolution of 1280x1024 to fit your viewing needs.
- Integrated X-Terminal X11 release 6 compliant.
- Form, fit and function backwards compatible with model 7191AA, 7191AB & 7191AC.
- IPv6 and IPv4 compliant.
- Integrated 120 VAC or 24 VDC power supply.
- Integrated keyboard and mouse PS/2 ports, 100 Base T Network, RS 232 port (DB9).

- Glass-on-glass resistive touch screen and EMI window with enhanced, scratch-resistant hard coat meets MIL STD 461D and 462.
- 1.66GHz Intel, 19" Atom™ Processor 2GB RAM.
- Meets a variety of military standards including 810, 461 and 167.

OPTIONS AND ACCESSORIES

- Up to 16 GB RAM with i7 CPU upgrade.

FLEETMATE 7191AD SERIES SPECIFICATIONS

MATERIAL

Enclosure 304 Stainless Steel #4 Finish
Viewport Glass-on-glass Resistive Touch Screen
Design NEMA 4X Faceplate

Brightness (Standard) 240 cd/m²
Backlight CCFL/LED
Surface Treatment Glass surface hardness of 6.5 Mohs

PHYSICAL

19" 15.72" Height (H₁)
 14.00" Height (H₂)
 19.00" Width (W₁)
 17.50" Width (W₂)
 5.735" Depth (D)
Mounting Weight 17.70"x14.20" Cutout
 31 lbs.

TOUCH SCREEN SPECIFICATIONS

Technology Resistive, Glass-on-glass
Resolution 210,000 point/in.

X-TERMINAL SPECIFICATIONS

CPU Intel® Atom™ 1.66GHz
Storage (Standard) 2GB RAM
Hard Drive 4GB Solid State Drive

ENVIRONMENTAL

Operating Temperature 0° to 50° C
Storage Temperature -25° to 60° C
Vibration MIL-STD-167-1A Section 5.1, Type 1
EMI/RFI 90-264VAC, 47-63Hz, 130-370VDC, 100 watts

CONNECTIONS

Network 10/100/1000 Mbps Ethernet (RJ45), IPv4 compliant
Serial RS232 port (DB9)

ELECTRICAL

Voltage 90-264 VAC, 47-63 Hz or 18-36 VDC

ORDERING INFORMATION

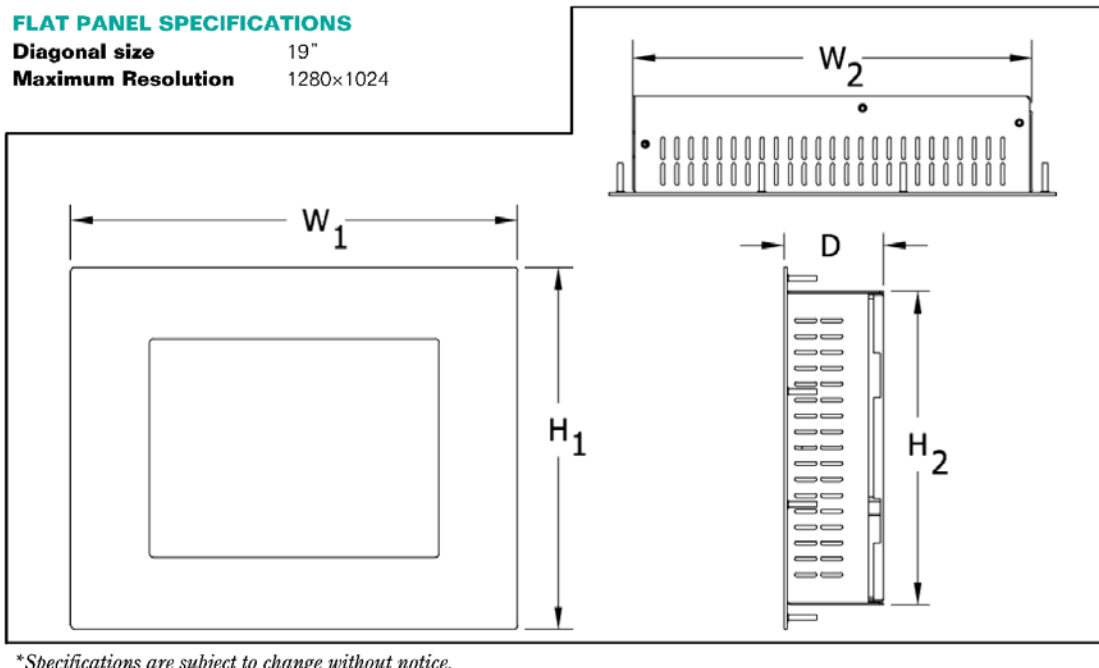
7191AD Panel Mount Network Computer, 19"

OPTIONS AND ACCESSORIES

247B Adds i7 Processor with 16GB RAM
813 24 VDC Input

FLAT PANEL SPECIFICATIONS

Diagonal size 19"
Maximum Resolution 1280x1024



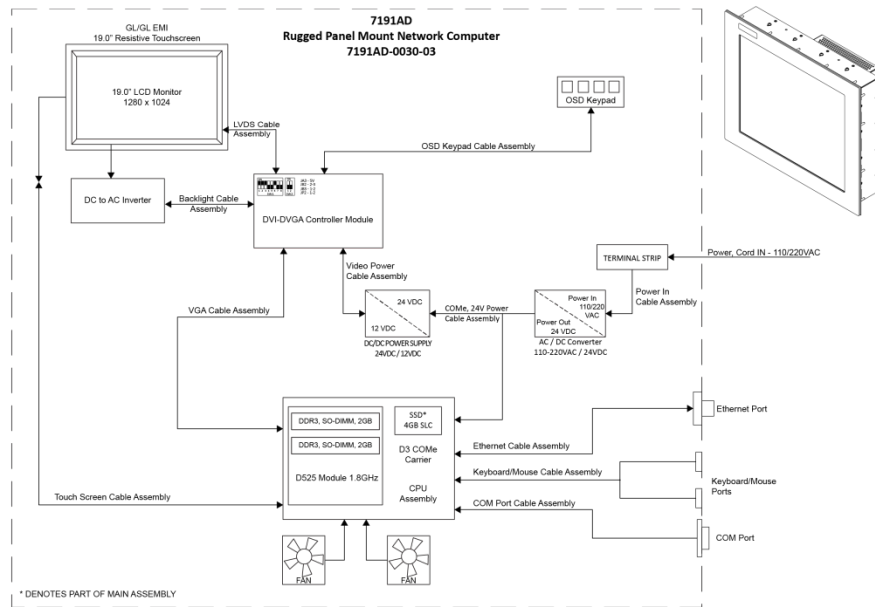
**Specifications are subject to change without notice.*

6. Component Identification

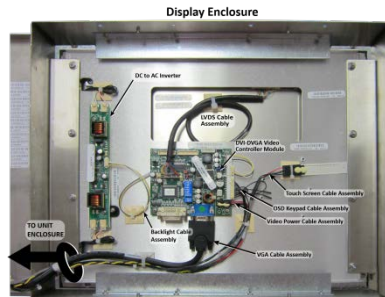
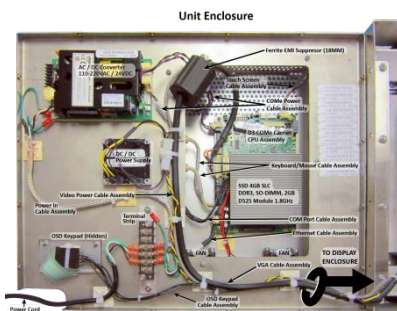
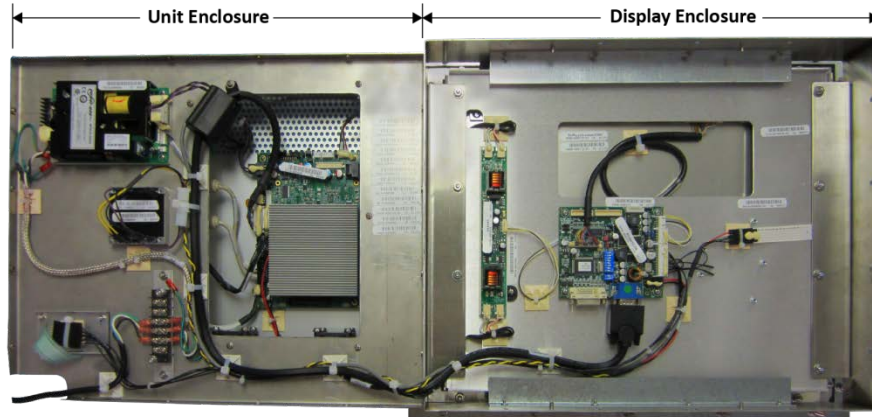
View the following block diagrams or photos to identify components of the 7191AD unit. For part numbers, go to [Component/Wiring Assembly Parts List](#)

7191AD COMPONENT/WIRING IDENTIFICATION

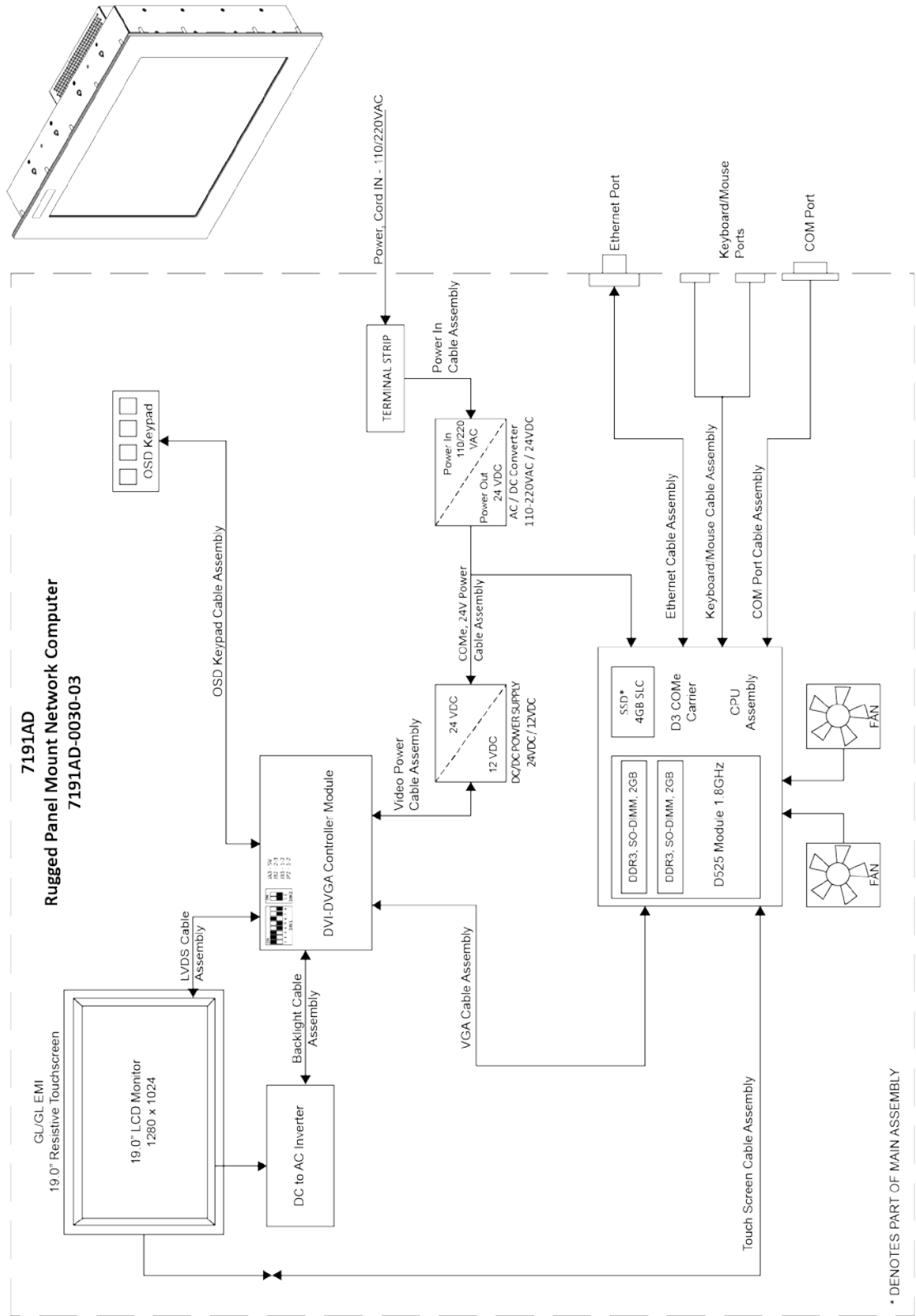
(Click on Thumbnails for detailed representation)



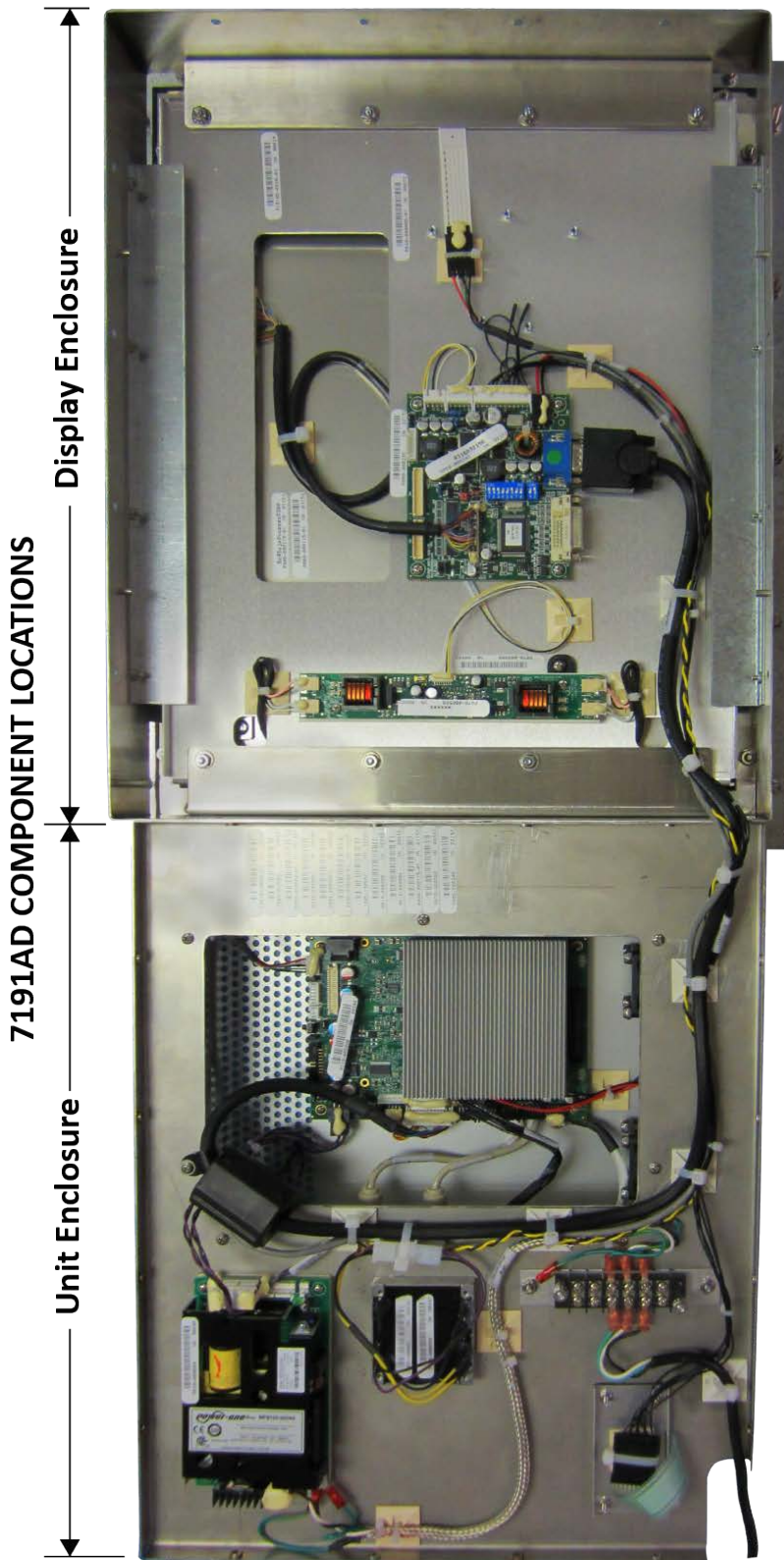
7191AD COMPONENT LOCATIONS



6.1. Unit Block Diagram

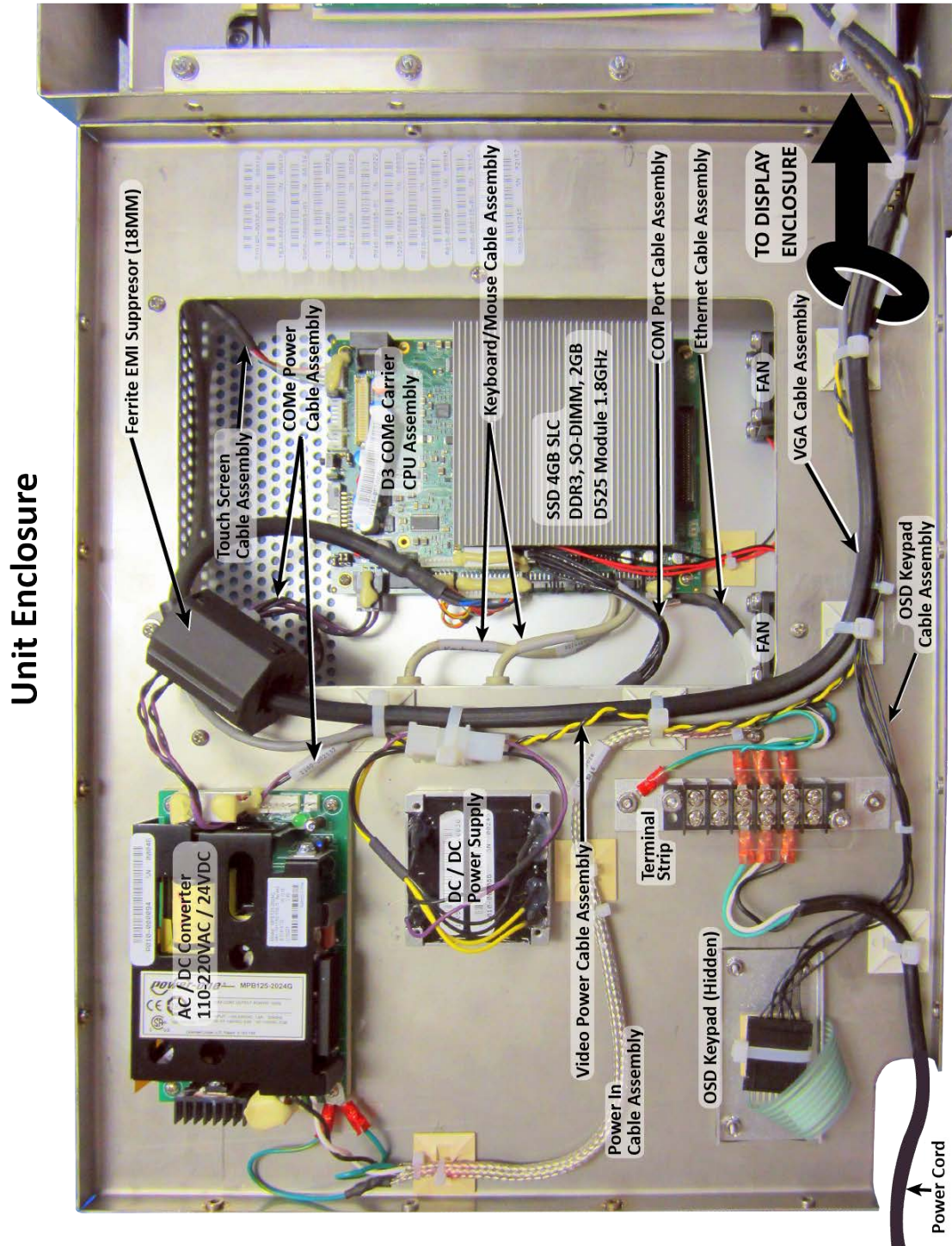


6.2. Unit Segments



6.3. Unit Enclosure

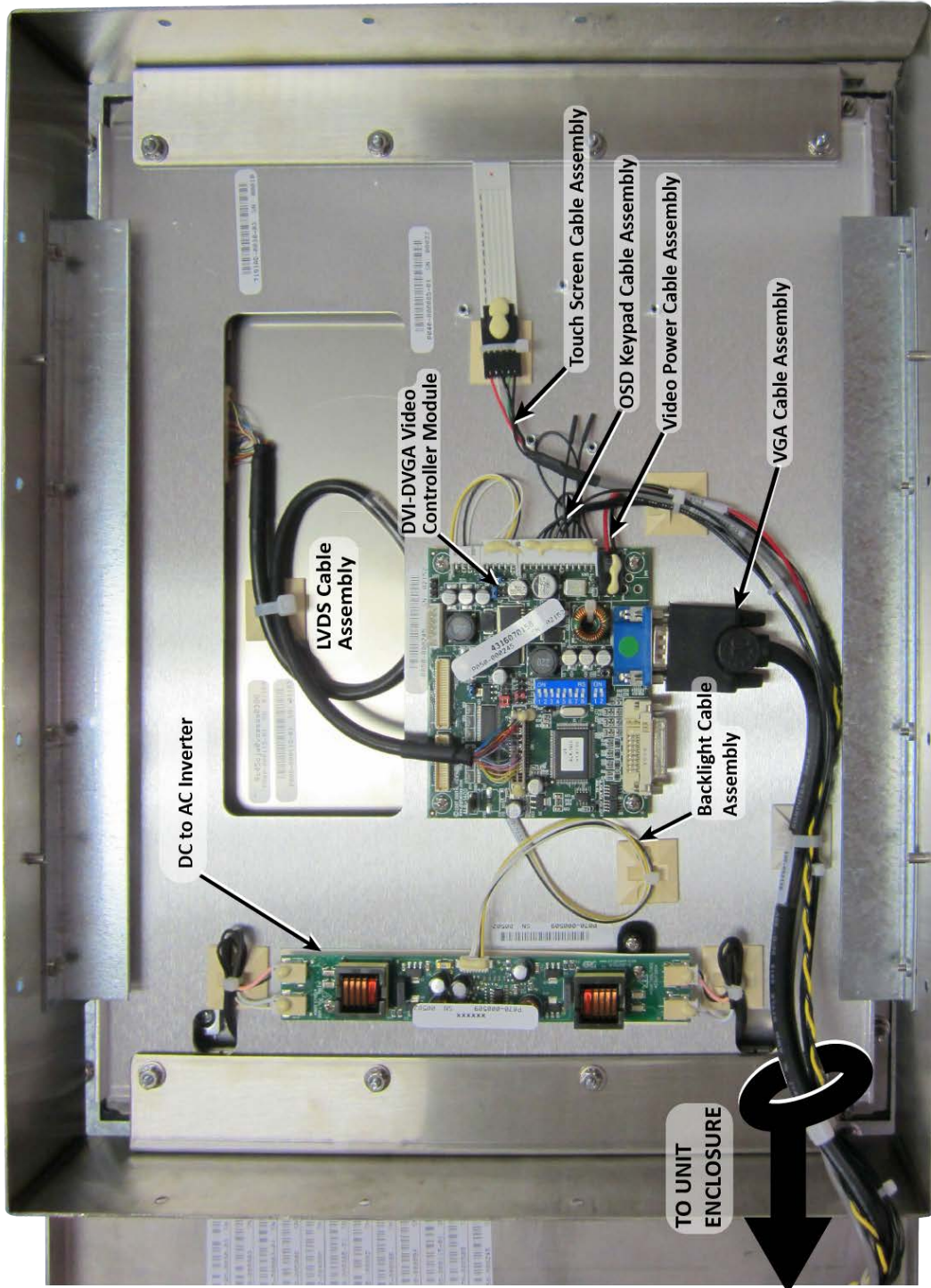
For part numbers, go to [Component/Wiring Assembly Parts List](#)



6.4. Display Enclosure

For part numbers, go to [Component/Wiring Assembly Parts List](#)

Display Enclosure



6.5. Component/Wiring Assembly Parts List

Should one or more of a unit's major components fail, please refer to the corresponding part number when ordering replacements or contacting Daisy Data Displays customer support.

6.5.1. Unit/Display Enclosure Component Parts List

COMPONENT	PART NUMBER
AC/DC CONVERTER 24V 12V 125W	P010-000094
DC/DC CONVERTER, 24DC 12DC	I205-100002
PA, PCA, COMe Carrier Board	P310-005000
Terminal Strip	I640-001168
Ethernet Port	I061-100001
COM Port	I100-002131
Keyboard/Mouse Connector	I100-002130
CPU Assembly	I630-000003
Fan (DC), Thermal Management (2)	E906-000058
Industrial Slim-SATA SSD 4GByte	P062-004000
DDR3, SO-DIMM, 2GB (2)	A314-312000
D525 Module 1.8GHz	P050-200003-01
DVI-DVGA Video Controller Module	P050-000245
DC to AC Inverter	P070-000509
19.0" LCD Monitor	P000-000115-01
19.0" Resistive Touchscreen	P040-000085
OSD Keypad, 4 SW (MENU, -, +, SEL)	I301-000029
Ferrite EMI Suppressor (18MM)	E904-000004

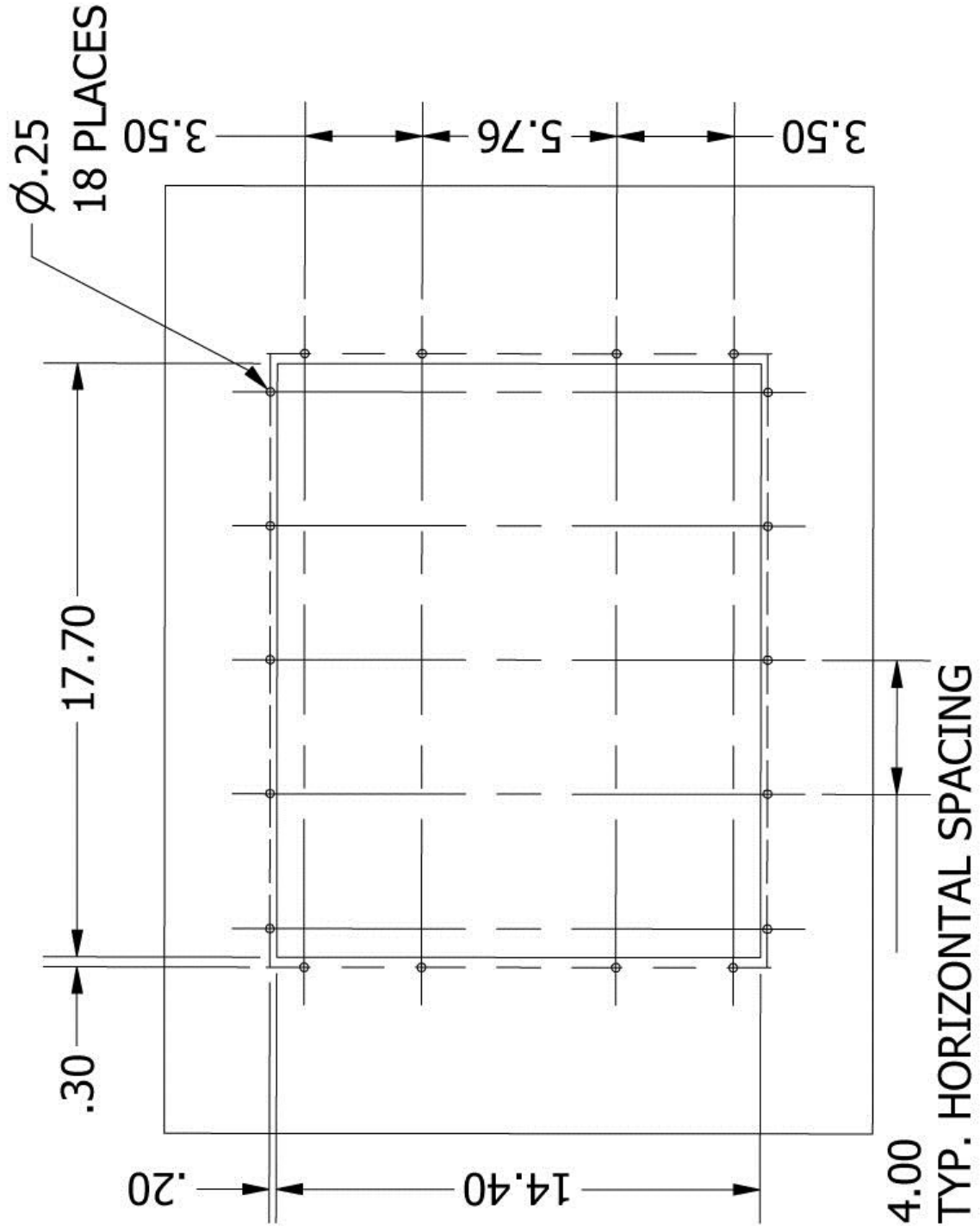
6.5.2. Unit/Display Cable Assembly Parts List

CABLE ASSEMBLY	PART NUMBER
Power Cord	E000-030000
Power In Cable Assembly	I100-001429
OSD Keypad Cable Assembly	I100-002204
Ethernet Cable Assembly	I100-002134
Keyboard/Mouse Cable Assembly	I100-002130
COM Port Cable Assembly	I100-002131
Video Power Cable Assembly	I100-001879
VGA Cable Assembly	I100-002128
Backlight Cable Assembly	P050-000580
LVDS Cable Assembly	P070-000568
Touch Screen Cable Assembly	I100-002129-01

7. Unit Installation/Mounting Diagram

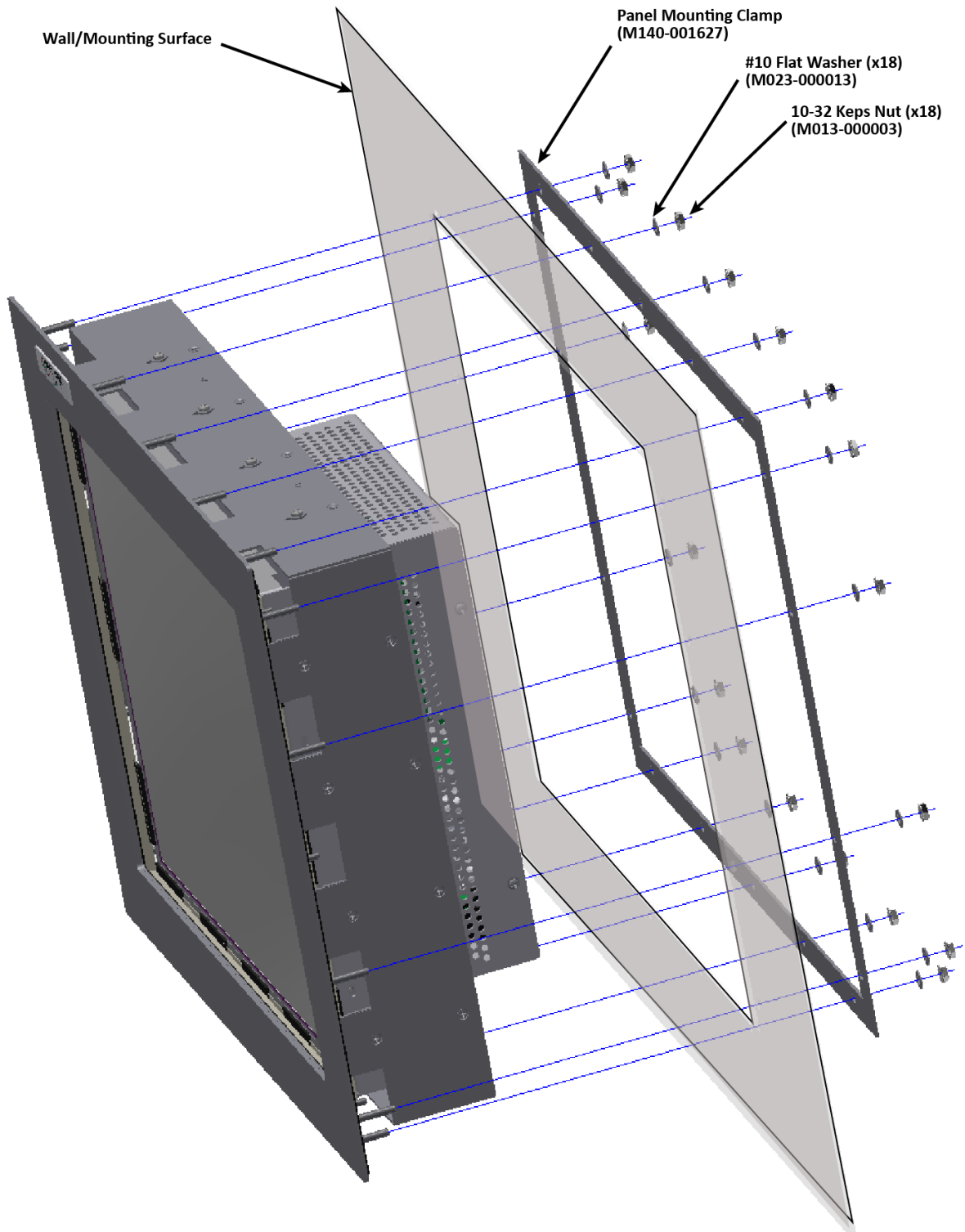
Refer to the following unit mounting diagrams for mounting hole placement and hardware usage.

7.1. Hole Mounting Diagram



7.2. Unit Mounting Placement/Hardware

Use supplied hardware to mount the unit.



8. Touch Screen Recalibration

Each 7191AD has its touch screen inspected and calibrated by a Quality Control technician before leaving Daisy Data Display's facility. However, over time, operators may find that the unit's touch screen becomes slightly inaccurate and using the human machine interface (HMI) becomes more difficult. If this occurs, the computer's touch screen software may simply need to be recalibrated. Follow the steps below to recalibrate your touchscreen:

1. In order to find the calibration application, from the desktop, click and hold the right mouse button and select **Configuration**.
2. Once the Configuration window opens, click on **Edit Settings**. Leave the password field blank, and select **Enter**.
3. On the next screen, select **X-Config** to start the touch screen calibration application.
4. Finally, follow each step of the on-screen instructions included in the calibration application to complete touch screen calibration.

If this does not resolve the inaccuracies, there may be a hardware issue which needs to be resolved. In this case, contact Daisy Data Customer Support at: (717) 932-9999.

9. Operating System

For information about the X Window System, including operations, and for accessing technical documentation, please visit: www.x.org/wiki/

10. Revision History

REVISION	CHANGE DESCRIPTION	DATE	AUTHOR
-	Initial Release	6/9/2017	BM

