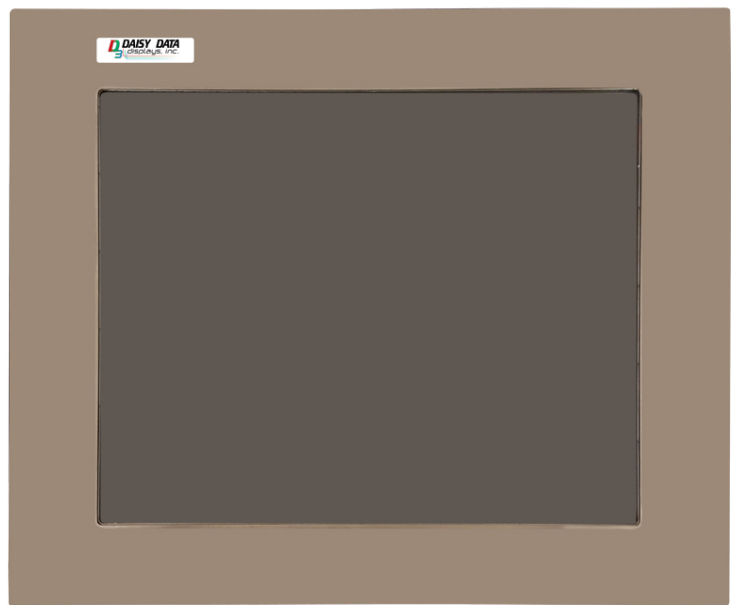




# 7191AC User Manual

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June 2017



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



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## **FCC WARNING**

Computing devices and peripherals manufactured by Daisy Data Displays generate, use, and can radiate radio frequency energy, and if not installed and used in accordance with the instructions in this manual may cause interference to radio communications. Such equipment has been tested and found to comply with the limits for a Class A computing device pursuant to Subpart J of Part 15 of the FCC Rules, which are designed to provide reasonable protection against radio interference when operated in a commercial environment. Operation of this equipment in a residential area is likely to cause interference, in which case the user - at his own expense - will be required to take whatever measures may be required to correct the interference.

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.

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**June 2017**  
**Manual Revision 2**

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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.

# 7191AC 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

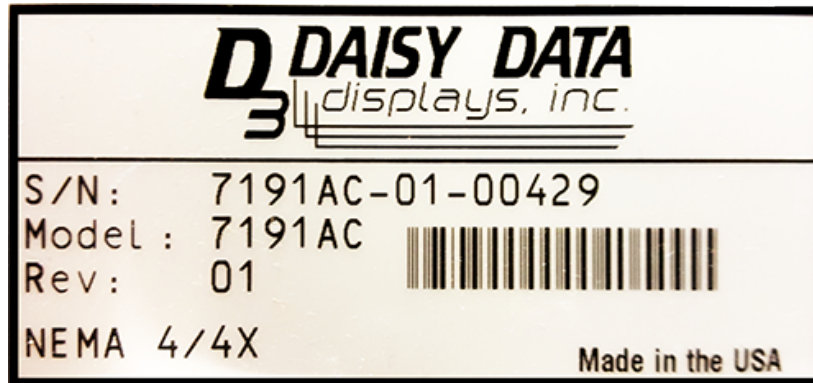
### 3. Customer Service

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](mailto: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.

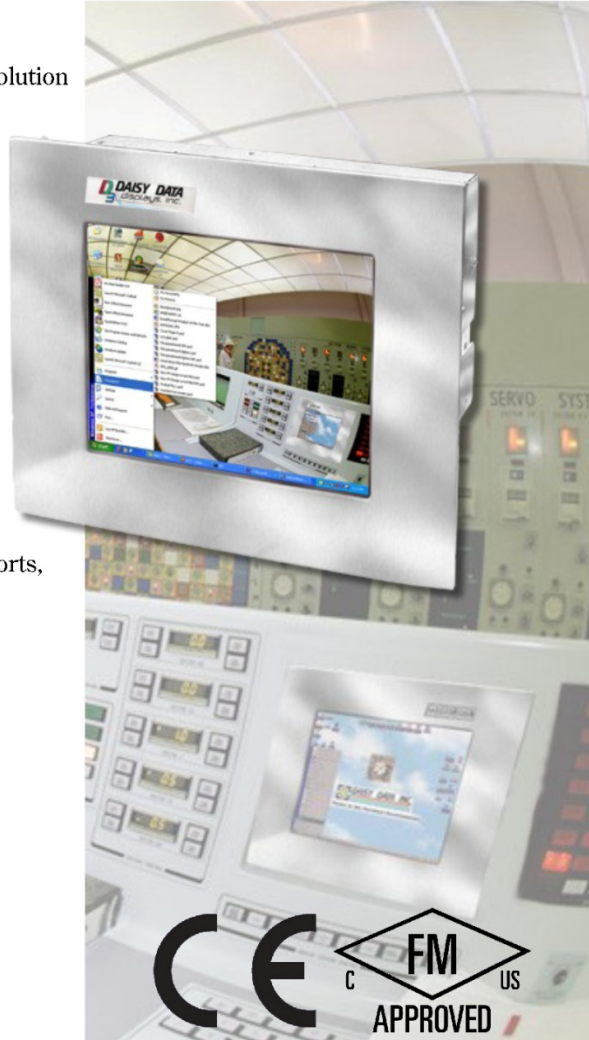
## 5. Specifications Sheet

# LABMATE THIN CLIENT PANEL MOUNT DESIGN

## SERIES 7191AC

### Standard Features and Benefits

- Panel Mount 19" color display has a resolution of 1280x1024 and color depth to 24 bit.
- Integrated X-Terminal X11R6 compatible.
- Form, fit and function backwards compatible with model 7191AA & 7191AB.
- IPv6 and IPv4 compliant.
- Integrated 120VAC power supply.
- Glass-on-Glass resistive touch screen and EMI window with enhanced, scratch-resistant hard coat meets MIL STD 461D and 462.
- Integrated keyboard and mouse PS/2 ports, 100 Base T Network, RS232 port (DB9)
- Celeron M Processor at 1.3 Ghz.



**DAISY DATA**  
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717.932.9999

Fax: 717.932.8000 [www.d3inc.net](http://www.d3inc.net)  
2850 Lewisberry Road, York Haven PA 17370

**Specifications**

**MATERIAL**

<b>Front Panel</b>	304 Stainless Steel #4 Finish
<b>Viewport</b>	Glass-on-Glass Resistive Touch Screen
<b>Design</b>	NEMA 4X Faceplate

**PHYSICAL**

<b>Dimensions</b>	15.72" Height (H <sub>1</sub> ) 14.00" Height (H <sub>2</sub> ) 19.00" Width (W <sub>1</sub> ) 17.50" Width (W <sub>2</sub> ) 5.735" Depth (D)
<b>Mounting</b>	17.70" x 14.20" Panel mount cutout
<b>Operating Temperature</b>	32° to 104°F
<b>Storage Temperature</b>	-4° to 140°F
<b>Weight</b>	18 lbs.
<b>Vibration</b>	MIL-STD-167-1A Section 5.1, Type1
<b>EMI/RFI</b>	MIL-STD-461

**ELECTRICAL**

<b>Required Power Supply</b>	90-264VAC, 47-63 Hz, 130-370VDC, 100 watts
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**DISPLAY SPECIFICATIONS**

<b>Diagonal Size</b>	19"
<b>Resolution</b>	1280x1024
<b>Color Depth</b>	24 Bit
<b>Brightness</b>	240 cd/m <sup>2</sup>
<b>Surface Treatment</b>	Glass surface hardness of 6.5 Mohs

**TOUCH SCREEN SPECIFICATIONS**

<b>Technology</b>	Resistive, Glass-on-Glass
<b>Resolution</b>	210,000 points/inch

**X-TERMINAL SPECIFICATIONS**

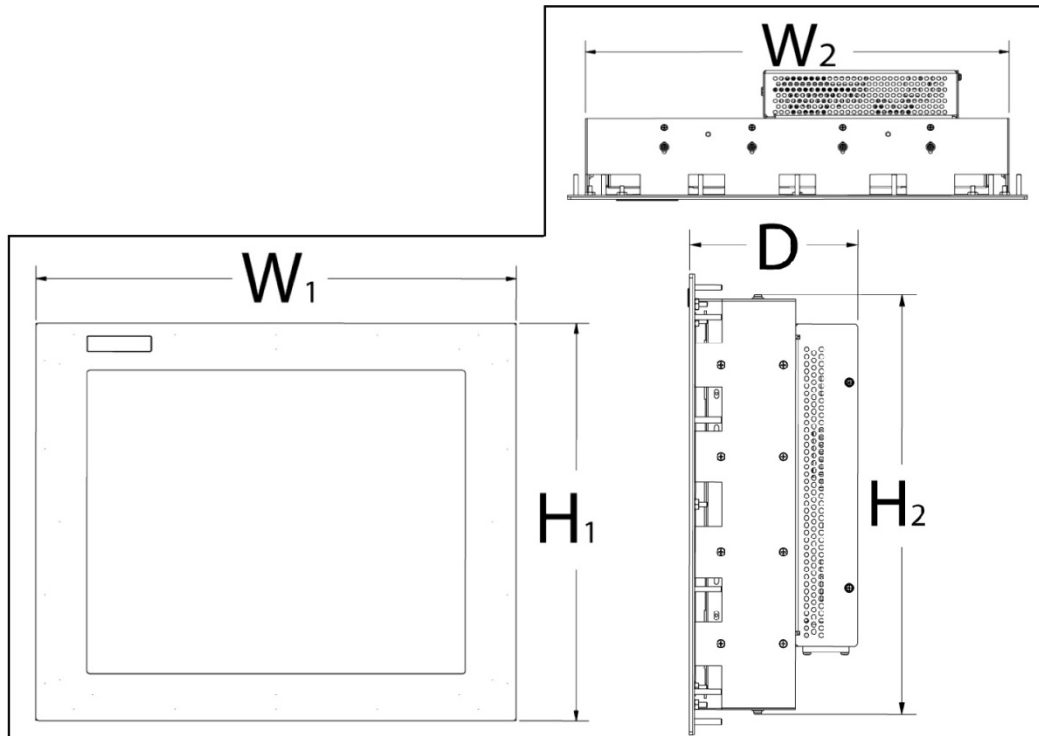
<b>CPU</b>	Celeron M 1.3 GHz
<b>Storage (Standard)</b>	256MB RAM
<b>Hard Drive</b>	1GB Compact Flash

**CONNECTIONS**

<b>Network</b>	10/100 Base T (RJ45), IPv6 & IPv4 compliant
<b>Serial</b>	RS232 port (DB9)

**ORDERING INFO**

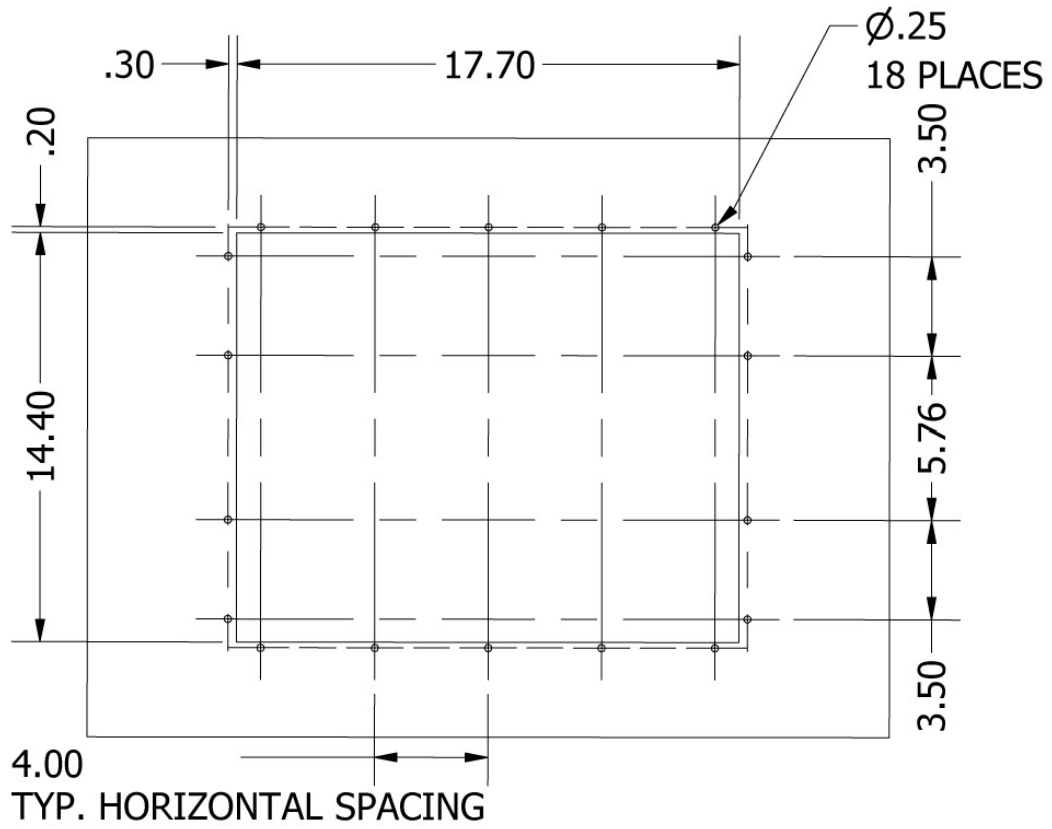
7191AC...Panel Mount Monitor & X-Terminal, 19"



\*Specifications are subject to change without notice.



**Specifications**  
CUTOUT DRAWING



## 6. Callouts

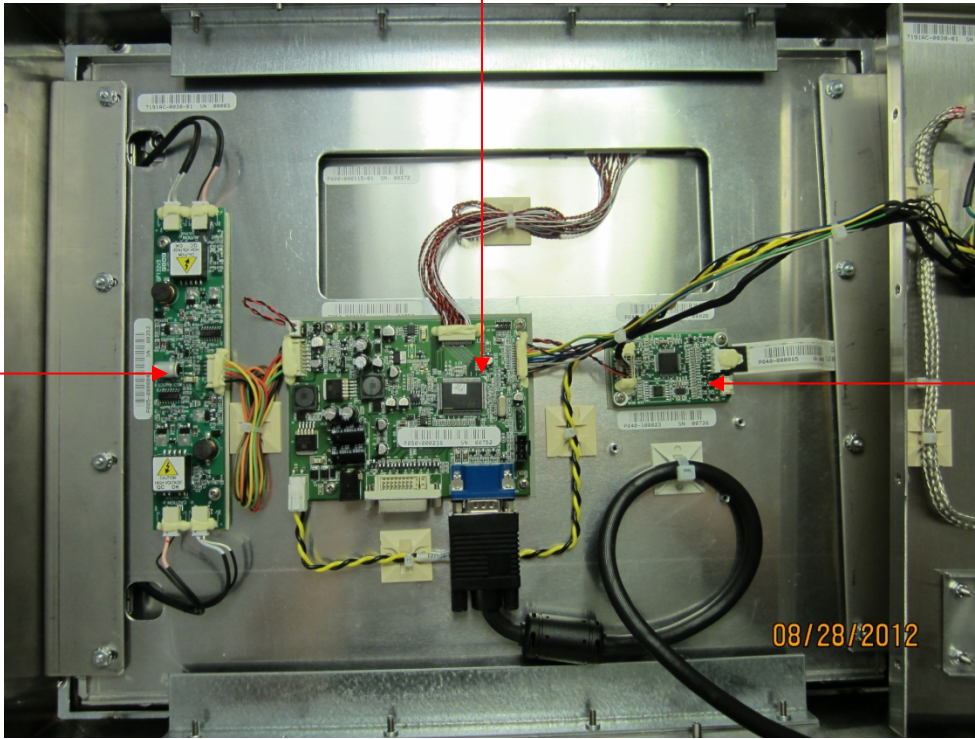
**Note:** Port layout may change. This depiction may not be the latest configuration. Actual configuration is labeled directly on the unit.

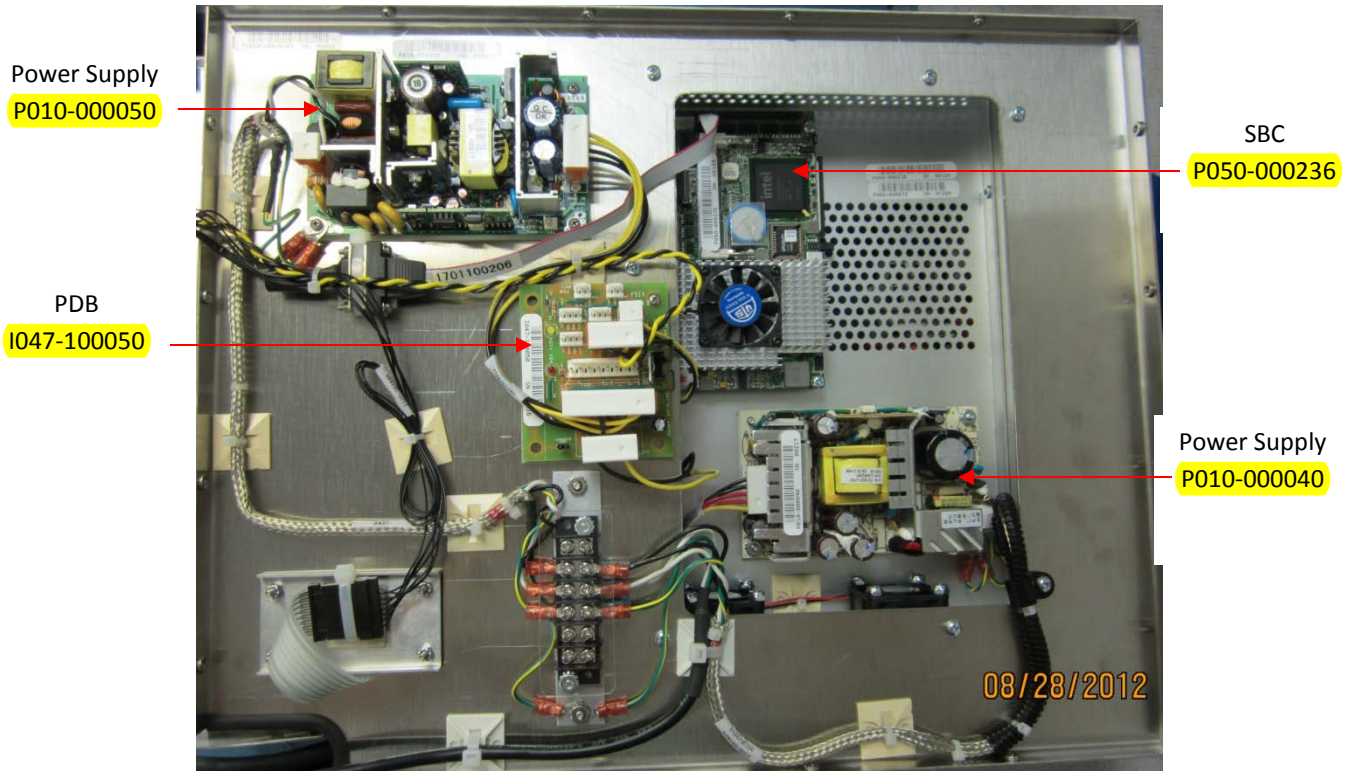
Please refer to the following photographs to identify individual components of the 7191AC unit, along with the manufacturer part numbers.

Video Card  
P050-000238

Inverter  
P005-000004

Touch Screen  
Controller  
P040-100023





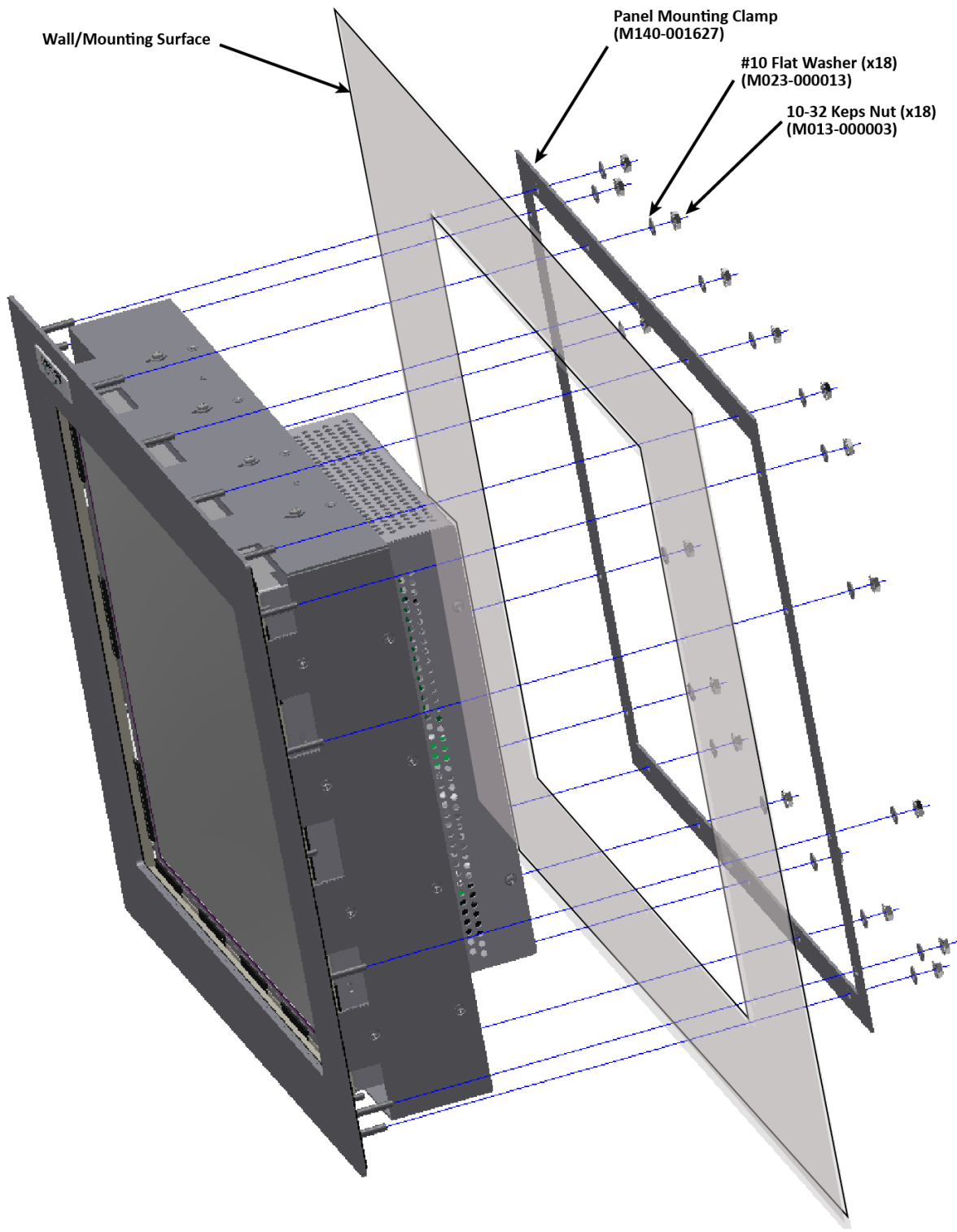
## 7. Replacement Parts List

Should one or more of a unit's major components fail, please refer to the corresponding manufacturer part number when ordering replacements or contacting with D3 customer support.

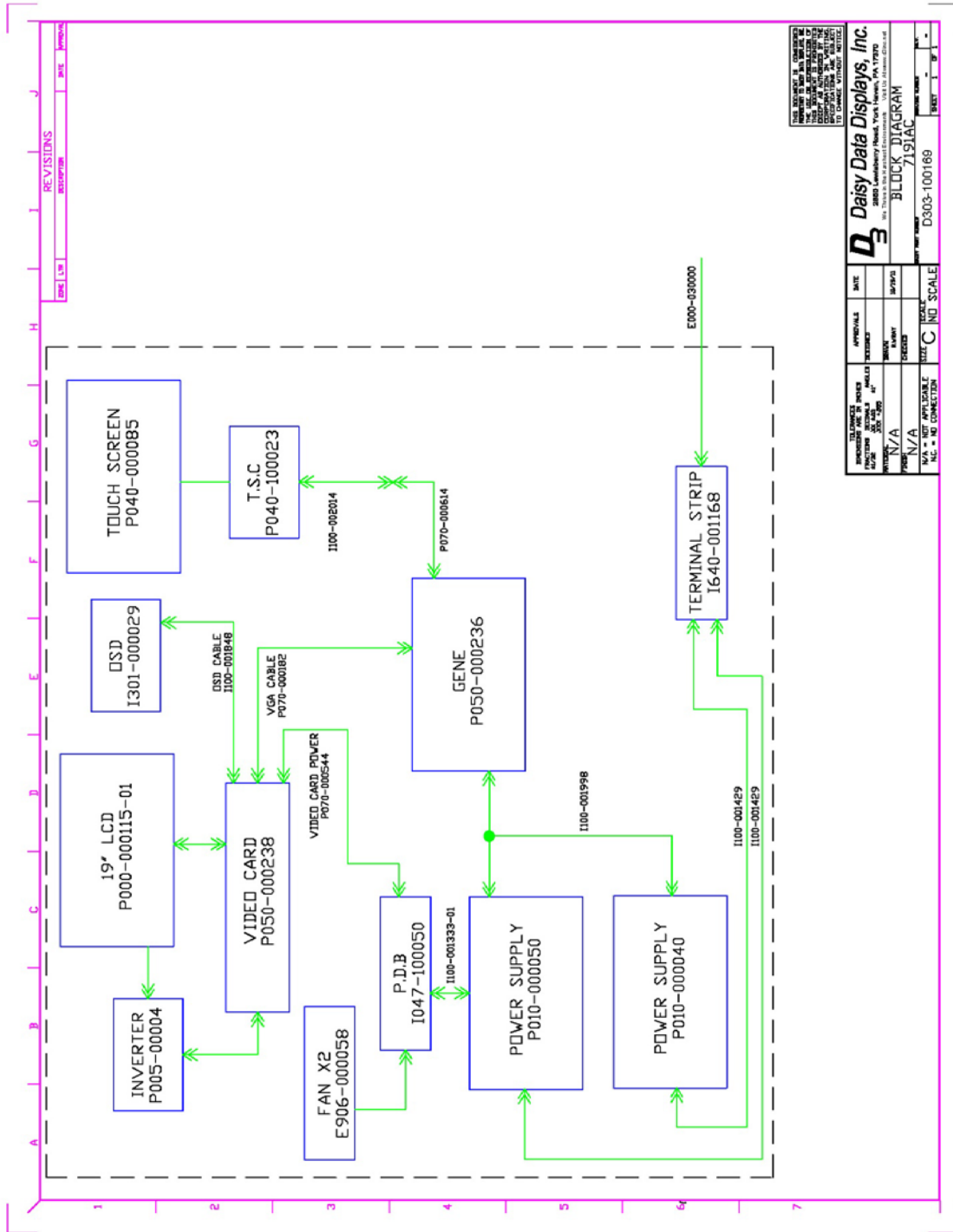
Part Type	Part Number
Power Supply – 12VDC,10.8A, 130W	P010-000050
Power Supply – 12V, 5A, 65W	P010-000040
Power Distribution Board	I047-100050
Single Board Computer – GENE-8310 1.3GHz	P050-000236
Video Card & Cable Kit	P050-000238
Glass-on-Glass Resistive Touch Screen	P040-000085
Resistive Touch Screen Controller	P040-100023
Display Inverter	P005-000004
Display – 19" AUO LCD	P000-000115-01
Compact Flash Hard Drive – 4GB	P060-000072

## 8. Mounting Diagram

Use supplied hardware to mount unit to surface. Refer to the cutout drawing for hole spacing.



### 9. Electrical Block Diagram



<b>Daisy Data Displays, Inc.</b> 10000 W. 10th Ave., Suite 100 Denver, CO 80202 (303) 751-1111 FAX: (303) 751-1112 WWW.DAISYDATA.COM		DATE: _____ APPROVALS: _____ CHECKED: _____ DRAWN: _____ DESIGNED: _____ PARTS: N/A MFG. = NOT APPLICABLE NC. = NO CONNECTION
BLOCK DIAGRAM 7191AC		D303-100169 SCALE: C IND. SCALE: _____ SHEET: _____ OF _____

## 10. Operating System

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

## 11. Touch Screen Recalibration

Each 7191AC has its touch screen inspected and calibrated by a Quality Control technician before leaving D3's facility. However, over time, operators may find that the unit's touch screen becomes slightly inaccurate and using the human machine interface becomes more difficult. If this occurs, the computer's touch screen software may simply need to be recalibrated. This process is easy and straightforward. Follow the steps below:

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 D3 customer support at: (717) 932-9999.

## 12. Revision History

REVISION	CHANGE DESCRIPTION	DATE	AUTHOR
-	Initial Release	12/4/2012	RP
1	Updated with new Daisy Data Documentation template	6/1/2017	BM
2	Revised NEMA 4X Rating Classification, Updated Mounting Hardware Diagram, Removed Mounting Clearance Resolution	6/9/2017	BM





