

MOVING iMAGE TECHNOLOGIES

INSTRUCTIONS

FOR

INSTALLATION, OPERATION, AND MAINTENANCE

OF

Power Distribution Interface

Part number A000176-xxx

Manual Version 1.5

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Manual

Power Distribution Interface

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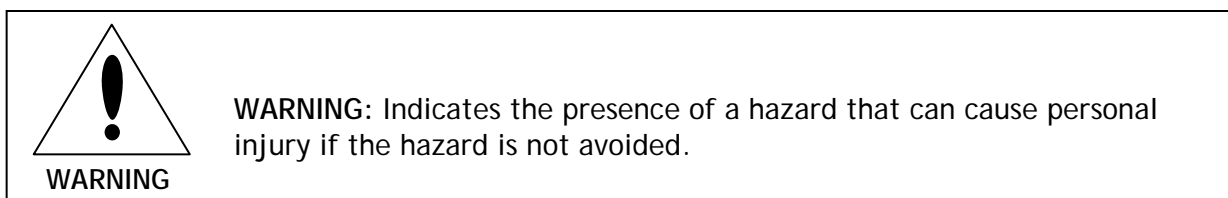
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1. INTRODUCTION

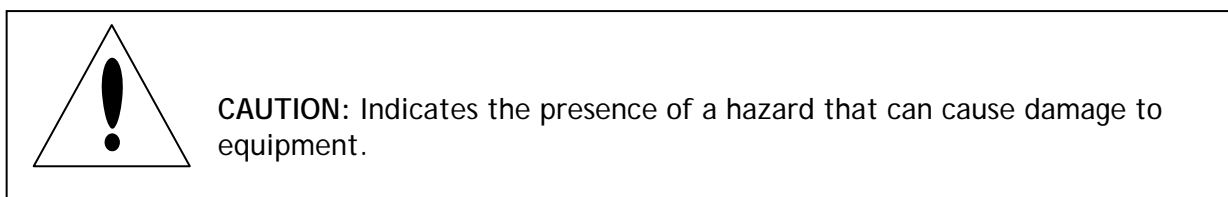
1.1 SPECIAL NOTICES

Two kinds of specific notices are used within this manual to emphasize information.

1.1.1 Warning



1.1.2 Caution



1.2 SAFETY

- ✓ Always disconnect the AC lines before working on anything inside the unit.

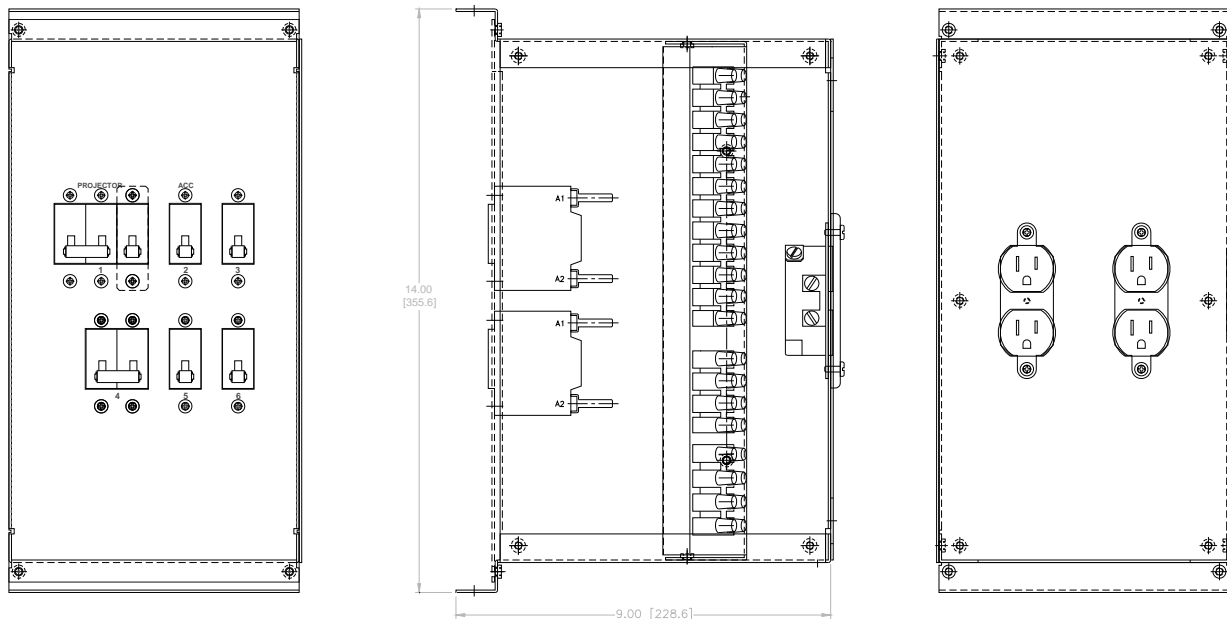
2. GENERAL DESCRIPTION

The MiT Power Distribution Unit accepts AC power from the building load center, and provides connection points for a D-cinema projector and other accessories. It consists of approved terminal blocks, breakers and wiring in an approved enclosure. The module may be mounted at various locations in or around a cinema console or pedestal. There are different versions of the unit available, depending on the specific power distribution requirements.

The standard Power Distribution Unit model is intended to support one digital projector and its accessories. Its specifications are as follows:

- Internal wiring accepts connection to 3-phase service of 40A, up to 60A max.

The MiT Power Distribution Unit is intended to be used as part of an installation performed by personnel with appropriate training. **The technical information in this manual is provided for use by certified electricians and other installation personnel ONLY.** See Section 3 for electrical connection and other installation information.



Outline

3 INSTALLATION



CAUTION: Users are urged to read this instruction manual thoroughly and understand the procedures described herein before assembling and installing the system.

3.1 Electrical Wiring



CAUTION: National and Local electrical codes should be observed at all times.

Also see the figure of the terminal blocks I/O on page 6 and the wiring diagram in the Appendix (page 11).

3.1.1 AC Supply Connections

The unit requires one three-phase power feed including neutral and ground. The unit is intended to be permanently hard-wired in a theatre. Approved conduit and fittings should be used to route the wires to the unit. Several knockouts are provided in the enclosure to facilitate connections. AC supply and load connections are made at TB1, TB2, and TB3 by removing the rear cover of the unit. See Table 3-1 for recommended wire gauges.

3.1.2 AC Service

See Table 3-1 for electrical service requirements and recommended wire gauge.

TABLE 3-1: AC Service

Input	Service Amps	Recommended wire gauge, minimum
L1, L2, L3: 208V 3 phase (or 400V for int'l version)	40 (typical) 60 (max)	8 AWG 6 AWG
Neutral	30	10 AWG

3.2 AC Load Connections

TB2 provides the connections to other portions of the system, as follows:

1. Breaker #1, Projector power phase L1
2. Breaker #1, Projector power phase L2
3. Breaker #1, Projector power phase L3 (on 3-pole systems only)
4. Breaker #2, Accessories and AC receptacle
5. Neutral
6. Breaker #3, Exhaust/Masking and AC receptacle
7. Breaker #4, AC out to Dimmer, pole 1
8. Breaker #4, AC out to Dimmer, pole 2
9. Neutral
10. AC supply to Dimmer breaker, pole 1
11. Neutral
12. AC supply to Dimmer breaker, pole 2

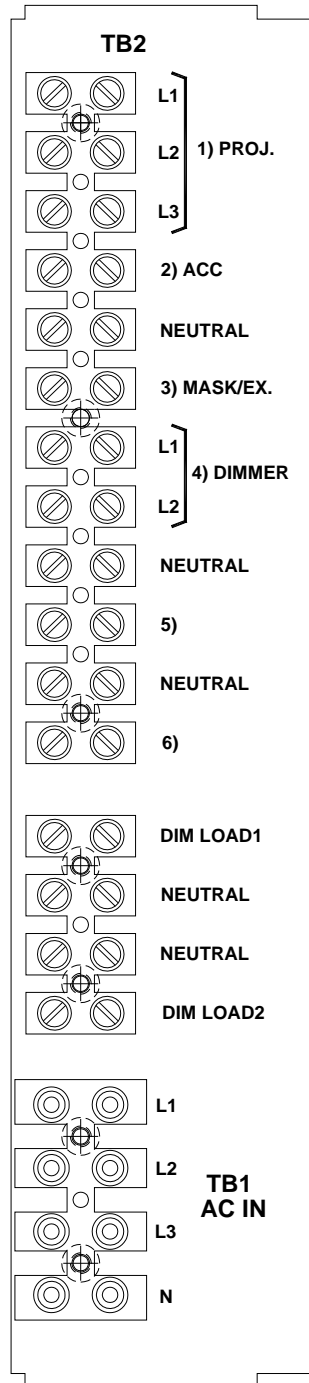
Note: no pre-wired connections are provided to spare breakers 5 and 6.

The AC cord for the projector is normally wired at the factory, also the dimmer (if installed).

3.3 AC Dimmer Load Connections

TB3 provides a connection point for the output or load side of the dimmer, as follows:

1. Output, Dimmer load channel 1
2. Neutral
3. Neutral
4. Output, Dimmer load channel 2



AC Interface Panel

Appendix A

Appendix A: Assembly Diagrams, Schematics and Parts Lists

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REPLACEMENT PARTS LIST

PE00035-015	Circuit Breaker, 1-pole, 15A
PE00035-020	Circuit Breaker, 1-pole, 20A
PE00364-015	Circuit Breaker, 2-pole, 15A
PE00364-020	Circuit Breaker, 2-pole, 20A
PE00364-030	Circuit Breaker, 2-pole, 30A
PE00037-030	Circuit Breaker, 3-pole, 30A
PE00037-035	Circuit Breaker, 3-pole, 35A

Standard Product Warranty

WARRANTY, DISCLAIMERS AND LIMITATION OF LIABILITY

Unless otherwise noted, all Moving Image Technologies products are covered by the warranty set forth in the following paragraphs.

The warranty is extended only to the purchaser of the Products directly from Moving Image Technologies, or an authorized dealer of Moving Image Technologies, as new merchandise. For a period of twelve (12) months from the date of original delivery to Buyer, the Products are warranted to be free from functional defects in materials and workmanship, provided they are operated under condition of normal use, and that repairs and replacements are made in accordance herewith. Moving Image Technologies does not warrant consumable components. The foregoing warranty shall not apply to Products that have been disassembled, altered or repaired other than by Moving Image Technologies (or by a Moving Image Technologies certified technician) or if the Product has been subject to abuse, misuse, negligence or accident.

Moving Image Technologies sole and exclusive warranty obligation and Buyer's sole and exclusive warranty consists of Moving Image Technologies, at its option, repairing or replacing free of charge Products: (a) which contain a defect covered by the above warranty; (b) which are reported in writing to Moving Image Technologies not later than seven (7) days after the expiration of the twelve month warranty period; (c) which are returned to Moving Image Technologies promptly after discovery of the defects; and (d) which are found to be defective by Moving Image Technologies upon examination. Buyer shall pay all transportation charges.

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There are no express or implied warranties which extend beyond the warranties set forth above. Moving Image Technologies makes no warranty of merchantability or fitness for a particular purpose with respect to the products or any parts thereof.

This warranty is subject to change at any time without notice.

CONTACTING MiT

To order parts or request information from MiT, use the address, telephone number, or fax number given on the inside front page of this document. When contacting MiT be prepared to provide:

- Model and serial number.
- Part name and part number, as shown in this manual.
- Original Purchase order number.

The purchase order number is essential for replacement parts requested under warranty. MiT issues credit for defective parts received. Please request a Return Authorization number from MiT for any defective parts.

