



2211045-02 MultiView Series Mini Dense Pack Power Supply

Quick Start Guide

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FCC and industry Canada radio frequency interference statements

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

Modifications not expressly approved by the manufacturer could void the user's authority to operate the equipment under FCC rules.

Canada (ICES-003) notice: This Class A digital apparatus complies with Canadian ICES-003. (Cet appareil numérique de la classe A est conforme a la norme NMB-003 du Canada)



European union declaration of conformity

The manufacturer declares that this product meets the requirements of EU Directive 89/336/EEC for EMC and LVD safety for ITE 2006/95/EC.

International customers AC mains cord supplied with unit must conform to IEC G0227 designation H03UWV-F or H03VVH2-F, conductors shall be at least .75mm² cross-sectional area (18 AWG).



Specifications

Cable Required:	18 AWG DC coaxial harness wired to 3 position Phoenix
Compliance:	CE, FCC Part 15 Class A, RoHS, cTUVus
Connectors:	(6) Phoenix 3 pos. power ports (1) IEC-320 AC inlet, fused
Temperature tolerance:	Operating: 32 to 104°F (0 to 40°C) Storage: -4 to +140°F (-20 to +60°C)
Humidity tolerance:	Up to 80% non-condensing
Enclosure:	Powder Coated Steel
Power:	100-240 VAC, 50/60Hz, 1.5A max.
Consumption:	150 Watts maximum
Fuse:	There are two internal AC-mains fuses. These fuses are not user-replaceable. CAUTION - DOUBLE POLE/NEUTRAL FUSING   N
Fuse rating:	5x20mm, 2A, 250V
Fuse type:	Littelfuse P/N 0218002.HXP
Output:	5 Volts DC at 10 amps maximum 12 Volts DC at 4.2 Amps maximum
Size:	7.25" W X 1.75"H X 6.75"D (18.4 cm X 4.45 cm X 17.1 cm)

Weight: 3 Lbs (1.36 Kg)

Accessories: 1U dual rack mount kit (PN: 400R3379)
DC coaxial cable with tinned conductors
(PN: 8450333)

Introduction

Overview

Magenta's MultiView™ series Mini Dense Pack PS is a small desktop or rack mount (with optional kit) central power supply solution primarily for MultiView™ products. Featuring dual 5VDC and 12VDC outputs, the Mini Dense Pack power supply can also be used to power non Magenta Research products.

This manual covers the Magenta MultiView™ Mini Dense Pack power supply set up and operation.



Observe proper polarity when connecting devices. Reversing polarities or connecting to the wrong voltage may damage the Mini Dense Pack and or the attached device. Generally, the positive (+) conductor has a white line. Always verify plus/minus cable conductors before connection to the Mini Dense Pack.

Supplied Cabling

The MultiView™ Series Mini Dense Pack is supplied with 6 six foot DC power cables for use with MultiView™ series equipment. Additional cables may be ordered with part number 8450333.

For customers in North America, an IEC320 AC cord is supplied. Non US customers need to supply a suitable IEC power mains cord.

Setup and Installation

Setup

1. Install the unit as a desktop or rack mount (with optional rack mount kit).
2. Ensure unit has adequate ventilation around it.
3. Plug AC cord into corresponding AC mains outlet.
4. Connect 5VDC and/or 12VDC devices using supplied 3 position captive screw connectors. Both 5VDC and 12VDC voltages may be used simultaneously. No internal configurations are necessary.



Observe proper polarity when connecting devices. Reversing polarities or connecting to the wrong voltage may damage the Mini Dense Pack and or the attached device.

Generally, the positive (+) conductor has a white line.

Always verify plus/minus cable conductors before connection to the Mini Dense Pack.

Total output power capacity is over 100 Watts and each port can provide power up to the following levels:

12 Volts DC @ 700 mA (8.4W)

5 Volts DC @ 1.67 A (8.35W).

Up to 100 watts of power can be supplied by any combination of ports so long as the maximum current rating for any given port is not exceeded.

Status LEDs on each port indicate 5VDC and 12VDC operation (OK) as well as over current limits exceeded (Fault). Additionally, when the unit has reached 90% capacity of either 5 or 12 Volts a front panel LED indicates this.

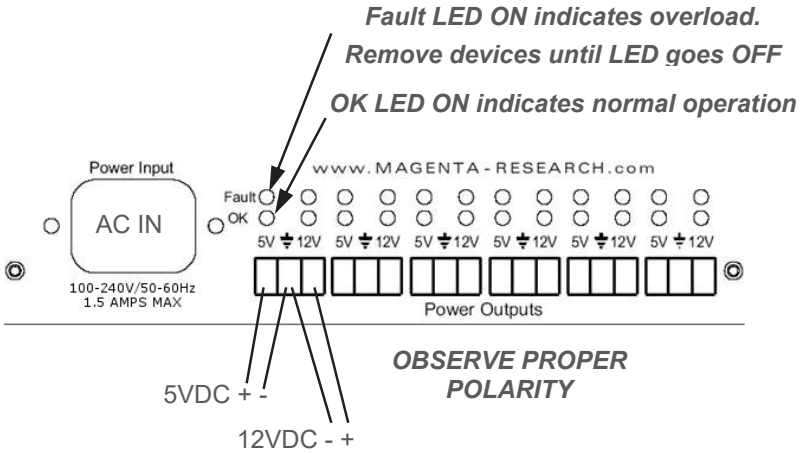
Connections on the Mini Dense Pack

The Mini Dense Pack can service multiple devices on a single port as long as the total port power rating is not exceeded. Please reference

individual device power ratings to determine the total number of devices that can be powered on each port as well as the entire unit.

Each port of the dense Pack is protected by the means of a self-resetting current-limiting fuse.

Over current sensing will cause the fuse to open, removing the port's load from the power supply. Once over current situation is resolved, the fuse once again will allow normal operation.



90 % LED ON indicates unit is close to power output limits.



Troubleshooting

Common Problems

In most cases, nearly every issue with the MultiView™ Series can be resolved by checking the AC mains and DC connections to each of the MV units.

Problem:

No power LED at Mini Dense Pack.

Solution:

- Check AC connection at both unit and at outlet.
- Ensure Mini Dense Pack is plugged in and outlet is live.
- The internal AC fuses may be blown. These are not user-serviceable components. Contact tvONE support for assistance.

Problem:

Powered Unit shuts off after period of time.

Solution:

Over-current situation may be present, causing DC port protection device to shut down port. Check DC cable for shorts/misconnections.

Problem:

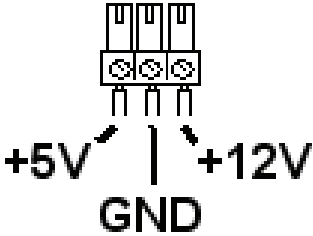
Mini Dense Pack turned on, but no or low voltage at outputs.

Solution:

- Check for unit load exceeding units maximum rating.
- Check for over temperature condition (lack of rack ventilation), power supply may have entered thermal shutdown mode.
- Check for cabling issues (one output shorted to another output).

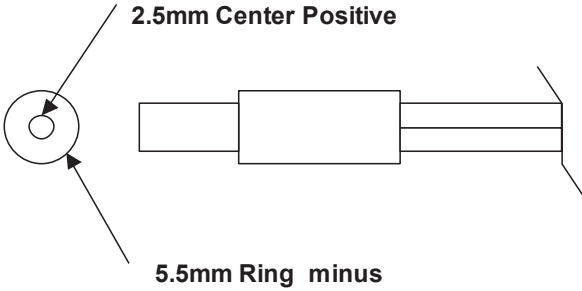
Appendix A. Cabling Pinouts

Mini Dense Pack End



MultiView Device End

Multiview Device End



Contact us

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