

FDMEDPLR-3

Installation and Operation Manual

Media Player iPod Cable Adapter



TECHNICAL SUPPORT
678-867-6717, or
www.FlightDisplay.com

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FDMEDPLR-3

Media Player iPod Cable Adapter

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General Information

The FDMEDPLR-3 is an Media Player iPod cable adapter that allows an iPod to be connected to an aircraft’s entertainment system. The adapter is designed to mount inside of a side wall or under a drink rail. It will be interfaced with the aircraft’s entertainment system, connected to components such as cabin speakers, headphone jacks, wireless headphone transmitters, monitors and audio/video switching components. The FDMEDPLR-3 will also charge the iPod allowing use throughout longer flights. The iPod is connected to the adapter with an 55-inch cable that can be stowed in a drink rail tray or side wall compartment. Left and right channel volume may be adjusted independently through access holes in the top cover. Compatible with Apple devices; iPad, iPhone, iPod shuffle, iPod nano, iPod touch, and iPod classic.

Front View



Specifications

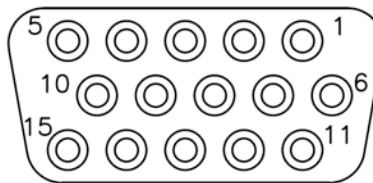
Power	28VDC @ .1A
Dimensions	2.75" (W) x 1.4" (H) x 5.75" (D)
Weight	15 oz
Connector	DB-15
Connections	L and R Audio, Composite Video, and Power
Cable Length	55"
Media Device Connection	30 pin Apple type

Power/Video

Pin out for P1 (High Density DB-15 Receptacle)

Suggested source of supply for DB15 connectors, manufactured by Tyco/Amp:

Connector	P/N	M24308/2-286
Crimp Contacts	P/N	M39029/57-354



MATING FACE

Pin Number	Description
1	28VDC Power
2	28VDC Ground
3	Composite Video Signal
4	Right Audio Signal
5	Left Audio Signal
6	Composite Video Ground
7	Right Audio Ground
8	Left Audio Ground
9	N/C
10	N/C
11	N/C
12	N/C
13	N/C
14	N/C
15	N/C

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Installation Instructions

All cabin entertainment equipment, such as the FDMEDPLR-3, should be installed on a non-essential bus and have a dedicated circuit breaker. It is necessary that a switch be installed in the cockpit so that the pilot can de-energize the entertainment system should it become necessary. Reference Technical Drawing at the end of this manual for mounting locations.

Power and Ground Wiring

This is a **28VDC** product that requires .1 Amps of power.

It is the installer's responsibility to understand the product's requirements and to install the product in compliance with industry standards.

The rated current of the equipment and associated voltage drop should be taken into consideration when selecting wire gauge. The following example is based on an install with a 28VDC power system and a total of 50 feet of wire between the circuit breaker, monitor and ground.

Example: 22awg wire has 16.2 Ohms per 1000 feet, this equates to .81 Ohms for 50 feet. 1 Amp of current on .81 Ohms will drop .81 Volts.

Resistance of Wire Type M22759/16-** (** = Gauge)	
Gauge (AWG)	OHMS/1000'
24	26.20
22	16.20
20	9.88
16	4.81
12	2.02
10	1.26
8	.701

Use 22 AWG wire for power and ground with a clean tight connection. The maximum wire run should be no more than 25 feet.

It is the installer's responsibility to understand the product's requirements to install the product in compliance with industry standards and safety.

Video Wiring Suggestions

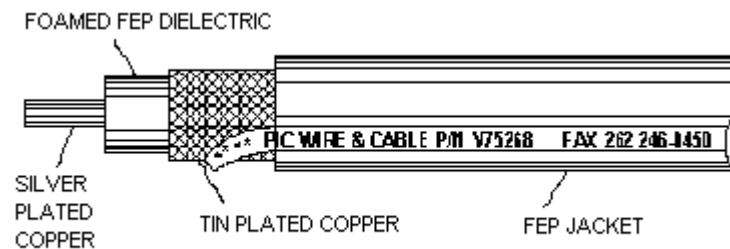
All shields should be grounded to the connector at the source, and floating at the display.

Avoid routing video wiring parallel to:

- AC wiring
- Strobe wiring
- DC motor supply cables
- Inverter cabling
- Or any other potential noise source.

Composite and Audio Wiring

Recommended cable for s-video/composite and audio purposes is PIC 75 Ohm Coax, P/N V75268. This is a lightweight, flexible, and low signal loss cable which meets FAA flammability requirements of FAR 23.1359(d), FAR 25.853(a) and FAR 25.869(a)(4).

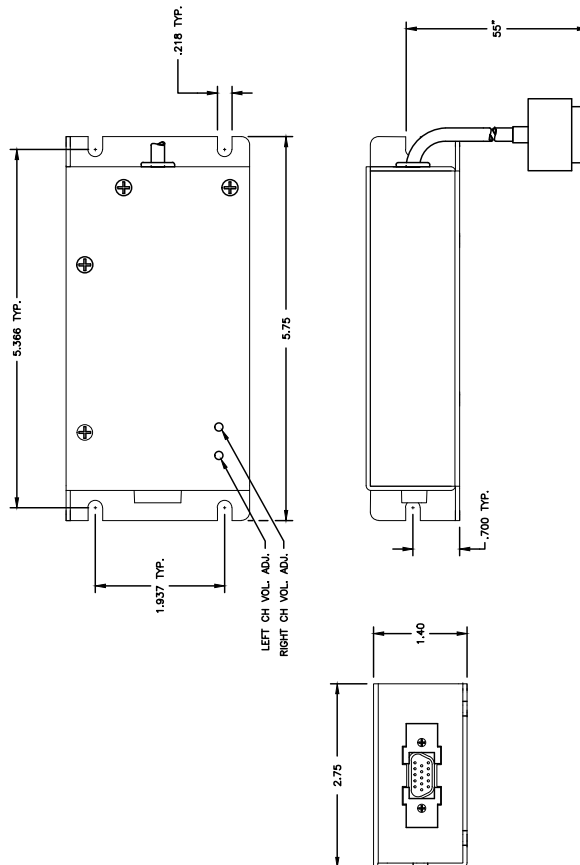


Similar aviation coaxial cable can be used from other vendors, as well.

Some aircraft are prone to AC noise - we recommend adding to the composite source a 75Ohm video isolation transformer such as Deerfield Laboratory, Inc. Part No. 162-1 (www.deerfieldlab.com, (650) 632-4090). In most cases this should be added to the video output of the source.

Technical Drawing

REV	DESCRIPTION	DATE	BY	APPRO
01	ORIGINAL ISSUE	09-30-09	JBP	JBP
02	DMC VOL ADJ ACCESS HOLES	12-03-10	DMC	DMC
03	ADDED VOL ADJ ACCESS HOLES	12-03-10	DMC	DMC



DESIGN	J.B.P.	09-30-09	FLIGHT DISPLAY SYSTEMS
APP'D	R.F.J.	09-30-09	FDMEDPLR-3
TOLERANCES	MOUNTING SPECIFICATION		
3 PLACE DIMS	+/- .010		
2 PLACE DIMS	+/- .020		
1 PLACE DIMS	+/- .030		
ANGLES	+/- .5°		
FINISH	BLACK POWDER PAINT		
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Technical Support

Should you have any questions concerning this product or other Flight Display Systems products, please contact our Product Support representatives at (678) 867-6717.

Flight Display Systems

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Fax: 678-867-6742

Email: sales@flightdisplay.com

For further product information, technical data and sample wiring diagrams, please click on the **Dealers** section of our web site at www.flightdisplay.com

Instructions for Continued Airworthiness

The FDMEDPLR-3 is designed not to require regular general maintenance.

Warranty Information

Flight Display Systems warrants the FDMEDPLR-3 against material or manufacturing defects for a *two-year period. Effective 1/1/2009, all equipment sold after 1/1/2009 will have a 2-year warranty. Warranty begins on date of installation. *The warranty registration card must be returned upon installation in order to validate the two-year warranty. Any warranty registration not returned during this time period will default to the date of purchase as the warranty start date.

If product support is required, please call our Technical Support team at 678-867-6717 to obtain assistance. If the return of the unit to the factory is required, an RMA number will be issued at that time. Flight Display Systems will, upon receipt of the failed hardware, remanufacture or replace the unit at our discretion.

Flight Display Systems will pay Ground Shipping charges for warranted items. Charges for express shipment will be the responsibility of the sender.

This warranty is not transferable. Any implied warranties expire at the expiration date of this warranty. We shall not be liable for incidental or consequential damages.

This warranty does not cover a defect or failure that has resulted from improper or unreasonable installation, use or maintenance, as determined by Flight Display Systems. This warranty is void if there is any attempt to disassemble or open this product without factory authorization.

Any labor charges associated with the removal of product or related troubleshooting by a firm other than Flight Display Systems or its designee will not be covered.

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Log of Revisions

Rev	Date	Page	Description
A	04/07/2010		Initial Release
B	12/08/2010		Updated photo, general info, specifications, technical drawing, description