
 <p>Flight Display Systems <i>Enhancing the Flight Experience</i></p>	<p>Document Number:</p> <p>MAN – FD932DVD-LP</p>	<p>Rev:</p> <p>E</p>	<p>Revision Date: 12/10/2010</p> <p>Page 1 of 13</p>
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FD932DVD-LP
Installation and Operation Manual
Low-Profile DVD/CD/MP3 Player



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

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FD932DVD-LP

Low-Profile DVD/CD/MP3 Player

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Flight Display Systems

1765 Grassland Parkway

Alpharetta, GA 30004

678-867-6717 Phone

678-867-6742 Fax

sales@flightdisplay.com

www.flightdisplay.com

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www.flightdisplay.com



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General Information

Features

- Compatible with DVD/CD/SVCD/VCD/MP3
- Back-lit front buttons
- VFD Digital Display
- Composite, NTSC/PAL Output
- Full Function Remote Control


Front View



Cautions

In order to prevent damage to the FD932DVD-LP, please follow the following precautions.

- Do not open and/or disassemble the FD932DVD-LP
- Do not attempt to insert a 3" disc (Mini-CD/Mini-DVD)

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Specifications


Dimensions	7.10" (W) x 1.1" (H) x 7" (D)
Weight	2 lbs. 5.4 oz.
Playable Discs	DVD, VCD, Super-VCD, CD, and MP3
Video Output Resolution	>500 lines, horizontal measurement
Power	28VDC @ 0.5 AMPS
Video Signal	NTSC or PAL
Video Output	Composite
Audio Output	Standard Left/Right
Output	RCA
Remote	IR, included 1/16" Jack for Wired Remote Sensor

Installation Instructions

All cabin entertainment equipment, such as the FD932DVD-LP, should be installed on a non-essential bus and have a dedicated circuit breaker. It is a requirement that a switch be installed in the cockpit so that the pilot can de-energize the entertainment system should it become necessary.

Power

The FD932DVD-LP requires 28VDC rated at a minimum of 0.5 Amps to function.

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Video Wiring Suggestions

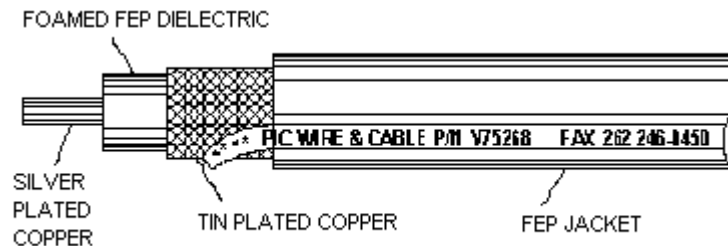
All shields should be grounded to the connector at the source, and floating at the display.

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 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. PartNo.162-1 (www.deerfieldlab.com, (650) 632-4090). In most cases this should be added to the video output of the source.

Power and Ground Wiring

22 AWG wire is recommended for Power and Ground applications.

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Power/Video

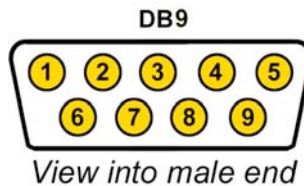
Pin out for P1 (High Density DB-9 Receptacle)

Part numbers for DB-9 connectors, manufactured by Amp:

D-sub, 9 contact receptacle (female)
9F pins

P/N 747905-2
P/N 205439-1

Wiring Diagram















Pin Number	Description
1	12VDC Power (28VDC for FD932DVD-LP (28V))
2	12VDC Ground (28VDC for FD932DVD-LP (28V))
3	Composite Signal
4	Audio - Left Signal
5	Audio - Right Signal
6	Composite/ Audio - Ground
7	N/C
8	N/C
9	N/C

Operation Instructions

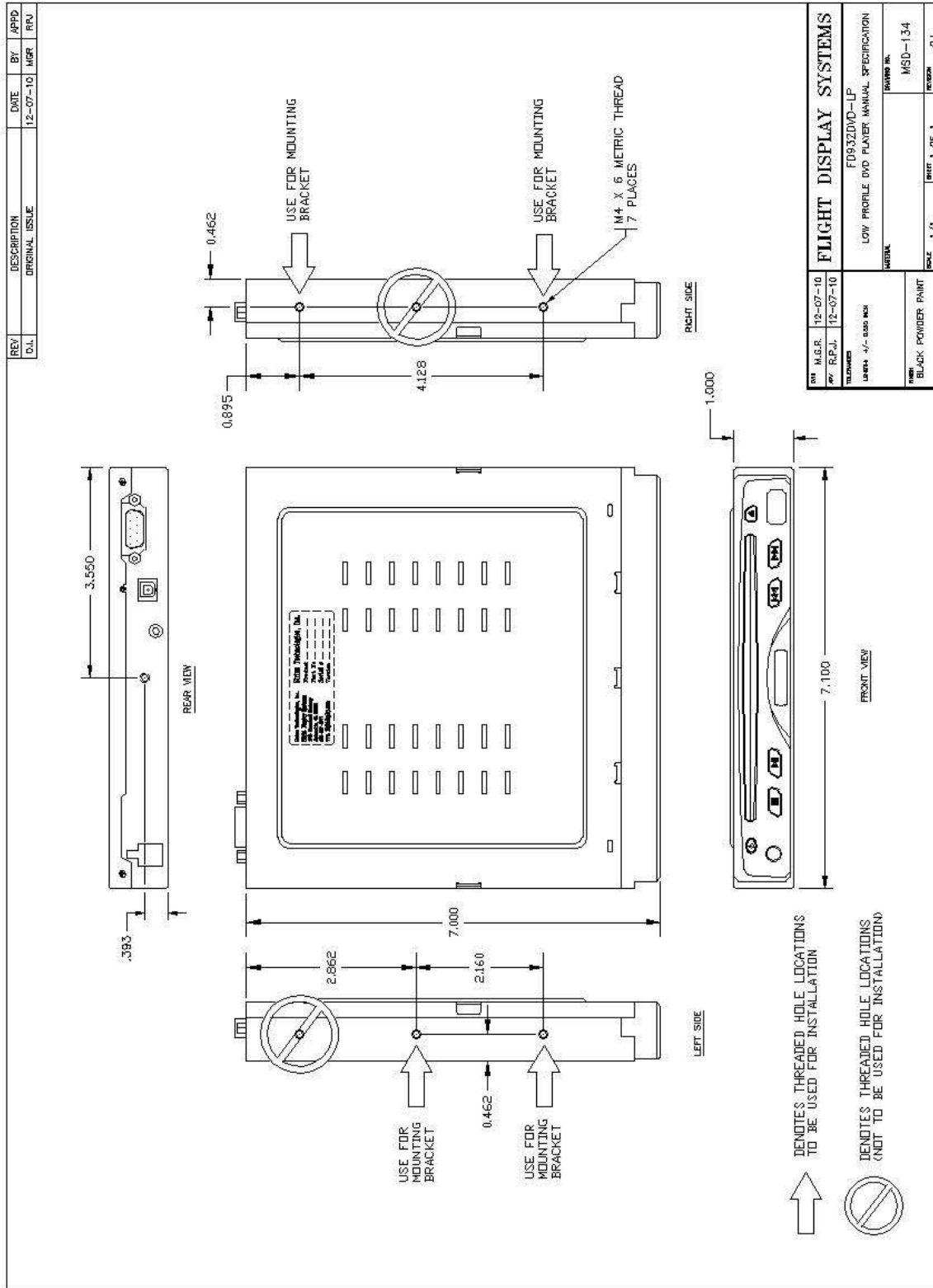
To power the unit up, press the power button. The unit will light up and display a Flight Display Systems logo on the display(s). Insert a CD or DVD into the slot, with label side up (away from the controls, if mounted vertically). The CD or DVD will load and automatically begin to play. Use the volume buttons, located on the left side of the unit, to adjust the volume to your preferred level. The FD932DVD-LP will remember its volume setting when powered down.


Note: CDs and DVDs are recorded at different levels, so it is normal for DVDs to be quieter than CDs at the same volume setting.

Button Controls

BUTTON	REMOTE	FUNCTION	DESCRIPTION
		Power	Turns on/off the unit.
		Eject	Ejects a CD or DVD when present.
		Play/ Pause	Pauses or resumes play of a CD or DVD.
		Stop	Stops playing the CD or DVD. Upon resuming, the music or movie will start from the beginning.
		Previous/ Next	Skips forward or backward through tracks (CD), files (MP3), or chapters (DVD).
			

Technical Drawing



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Troubleshooting

Video Noise

Check for an incorrect ground in the installation wiring. See specific examples of video noise below, or visit <http://flightdisplay.com/Grounding.pdf>


Snow or Sweeping Lines

Lines that slowly sweep up and down are a result of AC noise. This AC noise can be generated by a power cart on the aircraft. Take the power cart off of the aircraft. Be careful of inverter wiring, which can also cause noise. Stand off the wires, if necessary.

If snow or sweeping lines persist, it is possible that the ground is at an incorrect point in the aircraft. Try moving the ground to another location.

Remote Control Inoperable

- Confirm that the infrared eye on the unit, or the external IR sensor (if applicable), is visible
- Replace battery in remote control

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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
1765 Grassland Parkway
Alpharetta, GA 30004
Phone: 678-867-6717
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 FD932DVD-LP is designed not to require regular general maintenance.

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Warranty Information

Flight Display Systems warrants the FD932DVD-LP 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	03/02/2007		Initial Release
B	01/16/2008		Combined 12VDC and 28VDC manuals
C	07/31/2008	8	Updated Assembly Drawing
D	04/14/2009	2,7	Updated specifications, warranty info
E	12/08/2010	8,9	Updated button controls, assembly drawing