



HDMI Extender over Fiber Optic Cable



Model #: FO-HDM-SET

HDMI WUXGA TRUEHD
HDCP 1920x1200

© 2010 Avenview Inc. All rights reserved.

The contents of this document are provided in connection with Avenview Inc. ("Avenview") products. Avenview makes no representations or warranties with respect to the accuracy or completeness of the contents of this publication and reserves the right to make changes to specifications and product descriptions at any time without notice. No license, whether express, implied, or otherwise, to any intellectual property rights is granted by this publication. Except as set forth in Avenview Standard Terms and Conditions of Sale, Avenview assumes no liability whatsoever, and disclaims any express or implied warranty, relating to its products including, but not limited to, the implied warranty of merchantability, fitness for a particular purpose, or infringement of any intellectual property right. Reproduction of this manual, or parts thereof, in any form, without the express written permission of Avenview Inc. is strictly prohibited.

Table of Contents

Section 1: Getting Started	3
1.1 Important Safeguards	3
1.2 Safety Instructions	3
1.3 Regulatory Notices Federal Communications Commission (FCC)	4
1.4 Introduction	4
1.5 Package Contents.....	5
1.6 Before Installation.....	5
1.7 Installation	6
Section 2: Specifications.....	7
2.1 Signal Pin Assignment	8

Section 1: Getting Started

1.1 Important Safeguards

Please read all of these instructions carefully before you use the device. Save this manual for future reference.

What the warranty does not cover

- Any product, on which the serial number has been defaced, modified or removed.
- Damage, deterioration or malfunction resulting from:
 - Accident, misuse, neglect, fire, water, lightning, or other acts of nature, unauthorized product modification, or failure to follow instructions supplied with the product.
 - Repair or attempted repair by anyone not authorized by us.
 - Any damage of the product due to shipment.
 - Removal or installation of the product.
 - Causes external to the product, such as electric power fluctuation or failure.
 - Use of supplies or parts not meeting our specifications.
 - Normal wear and tear.
 - Any other causes which does not relate to a product defect.
- Removal, installation, and set-up service charges.

1.2 Safety Instructions

The Avenview FO-HDM-SET, HDMI Extender over Fiber Optic, has been tested for conformance to safety regulations and requirements, and has been certified for international use. However, like all electronic equipment's, the FO-HDM-SET should be used with care. Read the following safety instructions to protect yourself from possible injury and to minimize the risk of damage to the unit.

- Do not dismantle the housing or modify the module.
- Dismantling the housing or modifying the module may result in electrical shock or burn.
- Refer all servicing to qualified service personnel.
- Do not attempt to service this product yourself as opening or removing housing may expose you to dangerous voltage or other hazards
- Keep the module away from liquids.
- Spillage into the housing may result in fire, electrical shock, or equipment damage. If an object or liquid falls or spills on to the housing, unplug the module immediately.
- Have the module checked by a qualified service engineer before using it again.
- Do not use liquid or aerosol cleaners to clean this unit. Always unplug the power to the device before cleaning.

1.3 Regulatory Notices Federal Communications Commission (FCC)

This equipment has been tested and found to comply with Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

Any changes or modifications made to this equipment may void the user's authority to operate this equipment.

1.4 Introduction

Avenview FO-HDM-SET consists of a Transmitter and Receiver that lets you extend HDMI signal from DVD Player, Blu-ray Player Set-top box, console systems or other video equipment's over fiber optical signal without any signal degradation.

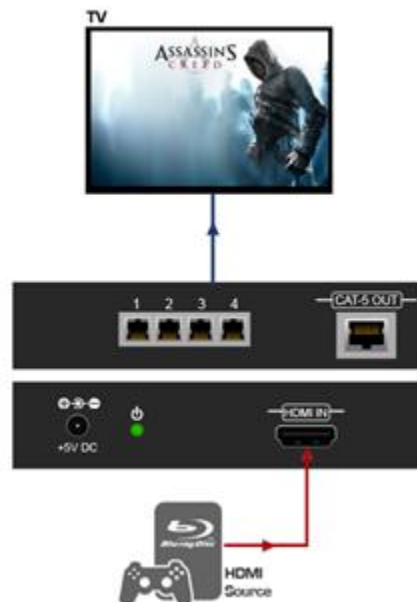
- High Speed and long distance transmission by Optical fiber (LC type Multi-Mode 4-ch fiber).
- Extends up to 100 meters (330 feet)
- Compatible with HDMI 1.3 Standard
- Backward compatibility with DVI Standard 1.0
- Supports HDCP compliant device
- Supports up to 1080p for HDTV and UXGA (1600 x 1200) resolution
- DDC and DEC signal line is transmitted by copper line (CAT5) between internal and external power

FO-HDM-SET

1080p at 100m (330 feet)

CABLE INDEX

- Output
- Input / Source



1.5 Package Contents

Before you start the installation of the converter, please check the package contents.

- | | |
|---|-----|
| - FO-HDM-SET Transmitter | x 1 |
| - FO-HDM-SET Receiver | x 1 |
| - Copper male to male HDMI Cable (-.5m) | x 2 |
| - Power Adapter (+5VDC) | x 1 |
| - User's Manual | x 1 |

Fiber Optic Cable is not included in the package

1.6 Before Installation

- Put the product in an even and stable location. If the product falls down or drops, it may cause an injury or malfunction.
- Don't place the product in too high temperature (over 50°C), too low temperature (under 0°C) or high humidity.
- Use the DC power adapter with correct specifications. If inappropriate power supply is used then it may cause a fire.
- Do not twist or pull by force ends of the optical cable. It can cause malfunction.



1.7 Installation

To setup Avenview FO-HDM-SET follow these steps for connecting to a device:

1. Power off display source such as DVD Player, Set-top box
2. Connect the enclosed copper HDMI cable into each display source and display
3. Connect copper HDMI cable which is attached to display source into FO-HDM-SET Transmitter
4. Connect Transmitter to the HDMI cable (course) and Receiver to HDMVI Cable (display)
5. Connect the Optical cable (4ch-LC standard connector) between Transmitter and Receiver by order no 1, 2, 3, 4
6. Connect the UTP cable (RJ45 connector) for DDC
7. Power on the source and display (check the LED light on of Transmitter and Receiver)

If there is no LED light on, insert the enclosed external power adapter into Transmitter.

Section 2: Specifications

Item	Description	
Units	FO-HDM-SET (Transmitter)	FO-HDM-SET (Receiver)
Unit Description	HDMI Fiber Optic Transmitter	HDMI Fiber Optic Receiver
Video Bandwidth	1.65Gbps	
Supported Resolution & Distance	WUXGA 1920 x 1200, 1080p @ 100 meters (330 feet)	
Optical Converter	4 ch 850 nm Multi-Mode VCSEL	4 ch GaAs PIN photo Diode
HDMI Connector	19 pin HDMI Plug	
Optical Connector	4 LC Connector	
DDC Link Connector	Rj45	
Fiber Type	50/125 μm Multi-mode glass fiber	
Dimensions (L x W x H)	1.0" x 2.4" x 2.2"	
Power Supply	5V DC	
Power Consumption	0.55W (max)	
<i>Environmental</i>		
Operating Temperature	32° ~ 104°F (0° to 40°C)	
Storage Temperature	-4° ~ 140°F (-20° ~ 60°C)	
Relative Humidity	20~90% RH (no condensation)	

2.1 Signal Pin Assignment

TRANSMITTER / Receiver

Pin	Signal Assignment	Pin	Signal Assignment
1	TMDS Data 2+	2	TMDS Data2 Shield
3	TMDS Data 2-	4	TMDS Data 1+
5	TMDS Data 1 Shield	6	TMDS Data 1-
7	TMDS Data 0+	8	TMDS Data0 Shield
9	TMDS Data 0-	10	TMDS Clock+
11	TMDS Clock Shield	12	TMDS Clock-
13	CEC	14	Reserved (N.C. on device)
15	SCL	16	SDA
17	DDC/CEC Ground	18	+5V Power
19	Hot Plug Detect		



Disclaimer

While every precaution has been taken in the preparation of this document, Avenview Inc. assumes no liability with respect to the operation or use of Avenview hardware, software or other products and documentation described herein, for any act or omission of Avenview concerning such products or this documentation, for any interruption of service, loss or interruption of business, loss of anticipatory profits, or for punitive, incidental or consequential damages in connection with the furnishing, performance, or use of the Avenview hardware, software, or other products and documentation provided herein.

Avenview Inc. reserves the right to make changes without further notice to a product or system described herein to improve reliability, function or design. With respect to Avenview products which this document relates, Avenview disclaims all express or implied warranties regarding such products, including but not limited to, the implied warranties of merchantability, fitness for a particular purpose, and non-infringement.