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Pure Fiber DVI Active Optical Cable

EPDVIC01

Rev. 1.2



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1 Description

EverPro's EPDVIC01 product is a pure fiber DVI active optical cable (AOC) with high performance, low power consumption and low cost. Using optical fiber to replace copper wire as the high-speed signal transmission medium, EPDVIC01 can perfectly transmit HD image over 300 meters. Compared with the traditional copper wire, EPDVIC01 AOC is much longer, softer, more slim, with better signal quality and perfect EMI/EMC feature. Compared with other HDMI optical fiber transmission solution, EPDVIC01 AOC is easy to use, and no external power supply needed.

2 Feature

- 1) Long distance transmission, over 300 meters
- 2) Single channel DVI interface, support 1080P display
- 3) Program and store monitor's EDID information inside of source connector
- 4) No external power needed
- 5) Thinner, lighter and softer than conventional copper cable
- 6) No radiation, and highly resistant with EMI



3 Specification

Cable Length

Customized, Up to over 300m

Interface

DVI-D plug – DVI-D plug

Max Resolution

1920*1080@60hz (1080P)

Power

No external power needed

Power Consumption

250mW

Mechanical / Condition

Cable diameter	3.0mm
Bend Radius (Dynamic/Static)	40mm/20mm
Tensile Strength (Long term/Short term)	100N/200N
Crush Resistance (Long term/Short term)	200N/400N
Operating / Storage Temp	0 ~ 50°C/-20 ~ 70°C



4 Part Number

Part Number	Description
EPDVIC01-A0A0KxxxPG	DVI AOC ,Standard DVI-D male to male ,xxx meter ,Black, Plastic housing

- i. All of standard cables have no logo. NRE is need if adding customized logo.
- ii. Cable length can be customized.

5 Application

- 1) Home Theater
- 2) High definition Video Meeting System
- 3) Medical Video System
- 4) High definition Video Surveillance System
- 5) Digital Signage and TV Wall

6 EDID Programming User Guide

In order to implement long distance transmission, EDID is designed to be programmed inside of cable. Please follow these steps to program EDID:

1. Copy and program EDID

Power on the “Source” connector using Micro USB cable, and the LED turns Green. Plug “Source” connector in monitor’s DVI interface. Wait for 2~3 seconds, the LED turns Red. That means the EDID of target monitor has been copied and programed into the cable. During this process, the “Display” connector can be left unconnected.



2. Normal connect and use

Plug the “Source” connector in the PC and the “Display” connector in the monitor. The LED turns Blue. That mean the cable is correctly connected. If the monitor cannot be lighted, please try to give external power to the “Display” connector through Micro USB cable.



Note: Users don't need to program EDID every time unless changing another type of monitor.