



The Most Reliable Performance Digital Connectivity Products

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## Owner's Manual

# OC-III Series

Integrated DVI Fiber-Optic Extension Cables

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## WELCOME

Congratulations on the purchase of your OC-III Series Fiber-Optic Digital Video Interface cable (Optical DVI) – and thank you for choosing **PureLink**. This owner’s manual will guide you through simple and safe installation of your new cable.

### ► Package Contents

In addition to your new OC III optical DVI cable and the owner’s manual, you will also find the following:

- Optical DVI (DOC-XXXA or DOC-XXXB): 1 Unit
- AC/DC 5V Power Adaptor - Type A: 2 EA, Type B: 1EA

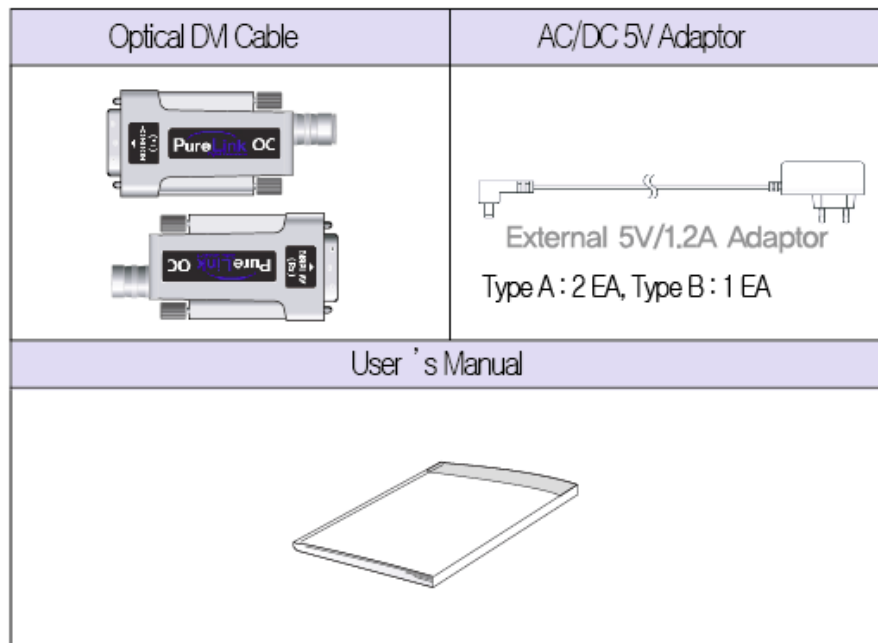


FIG 1 – Package Contents

### ► Contacting Dtrovision

If you have any questions or need assistance, please contact Dtrovision customer service at (201)-488-3232. For technical support, please contact at [support@dtrovision.com](mailto:support@dtrovision.com)

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# 1. PRODUCT SAFETY

## ▶ FCC/CE Compliance Statement

This device has been tested and complies with the limit for Class A digital device, pursuant to the Part 15 of FCC Rules and EN 55022/55024/6100-3 for CE Certification. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This device generates, uses, and can radiate radio frequency energy, and may cause harmful interference to radio communications if not installed and used in accordance with the instructions in this manual. Should this equipment cause any interference to radio or television reception (which can be determined by turning the equipment off and on), the user is encouraged to try and correct the interference by one or more of the following measures:

- Reorient or relocate receiving antenna.
- Increase the separation between the High Definition LCD TV and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult our technical support team for additional assistance.

## ▶ UL Statement

### **FCC Warning**

To assure continued FCC compliance, the user must use the provided shielded and grounded cables and connectors. Any unauthorized changes or modifications not expressly approved by Dtrovision will void the user's authority to operate this device.

## ► Important Safety Notice

- **Do not exceed minimum bend radius and tensile load!** Exceeding the bend radius and tensile load of the cable may result in unseen permanent damage to the fibers or connectors of it. See the specification table later in this manual for appropriate bend radius and tensile load.
- **Avoid twisting the cable!** Twisting the cable greatly increases your chances of breaking the fibers.
- **Do not attempt to disassemble or modify the cable!** Disassembling or modifying the cable may result in serious electric shock or burn.
- **Never use the cable near water!** If the apparatus (both DVI MALE PLUGS) has been exposed to rain or moisture, and as a result, water spilled into it, unplug the cable immediately. Have it serviced by a qualified engineer before reuse.
- **Do not install near heat sources** such as radiators, heat registers, stoves, or any other equipment that produces heat.
- **Protect from stress or being pinched!** Ensure that the cable is protected from being walked on or pinched, particularly at both HDMI receptacles where the cable ends.

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## 2. INSTALLATION

### ▶ System Requirement

- **Hardware**

Any site where DVI port is available

- **Software**

Due to Plug N' Play support, no driver or any additional software is required. For use with PC's, make sure that graphic card software is installed properly.

### ▶ System Requirement

- **For DOC-XXXX**

Step 1

-Power off both the source and receiver units.

Step 2

-Connect supplied AC/DC power adapter to Display Module of the cable. The LED on the receiver unit will light up.

Step 3

-Plug the Source module of the cable in the DVI port of a source unit and the Display module of the receiver unit respectively.

Step 4

-Turn on both the source and receiver units. Make sure the LED lights on both units are on when connected.

- **For DOC-XXXB**

Step 1

-Power off both the source and receiver units.

Step 2

-Plug the Source module of the cable in the DVI port of the source unit, and the Display module of the receiver unit respectively.

Step 3

-Turn on both the source and receiver units. Make sure the LED lights on both units are on when connected.

- **Note for DOC-XXXX**  
Depending on the PC VGA card specifications, it does not provide 5V output. In this case, the display will be blank. Connect the power adapter to the Source Module.
- **Note for DOC-XXXB**  
If both LED lights on the module are on, and the system does not work properly, it is mainly caused by insufficient power. In this case, use the supplied adapter.



FIG 2 - Installation

#### ► System Requirement

- **Power LED**  
It is located on the top surface of each module of the cable, and indicates that each module is getting power supply from the DVI source or adapter.
- **Operations**  
Once the OC-III cable is connected, and the Source/Display units are turned on, the system is fully operational. If the device is not functioning, verify that the cables are connected properly, or the source or display devices are set to DVI as output/input source respectively.

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### 3. APPENDIX

#### ▶ Troubleshooting

- No picture (no display/signal)

|   |   |
|---|---|
| <b>Is the cable connected properly?</b>             | Check that the cable is properly connected to the source or display unit.   |
|   | Check that the LED light on each module is turned on.   |
| <b>Does the Source or Display device work well?</b> | Are the Source and Display devices turned on?   |
|   | Is the main picture source of devices set to DVI respectively?  |
| <b>Is source resolution acceptable?</b>             | Is source resolution out of the display's supported range?  |
| <b>Is the power adapter properly connected?</b>     | Type A:<br>Is a power adapter connected to the display module?<br>In case of insufficient source power (blank display), connect a power adapter to the source module. |
|   | Type B:<br>Is a power adapter connected to the display module?  |

#### ▶ Maintenance

- **No special maintenance is required.**  
Make sure the cable unit is installed and operated in accordance with the safety instructions.
- **No user-serviceable parts.**  
If any problems are encountered refer all servicing to qualified personnel, or contact our technical support team.

► **Product Specifications**

| <b>Category</b> |                         | <b>Details</b>                              |
|-----------------|-------------------------|---|
| <b>Video</b>    | Video Bandwith          | 1.65Gbps (Single Link)                      |
|                 | Input Connector         | DVI Male                                    |
|                 | Resolution Supported    | Up to WUXGA 1920 x 1200 @60Hz, 1080P        |
|                 | Output Connector        | DVI Male                                    |
|                 | Extension Limit         | 120m (396ft)                                |
| <b>General</b>  | Power Supply            | Internal or External 5V/ 1.2A AC/DC Adapter |
|                 | Power Consumption       | Source: 1.4W / Display: 1.15W               |
|                 | Operating Temperature   | 0 – 50 Centigrade (32F – 122F)              |
|                 | Storage Temperature     | -20 – 70 Centigrade (14F – 158F)            |
|                 | Dimensions              | 62mm x 41mm x 16mm (W/H/D)                  |
|                 | Clamping Strength       | DOC-XXXA: 13kgf / DOC-XXXB: 14Kgf           |
|                 | Tensile Load            | DOC-XXXA: 200N / DOC-XXXB: 1200N            |
|                 | Minimum Bend of Radius  | DOC-XXXA: 10mm / DOC-XXXB: 50mm             |
|                 | Outer Diameter of Cable | DOC-XXXA: 4.0mm / DOC-XXXB: 7.1mm           |
|                 | Jacket Material         | PVC   |

## ▶ Warranty

- **2-Year Manufacturer's Warranty**

Dtrovision, LLC. warrants this **PureLink** branded fiber-optic DVI extension cable against defects and in materials and workmanship under normal use for a period of two (2) year from the date of purchase from Dtrovision or its authorized resellers.

If the product does not operate as warranted during the applicable warranty period, Dtrovision shall, at its option and expense, execute one of the following as necessary:

1. Repair the defective product or part
2. Deliver to customer and equivalent product or part to replace the defective item
3. Refund to customer the purchase price paid for the defective product

- **Exclusions and Limitations**

All products that are replaced become the property of Dtrovision, LLC. Replacement products may be new or reconditioned.

Repaired or replacement products or parts come with a 90-day warranty or the remainder of the warranty period. Dtrovision shall not be responsible for any software, firmware, information, or memory data loss of contained in, stored on, or integrated with any products returned to Dtrovision for repair under warranty.