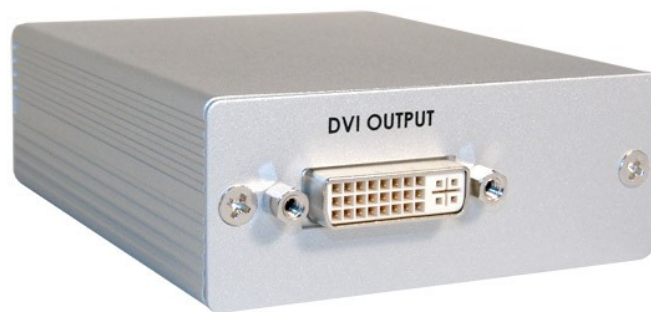


DVI Repeater Corrector

ID# 436



Operation Manual

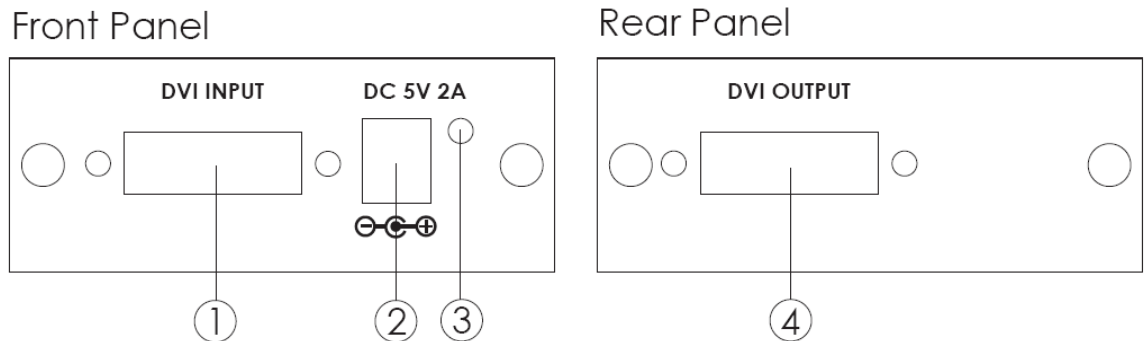
Introduction

The DVI Repeater Corrector boosts DVI source signal and extends the range of DVI signal transmission over a copper based cable by 12 meters at 1080p/UXGA. It can also be cascaded in multiple stages to achieve maximum transmission distance.

Features

- * Correct signal error and boost signal strength for extending transmission range.
- * Extends 1080p/UXGA up to 12 meters transmission distance.
(lower resolution signal can be transmitted longer)
- * DDC pass through.
- * HDCP compliant.

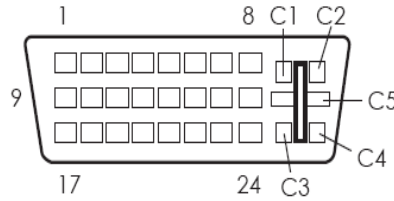
Operating Functions and Controls Front Panel



- 1. DVI input connector:** It accepts only DVI-D signal from DVI sources, such as PC with DVI graphic card or DVD player with DVI output, analog RGB signal is not supported.
- 2. Power input:** Connect the supplied DC 5V power supply into this unit.
- 3. Power LED:** The LED will illuminate when the power is connected.
- 4. DVI output connector:** Connect to the DVI input of PC monitor, projector, LCD or PDP display unit.

DVI-D Pin Configuration

DVI-Digital(DVI-D): Supports digital-only connections between the host computer and display. This interface is designed for A 12 or 24-pin connection to enable single or dual-link mode activation.



Digital only connector pin assignments					
Pin	Signal Assignment	Pin	Signal Assignment	Pin	Signal Assignment
1	T.M.D.S Data2-	9	T.M.D.S Data1-	17	T.M.D.S Data0-
2	T.M.D.S. Data2+	10	T.M.D.S. Data1+	18	T.M.D.S. Data0+
3	T.M.D.S. Data2 Shield	11	T.M.D.S. Data1 Shield	19	T.M.D.S. Data0 Shield
4	N.C.	12	N.C.	20	N.C.
5	N.C.	13	N.C.	21	N.C.
6	DDC Clock	14	+5V Power	22	T.M.D.S. Clock Shield
7	DDC Data	15	Ground (for +5V)	23	T.M.D.S. Clock+
8	No Connect	16	Hot Plug Detect	24	T.M.D.S. Clock-
C1	N.C.	C2	N.C.	C3	N.C.
C4	N.C.	C5	N.C.		

Specifications

* **Compliant with DVI Rev1.0**

* **HDCP 1.1 compliant**

* **Downward compatible to HDCP 1.0**

* **Operation frequency** : up to 165MHz

* **DVI data rate**: 1.65Gbps (single Link)

* **Input/Output resolution** :

PC : VGA@60Hz, VGA@72Hz, VGA@75Hz, VGA@85Hz

SVGA@60Hz, SVGA@72Hz, SVGA@75Hz, SVGA@85Hz

XGA@60Hz, XGA@70Hz, XGA@75Hz, XGA@85Hz,

XGA@87Hz, SXGA@60Hz, SXGA@75Hz, SXGA@85Hz,

UXGA@60Hz, 1152@70Hz, 1152@75Hz, 1152@85Hz

HD : 480i@60Hz, 576i@50Hz, 480p@60Hz, 576p@50Hz,

720p@60Hz, 720p@50Hz, 1080i@60Hz, 1080i@50Hz,

1080p@60Hz, 1080p@50Hz, 1080p@30Hz, 1080p@25Hz,

1080p@24Hz

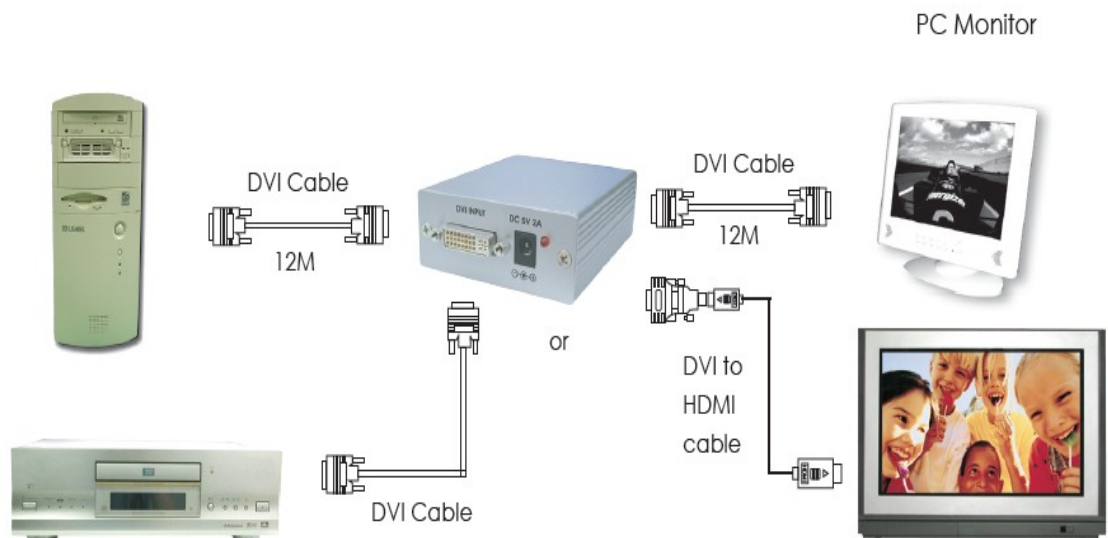
* **Cable Distance Support** : 12m with twisted-pair

* **Dimensions (WxHxD)** : 76 x 30 x 105mm

* **Power** : 5V 2A Center- positive

Note: Different cable quality may affect the maximum resolution and transmission distance.

Connection and Installation



Note: DVI repeater can be cascaded in multiple tiers.