



DVI Repeater

# User Manual

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Model : DE01ERK

DVI CAT5e Extender 70M



## Introduction

The DE01ERK is a DVI extender that can use a cost-effective Ethernet cable to carry the signal with a transmission distance of up to 70M. With DVI Adaptors, users can transmit high-quality digital video of PC applications thru one cost-effective CAT5/5e to the remote monitor or projector, instead of using short and expensive DVI cables. Additionally, the passive extender requires no power to enable itself and is suitable for severe environments like factories and construction sites – monitoring the working environment from distance for safety purposes.

## Features

- Resolution up to 1920 x 1200.
- Signal extension up to 50M at 1920 x 1200.
- No power is required for both Tx and Rx units.
- Built-in micro USB for external power at Tx unit when connected DVI source can't provide enough power to the receiver.

## Diagram



## Transmission Distance

When your DVI source cannot provide enough power to the receiver, you can input power via the built-in micro USB port of DE01ET.

For example, when you connect multiple DE01ERs to a DVI distributor, the power consumption may exceed the limitation of the DVI device. In this case, please use micro USB to DC plug cable (Package included) to connect a 5V power adaptor (Optional) for external power.

Resolution	Distance (Meter)
1920 x 1200	50
1920 x 1080	50
1600 x 1200	50
1600 x 900	50
1280 x 1024	50
1280 x 720	60
1024 x 768	60
800 x 600	70

Remark: The transmission distance may vary by different PC/Monitor equipment and cable quality.

## Panel View

DE01ET



DE01ER



## Cable

- To reach long transmission distance and stability, using high quality CAT5E UTP or CAT6 UTP cable is recommended.
- DO NOT use STP or flat cable, which may cause no video output.

		RJ45 JACK		
		PIN	Color	Function
<p>JACK POSITION</p>	1	W-O	TMDS DATA2 +	
	2	O	TMDS DATA2 -	
	3	W-G	TMDS CLOCK +	
	4	BL	TMDS DATA1 +	
	5	W-BL	TMDS DATA1 -	
	6	G	TMDS CLOCK -	
	7	W-BR	TMDS DATA0 +	
	8	BR	TMDS DATA0 -	

## LED Indication

Green            Status Normal  
Yellow          Loss of Clock Signal

## Caution

- The cabling must away from any equipment with electromagnetic wave, i.e.: microwave, radio equipment, high voltage.
- Working distance will be variety based on different equipment.
- The picture may come with noise under the resolution 640 x 480
- HDCP not supported.
- Do not use STP cable or flat cable which may cause no video output.

## Specification

ITEM NO.	DE01ET	DE01ER
Support		
Compliance	DVI 1.1	
Max. Video Resolution	1920 x 1200@60 Hz	
Max. Transmission Distance	50M at 1920 x 1200	
Video Bandwidth	1.65 Gbps	
Ports & Interfaces		
Video Input	1 x 25 Pin DVI-D	1 x RJ45
Video Output	1 x RJ45	1 x 25 Pin DVI-D
Power Connector	1 x Micro USB	
Power		
Power Supply	DC 5V 1A (Optional)	
Power Consumption	320mA	
Ambient Temperature		
Operation	0 to 55°C	
Storage	-20 to 85°C	
Humidity	Up to 95%	
Physical Characteristics		
Dimensions	40.2 x 55.5 x 22.5mm	40.2 x 55.5 x 22.5mm
Weight	260g	280g