



# Twisted Pair Selector



DC-44400



DC-45400

## Introduction

Through the twisted pair selector DC-44400/DC-45400, can connect VGA-Extender or AV-Extender local unit with CAT.5 cable, DC-44400/DC-45400 select Video/Audio signal output to VGA monitor/audio amplifier; provides perfect skew delay correction.

## Features

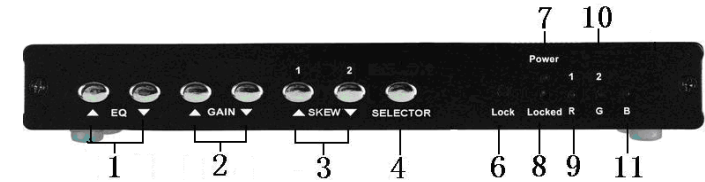
- Equalization length is adjustable
- VGA signal gain is adjustable
- Max Resolution 1280x1024 60HZ.
- 62ns total delay
- 2ns delay step increments
- Memorize function
- Button locked function
- Support stereo audio digital transfer

## Specifications

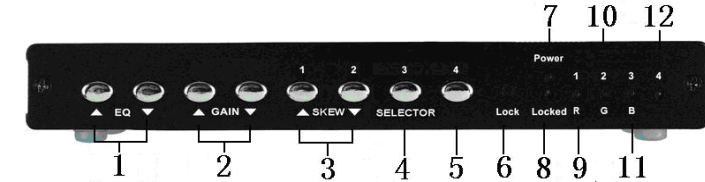
Function	DC-44400	DC-45400
VGA Out Connector	HD-15 Female x 1	
Audio Out Connector	3.5 $\phi$ Stereo Jack x 1	
RJ-45 In Connector	2	4
Max. Resolution	1280x1024 60Hz	
Cable Distance	300 m (Max.)	
Power Adapter (Min.)	DC 12V 600mA	
Housing	Aluminum	
Weight	320g	332g
Dimensions (LxWxH)	200x86x29mm	

## FRONT VIEW

DC-44400



DC-45400



1. EQ up/down button: Adjusts the equalization length while in adjust mode adjust to sharpen weak images. This will not work in general mode.
2. GAIN up/down button: Adjusts brightness in adjustment mode. This will not work in general mode.
3. Port 1, 2 button: Selection key for Ports 1 and 2 while in general mode.  
RGB SKEW up/down button: Can only be adjusted while in adjust mode.
4. Port 3 button: Selection key for Port 3 while in general mode.  
SELECTOR button: Selection key for R, G or B SKEW while in adjust mode.  
\*While in DC-44400, this is the selection key for RGB SKEW in adjust mode. Does not work in general mode.
5. Port 4 button: Selection key for PORT 4 while in general mode. Does not work in adjust mode.  
\*While in DC-44400 do not press this key.
6. Lock button: Press Lock key. Locked LED will power down. Next, enter adjust mode. Press the lock key once more, and the Locked LED will light up. Then return to general mode. Your data will be saved after the adjustment.
7. Power LED
8. Locked LED: Locked LED is off. Enter adjust mode. Locked LED is on. Return to general mode.
9. Port 1 LED: This is the Port 1 LED while in general mode. LED blinks when selected.  
R LED: While in RGB SKEW selection mode outputting to R selection mode, the LED will be lit.

## USER MANUAL

### DC-44400 / DC-45400

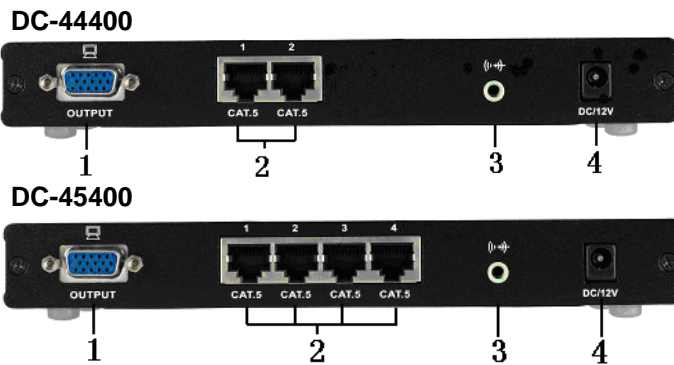
#### Package Contents-

- 1 Digitus DC-44400 or DC-45400
- 1 user manual
- 1 power adapter DC 12V/600mA

If anything is missing, please contact your vendor.

10. Port 2 LED: This is the PORT 2 LED while in general mode. This LED blinks when selected.  
G LED: While in RGB Skew selection mode, and while in G selection mode, the LED is lit.
11. Port 3 LED: LED for PORT 3 while in general mode. LED blinks when selected.  
B LED: While in RGB SKEW adjust mode outputting to B adjust mode, the LED will be lit.  
\*While in DC-44400, this LED will not light up in general mode, but will light up in adjust mode.
12. Port 4 LED

## REAR VIEW



1. VGA Output
2. RJ-45 Input
3. Audio Output
4. Power Jack

## Installation

1. Connect the VGA-Extender or AV-Extender local unit RJ-45 output connector and DC-44400/DC-45400 RJ-45 Input connect with CAT.5 cables.
2. Connect the DC-44400/DC-45400 VGA output connector with HD-15 male to male cable from monitor.
3. Connect the DC-44400/DC-45400 audio output connector with audio cable from audio amplifier.
4. EQ and GAIN compensates the loss caused by the length of the cable, and the VGA output can be connected to a monitor to view the image quality.

**Note:** Excessive EQ and GAIN compensation may cause incorrect decoding, abnormal display, or no display at all.

## Operation

### General Mode:

- After turning on the power, the power LED and locked LED will light up, the Port 1 LED will blink, and the rest of the LEDs will be off.
- When a Port's selection key is selected, the corresponding LED will blink; the Lock key also can be used to operate adjust mode, while the remaining keys are non-functional.

### A. Adjust Mode:

In normal mode, after selecting Port 1, 2, 3 or 4, press the Lock key to enter Port adjustment mode. Once the adjustment is complete, press the Lock key again to exit Port adjustment mode. Next, save the port adjustment data and return to normal mode.

- Press the Lock key. All of the LEDs will shut off except for the Power LED. Enter adjust mode.
- Pressing the EQ up/down button will adjust the definition, while pressing both buttons at once returns to zero.
- Pressing the GAIN up/down button will adjust the brightness, while pressing both buttons at once returns to zero.
- Press the SELECTOR button to choose R, B or G SKEW adjustment. The selected R, G or B LED will light up.
- A lit R LED indicates that pressing the SKEW up/down button will adjust the delay time for R. Pressing both buttons as once returns to zero.

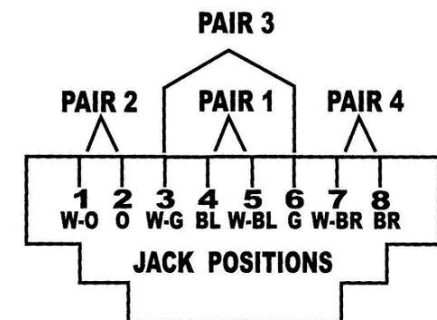
- When the G LED is on, it indicates that pressing the SKEW up/down button will adjust the delay time for G. Pressing both buttons and the same time returns to zero.
- When the B LED is lit, it indicates that the SKEW up/down button adjusts the delay time for B. Pressing both buttons at the same time returns to zero.
- Press the LOCK key when the adjustment is complete. The Locked LED will light up. Exist adjustment mode, return to general mode, and save post-adjustment data.

### Note:

1. Pressing the EQ up/down button increases or decreases voltage by 33mV, to a maximum of 1V.
2. Pressing the Gain up/down button increases or decreases the voltage by 33mV, to a maximum of 1V.
3. Pressing the RGB SKEW up/down button increases or decreases delay time by 2ns, to a maximum delay of 64ns.

## Wiring Information & Coding

Conductor Identification	RJ45 Pin Assignment	Color Code for Conductor
Pair 1	5	White-Blue
	4	Blue
Pair 2	1	White-Orange
	2	Orange
Pair 3	3	White-Green
	6	Green
Pair 4	7	White-Brown
	8	Brown



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