QU-12D/14D/18D

1 to 2/1 to 4/1 to 8 Distribution Amps

OPERATION MANUAL

Safety Precautions

Please read all instructions before attempting to unpack or install or operate this equipment, and before connecting the power supply. Please keep the following in mind as you unpack and install this equipment:

- Always follow basic safety precautions to reduce the risk of fire, electrical shock and injury to persons.
- To prevent fire or shock hazard, do not expose the unit to rain, moisture or install this product near water.
- Never spill liquid of any kind on or into this product.
- Never push an object of any kind into this product through module openings or empty slots, as you may damage parts.
- Do not attach the power supply cabling to building surfaces.
- Do not allow anything to rest on the power cabling or allow it to be abused by persons walking on it.
- To protect the equipment from overheating, do not block the slots and openings in the module housing that provide ventilation.

Revision History

Version No	Date	Summary of Change
VR0	20110901	Preliminary Release
VR1	20120307	Combine 1x2 & 1x4

Table of Contents

1. Introduction

The QU-12D/14D/18D are high performance, HDCP compliant, DVI distribution amplifiers allowing one DVI input to be distributed to multiple displays simultaneously. Each of the buffered outputs can run up to 15 meters (8-bit) and can be cascaded up to 3 layers.

2. Applications

- Simultaneous multi-channel display
- Showroom display
- Educational demonstration
- Installation usage

3. Package Contents

- DVI Splitter
- 5V DC Power Adaptor
- Operation Manual

4. System Requirements

Input source equipment such as PC/NB or Blu-ray player signal with DVI or HDMI to DVI adaptor cable and output to display monitor or TV with DVI connection cable.

5. Features

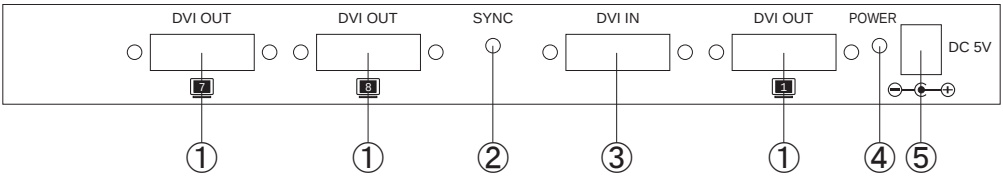
- HDMI 1.3 and DVI 1.0 compliant
- Supports PC resolutions: VGA to WUXGA
- Supports HDTV resolutions : 480p to 1080p
- Can be cascaded up to 3 layers
- Each of the buffered output can run up to 15m/8bits or 10m/12bits
- EDID: The device will read EDID of output 1 and will record it

6. Specifications

Input Port	1 x DVI
Output Ports	2/4/8 x DVI
Audio Sampling Rate	Up to 192 kHz
Power Supply	5V DC / 2.6A (US/EU standards, CE/FCC/UL certified)
ESD Protection	Human body model: ± 8kV (air-gap discharge) ± 6kV (contact discharge)
Dimensions (mm)	102 (W) x 125 (D) x 30 (H)/2S 102 (W) x 141 (D) x 38 (H)/4S 240 (W) x 103 (D) x 29 (H)/8S
Weight(g)	280/12D, 550/14D, 550/18D
Chassis Material	Metal
Silkscreen Color	Black
Operating Temperature	0˚C ~ 40˚C / 32˚F ~ 104˚F
Storage Temperature	-20˚C ~ 60˚C / -4˚F ~ 140˚F
Power Consumption	3.5W/2S, 6W/4S,10W/8S
Relative Humidity	20 ~ 90%RH (non-condensing)

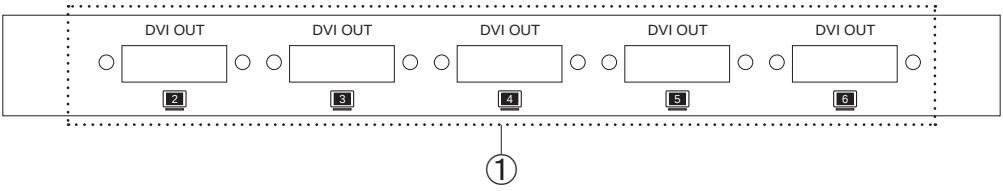
7. Operation Controls and Functions

7.1 Front Panel



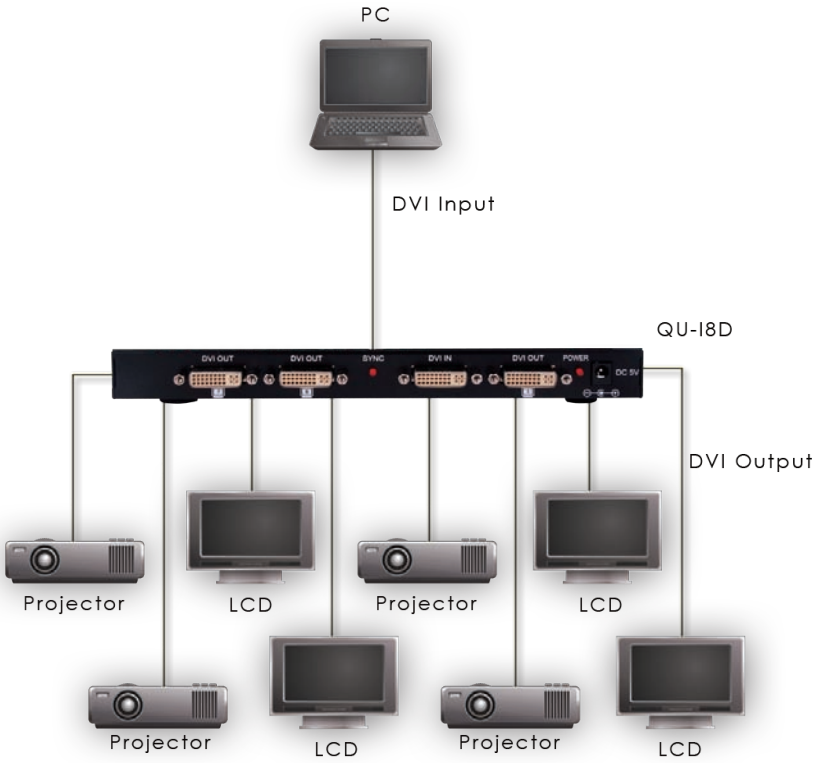
① DVI OUT 7/8/1: These slots are to connect to the displays with DVI cables.
② SYNC LED: This LED will illuminate in RED when the source signal is connected and detected by the unit.
③ DVI IN: This slot is to connect with input source equipment such as graphic card or PC for input signal sending.
④ POWER LED: This LED will illuminate when the power is connected with power supply.
⑤ DC 5V: Plug the 5V DC power supply into the unit and connect the adaptor to AC wall outlet.

7.2 Rear Panel



① DVI OUT 2~6: These slots are to connect to the displays with DVI cables.

8. Connection and Installation



Acronyms

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Acronym	Complete Term
DVI	Digital Visual Interface
HDCP	High-bandwidth Digital Content Protection
HDMI	High-Definition Multimedia Interface

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