



# QU-210S

## v1.3 HDMI 2 to 10 Rack Mountable Distribution Amplifier

### OPERATION MANUAL





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## 1. Introduction

The QU-210S HDMI Distribution Amplifier has a Two HDMI inputs and 10 HDMI outputs. The Silicon Image chipset based splitter is compatible with both Deep Colour and High Definition Audio, with EDID selection. It boasts an extended HDMI output range of up to 20 metres. EDID management is handled by a simple switch. A common application of this product is in commercial and residential installations where either one of two HDMI source is required at multiple HDTV's.

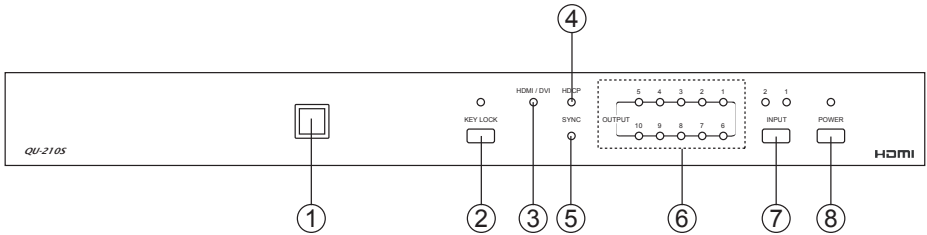
## 2. Features

- Compliant with v1.3 HDMI, HDCP 1.1 and DVI 1.1 standards.
- HDMI 2 to 10 Distribution Amplifier (Splitter).
- Resolutions Supported:
  - PC: VGA to UXGA
  - HDTV: 480i to 1080p, plus 1080p24fps.
- High Definition Audio supported: Dolby TrueHD, Dolby Digital Plus and DTS-HD Master Audio, plus LPCM (32-192KHz sample rate).
- Auto signal amplification & equalisation improves signal transmission distances.
- Support CEC bypass.
- Supports 'Deep Colour' (10 & 12 bit).
- Selectable EDID settings - TV (downstream) and STD (fixed).
- HDCP Keysets allows each output to work independently when connecting different colour depth HDMI displays.
- Supports xvYCC.



### 3. Operation Controls and Functions

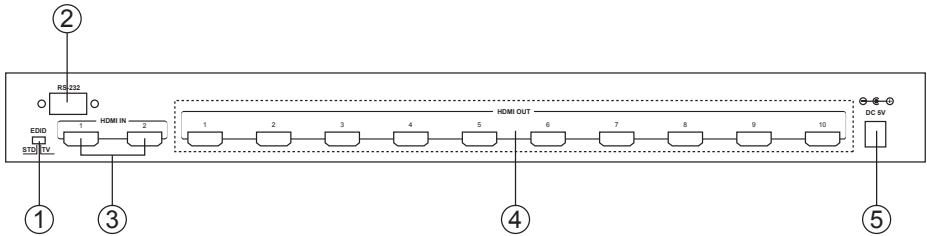
#### 3.1 Front Panel



1. Remote Control Sensor.
2. Key Lock: Press and hold the 'Key Lock' button for 5 seconds. The system will enter Key Lock mode and the LED indicator will illuminate. When the system is in Key Lock Mode, all functionality of the buttons will be disabled.
3. HDMI/DVI Indicator: The LED will illuminate when the selected HDMI input is connected to a HDMI source. The LED will not illuminate when the HDMI input is connected to a DVI source.
4. HDCP Indicator: The LED indicator will illuminate when the HDMI input source is HDCP protected.
5. SYNC Indicator: The LED indicator will illuminate when the selected HDMI Input successfully connects to an HDMI or DVI source.
6. HDMI Output Indicator: The LED will illuminate when the output sources are connected.
7. HDMI Input Indicator: Press the 'INPUT' button repeatedly to switch your desired Input (HDMI 1 or HDMI 2). The LED indicator will illuminate to indicate which input source is selected.
8. POWER Indicator: The Power LED will illuminate in Green when the power is On, and Red when in Standby Mode.



## 3.2 Rear Panel



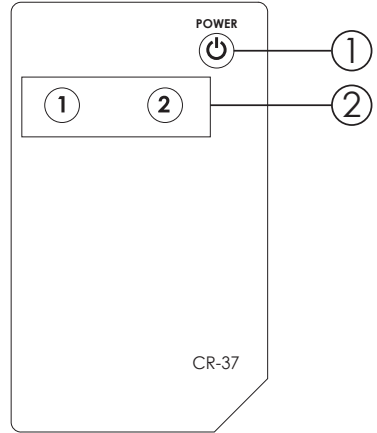
1. EDID Control Switch: Default setting is TV (downstream). In this mode the QU-210S will search all output ports (starting at output 1) for the highest video/audio settings connected to each of the outputs. The detection priority of the matrix is v1.3 HDMI, v1.2 HDMI, DVI. Switch to STD (fixed EDID) if you have any issues with the default setting (TV). When switching to STD, please ensure that the unit is powered OFF, then ON again, for the setting to be made. By changing to STD, this will force the source to be configured as standard stereo (PCM) Audio and initiate a search for a common compatible video resolution.
2. RS-232: 9-Pin D-sub connection for connecting your PC or other RS-232 Control based console for remote operation.
3. HDMI Inputs 1 and 2: Connect input ports to the HDMI or DVI output of your source equipment such as a Blu-Ray player or set-top box.
4. HDMI Outputs 1 to 10: Connect each of the output ports to the HDMI display. When more than one output is connected, the HDMI outputs play an identical video signal simultaneously.
5. POWER: Plug the 5V DC power supply into the splitter and connect the adaptor to the AC wall socket.



## 4. Remote Control

1. Power: Press the button to turn the unit ON or OFF.

2. Input Select for HDMI: Press '1' to select HDMI Input 1, or Press '2' to select HDMI Input 2.



## 5. RS-232 Protocol

### 5.1 Pin Definitions

The connection between the Splitter and Remote Controller with RS-232 Cable.

OR-HD44E			Remote Control Console	
PIN	Definition		PIN	Definition
1	NC		1	NC
2	TxD		2	RxD
3	RxD	→	3	TxD
4	NC		4	NC
5	GND		5	GND
6	NC	←	6	NC
7	NC		7	NC
8	NC		8	NC
9	NC		9	NC

\* RS-232 transmission format:

Baud Rate: 19200bps

Data Bit: 8 bits

Parity: None

Stop Bit: 1 bit

Flow Control: None

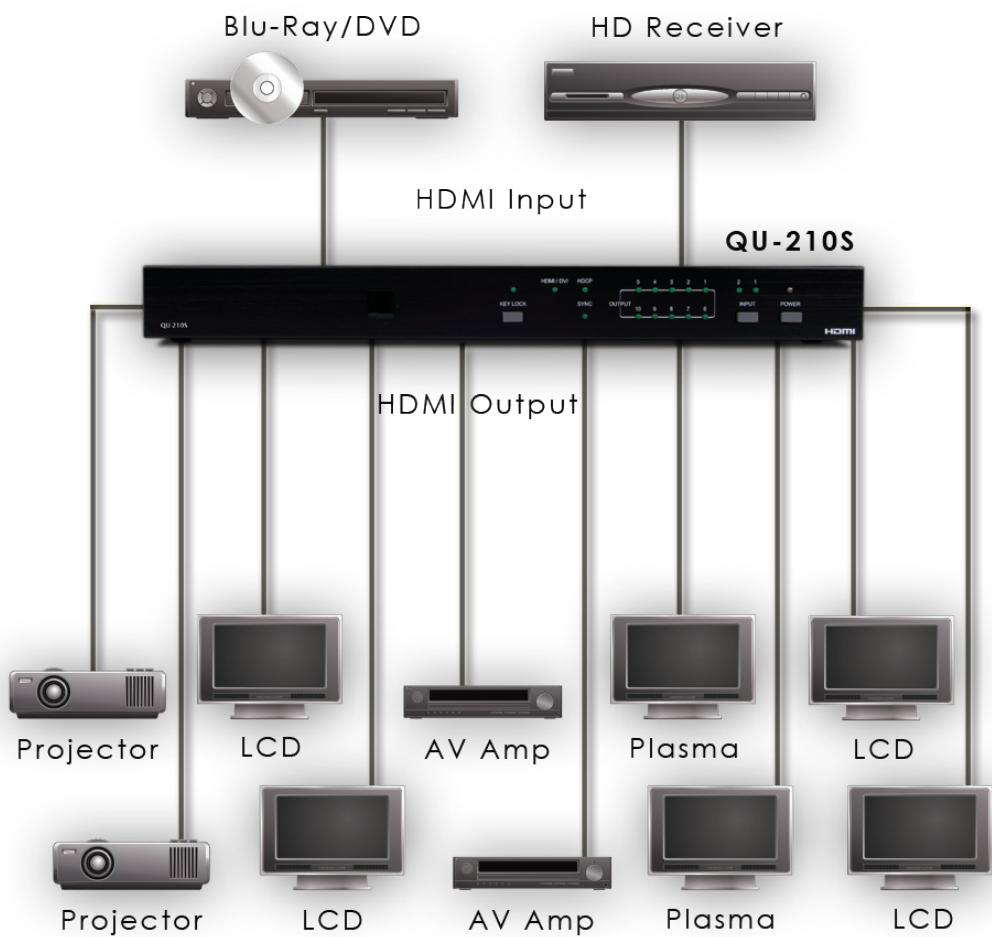


## 5.2 Commands

COMMAND	ACTION
Power 00	Power OFF (Standby)
Power 01	Power ON
Port 01	Select Input 1
Port 02	Select Input 2



#### 4. Connection Diagram







## 5. Specifications

Input	2 x HDMI
Output	10 x HDMI
Power Supply	5V/6A DC (US/EU standards, CE/FCC/UL certified)
Dimensions (mm)	435(W) x 160(D) x 45(H)
Gross Weight (g)	2120
Net. Weight (g)	1760
Chassis Material	Aluminium
Colour	Black
Operating Temperature	Operating from 0°C ~ 40°C