

# CCMX-44DA

## HD 4x4

### Operation Manual



CCMX-44DA



## **Revision History**

<b>Version No</b>	<b>Date</b>	<b>Summary of Change</b>
<b>V1</b>	<b>20081021</b>	<b>Preliminary Release</b>

## **Precaution**

Failure to follow the precautions described below may cause damage to CCMX-44DA and void the warranty.

- DO NOT open the case. Doing so will void the warranty. If you find problem with it, please return back to your retailer or seller who will assist you or provide you with solution.
- DO NOT use third-party AC adapter or power cord. Doing so may damage the unit.
- DO NOT bump, jar or drop contents of the products as it may damage it and result in warranty void.
- DO NOT set any liquids or beverages on the case as they may damage the unit.

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## **1. Introduction**

The Cypress CCMX-44DA is a high performing Digital/Analog AV matrix. When distributing multiple HD audio/video sources this device offers you the advantage of being able to direct them to any of the four outputs, or all four displays can show one output source at the same time. It also provides you with a variety of choices of where to play your image, all of which is controlled through the remote.

Please follow this manual to begin enjoying the benefits of this unit. We suggest keeping this manual in a safe place for future reference.

## **2. Application**

- High performance Digital/Analog AV matrix with remote.
- Link up-to four of your favorite sources and enjoy playing them on HDTV's for a truly magnificent experience.
- Each input can be directed to any/all of the outputs.
- Accepts both digital and analog audio.

## **3. Feature**

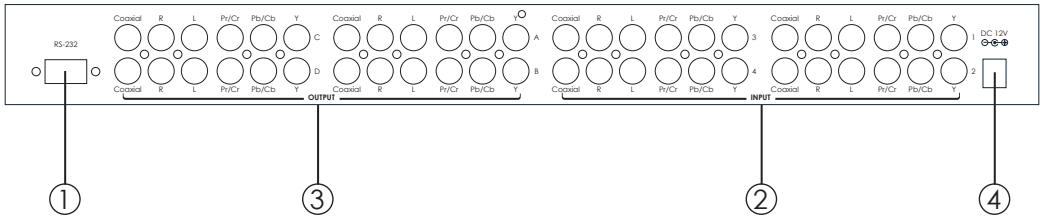
1. Provides 4x4 matrix input/output of Component (YPbPr/YCbCr) video and L/R & Coaxial digital audio signal.
2. Buffered video and audio output.
3. Input source LED indicators on each output selection.
4. Ideal for integrating your home theater, conference rooms and retail stores.
5. Supports high resolution input/output:  
HDTV: 480i, 576i, 480p, 576p, 1080i, and 1080p
6. Supports analog stereo L/R audio input/output.
7. Supports Coaxial audio input/output.
8. IR remote control.
9. RS-232 control.

## **4. Package Contents**

1. Cypress CCMX-44DA Component Matrix
2. 12VDC Power Supply Adaptor
3. Remote Control
4. Operation Manual

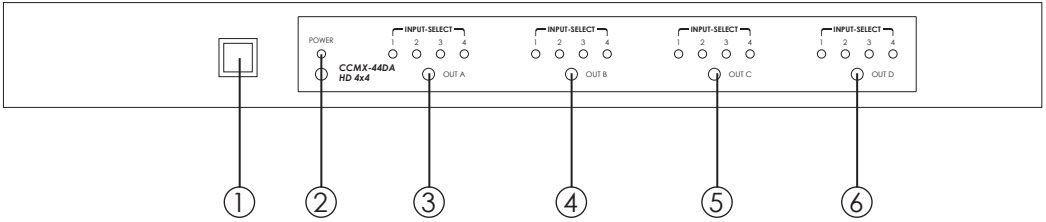
## 5. Operation Controls and Functions

### 5.1. Rear Panel installation



- ① **RS-232 Communication Port:**  
Connect to the COM port of your PC for remote control over RS-232 protocol.
- ② **Component with Digital (Coaxial) & L/R Audio output Ports A, B, C and D:**  
Connect each set of Component (3 RCA) and Audio (2 RCA/Coaxial) cables to the input of your HD displays.
- ③ **Component with Digital (Coaxial) & L/R Audio INPUT Ports 1, 2, 3 and 4:**  
Connect each set of Component (3 RCA) and Audio (2 RCA/Coaxial) cables to the output of your source equipment such as DVD/Blu Ray players or set-top-boxes.
- ④ **Power:**  
Plug the 12VDC power supply into the unit and connect the adaptor to an AC outlet.

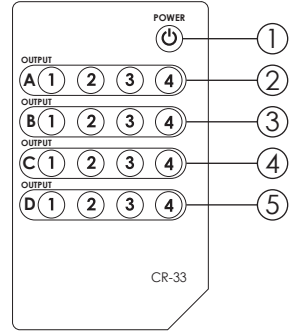
## 5.2. Front Panel



- ① Remote control sensor.
- ② Power Switch & LED Indicator:  
The LED will switch on when the power is turned on.
- ③ Input Select/Indicators for Output A:  
Press the "OUT A" button repeatedly to switch to your desired source. One of the four LEDs will turn on to indicate which input source has been selected and routed to the display.
- ④ Input Select/Indicators for Output B:  
Press the "OUT B" button repeatedly to switch to your desired source. One of the four LEDs will turn on to indicate which input source has been selected and routed to the display.
- ⑤ Input Select/Indicators for Output C:  
Press the "OUT C" button repeatedly to switch to your desired source. One of the four LED's will turn on to indicate which input source has been selected and routed to the display.
- ⑥ Input Select/Indicators for Output D:  
Press the "OUT D" button repeatedly to switch to your desired source. One of the four LED's will turn on to indicate which input source has been selected and routed to the display.

### 5.3. Remote Control

1. Power:  
Press the button to turn the unit on or off.
2. Select input for Component/Audio OUT A:  
Press 1, 2, 3 or 4 to select the desired input source for Component/Audio OUT A.
3. Select input for Component/Audio OUT B:  
Press 1, 2, 3 or 4 to select the desired input source for Component/Audio OUT B.
4. Select input for Component/Audio OUT C:  
Press 1, 2, 3 or 4 to select the desired input source for Component/Audio OUT C.
5. Select input for Component/Audio OUT D:  
Press 1, 2, 3 or 4 to select the desired input source for Component/Audio OUT D.



### 5.4. RS-232 Protocol

#### 5.4.1. Pin Definition

CCMX-44DA			Remote Control Console	
PIN	Definition		PIN	Definition
1	NC		1	NC
2	Tx	→	2	Rx
3	Rx		3	Tx
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: 9600 bps

Data bit: 8 Bits

Parity: None

Stop Bit: 1 bit



## 5.4.2. Commands

COMMAND	ACTION
P0	Power Off (standby)
P1	Power On *
ST	System Status *
VR	Firmware Version
A1	Output A select Input1
A2	Output A select Input2
A3	Output A select Input3
A4	Output A select Input4
B1	Output B select Input1
B2	Output B select Input2
B3	Output B select Input3
B4	Output B select Input4
C1	Output C select Input1
C2	Output C select Input2
C3	Output C select Input3
C4	Output C select Input4
D1	Output D select Input1
D2	Output D select Input2
D3	Output D select Input3
D4	Output D select Input4

\*: command "P1" and "ST" response: P? A? B? C? D?

## 6. Specifications

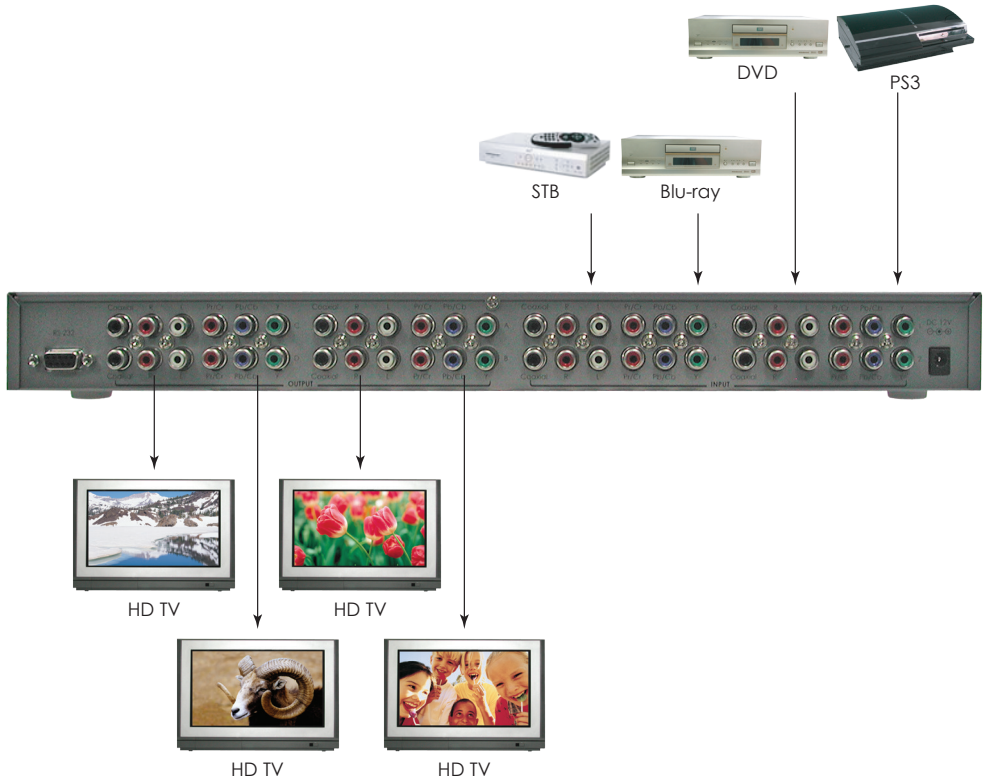
### 6.1. General Specification

- \* Input Ports:  
Component (YPbPr/YCbCr) + Coaxial & L/R Audio x 4 sets
- \* Output Ports:  
Component (YPbPr/YCbCr) + Coaxial & L/R Audio x 4 sets
- \* 12V DC power supply
- \* Dimensions: 436 (W) x 120 (D) x 44(H)mm
- \* Weight: 1.6 Kgs
- \* Power consumption: 6w (max)

### 6.2. Support Resolution

INPUT	480i / 480p/576i / 576p/720p/1080i / 1080p@50Hz/60Hz
OUTPUT	480i / 480p/576i / 576p/720p/1080i / 1080p@50Hz/60Hz

## 7. Connection and Installation







**CYPRESS TECHNOLOGY CO., LTD.**  
Home page: <http://www.cypress.com.tw>

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