

# CCMX-44DA

## HD 4x4

### Operation Manual



CCMX-44DA

## **Revision History**

<b><i>Version No</i></b>	<b><i>Date</i></b>	<b><i>Summary of Change</i></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**

**Cypress CCMX-44DA** is a high performance Component of Digital/Analog Audio with Video Matrix. It offers you maximum convenience in HDTV audio/video signal distribution when you have multiple sources to display. Each of the four HDTV audio/video sources can be directed to any one of the four outputs and or all four displays can show one identical output sources at the same time. It provides a variety of choices on where to play your image with remote controller.

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

## **2. Application**

- High performance Digital/Analog Audio and Video Matrix with remote control.
- Link up-to 4 of your favor sources and enjoying playing them on different HDTV with true HD.
- Each input can be direct to any/all output.
- Audio format of Digital or Analog both acceptable.

## **3. Feature**

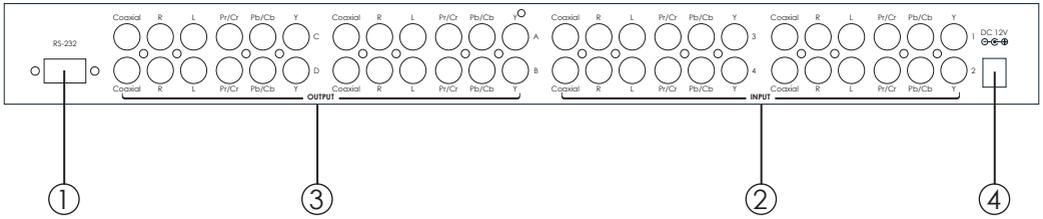
1. Provides 4 by 4 matrix input/output of Component (YPbPr/YCbCr) video and L/R & Coaxial digital audio signal.
2. Buffered video and audio output.
3. Input source LED indicators on each output select.
4. Ideal for home theater integration, conference room and retail stores.
5. Supports high resolution input/output:  
HDTV: 480i, 576i, 480p, 576p, 1080i, and 1080p
6. Supports analog stereo L/R audio input and output.
7. Support Coaxial audio input and 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 Controller
4. Operation Manual

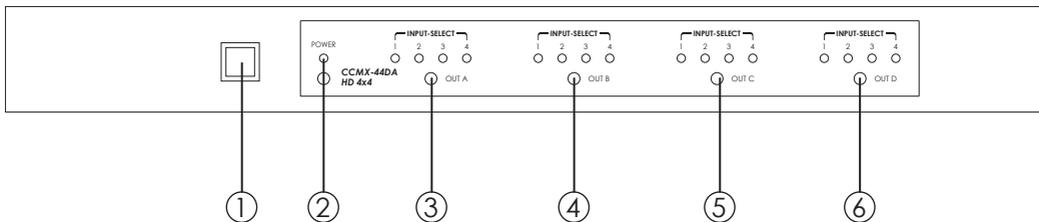
## 5. Operation Controls and Functions

### 5.1. Rear Panel installation



- ① RS-232 Communication Port:  
Connect to the COM port of your PC for the distant control over RS-232 Channel.
- 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) to the input of your HDTV 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) to the output of your source equipments such as DVD player or set-top-box.
- ④ Power:  
Plug the 12VDC power supply into the unit and connect the adaptor to AC wall outlet.

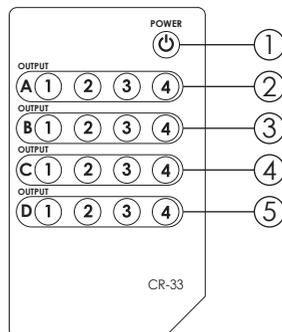
## 5.2. Front Panel



- ① Remote control sensor.
- ② Power Switch & LED Indicator:  
The LED will illuminate 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 illuminate to indicate which input source is being 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 illuminate to indicate which input source is being 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 LEDs will illuminate to indicate which input source is being 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 LEDs will illuminate to indicate which input source is being selected, and routed to the display.

### 5.3. Remote Control

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

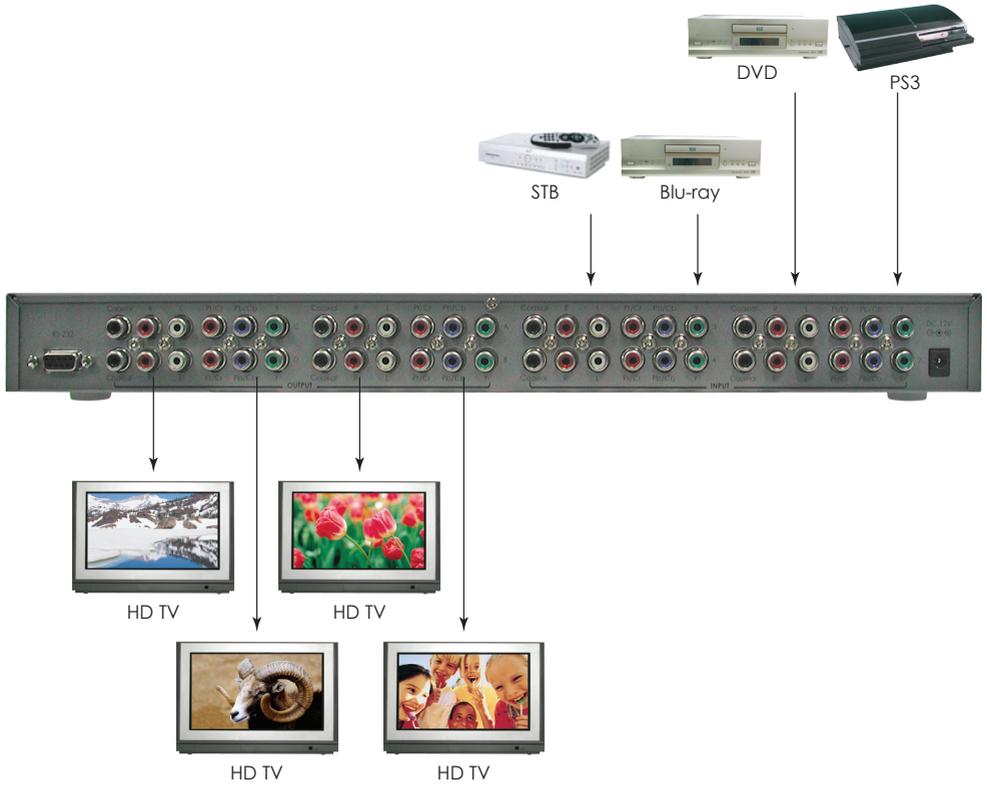
### 6.1. General Specification

- \* 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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