COMPANICS
Communication & Electronics LTD

כומפניקס תקשורת ואלקטרוניקה בע"מ
הבורסקאי 1 א.ת. סגולה, פ"ת | ספק מ. הביטחון: 83524121 | ח.פ: 512109968
03-9049004 / טל' | www.companics.co.il | sales@companics.co.il

HDMI®
HIGH-DEFINITION MULTIMEDIA INTERFACE

USER MANUAL

HDMI Matrix 2x2 (4K@60Hz)

Enjoy the vivid world

Introduction :

The HDMI matrix 2x2 can connect 2 HD signal sources to 2 HD display terminals with optical fiber and stereo headphone output at the same time via HDMI out 1 port . The matrix allows two HDMI devices to be switched or split easily to two HDMI compatible monitors or projectors.

This HDMI matrix support lossless transmitting and are widely used in space and security concerns, data center control, information distribution, conference room presentation, school and corporate training environments.



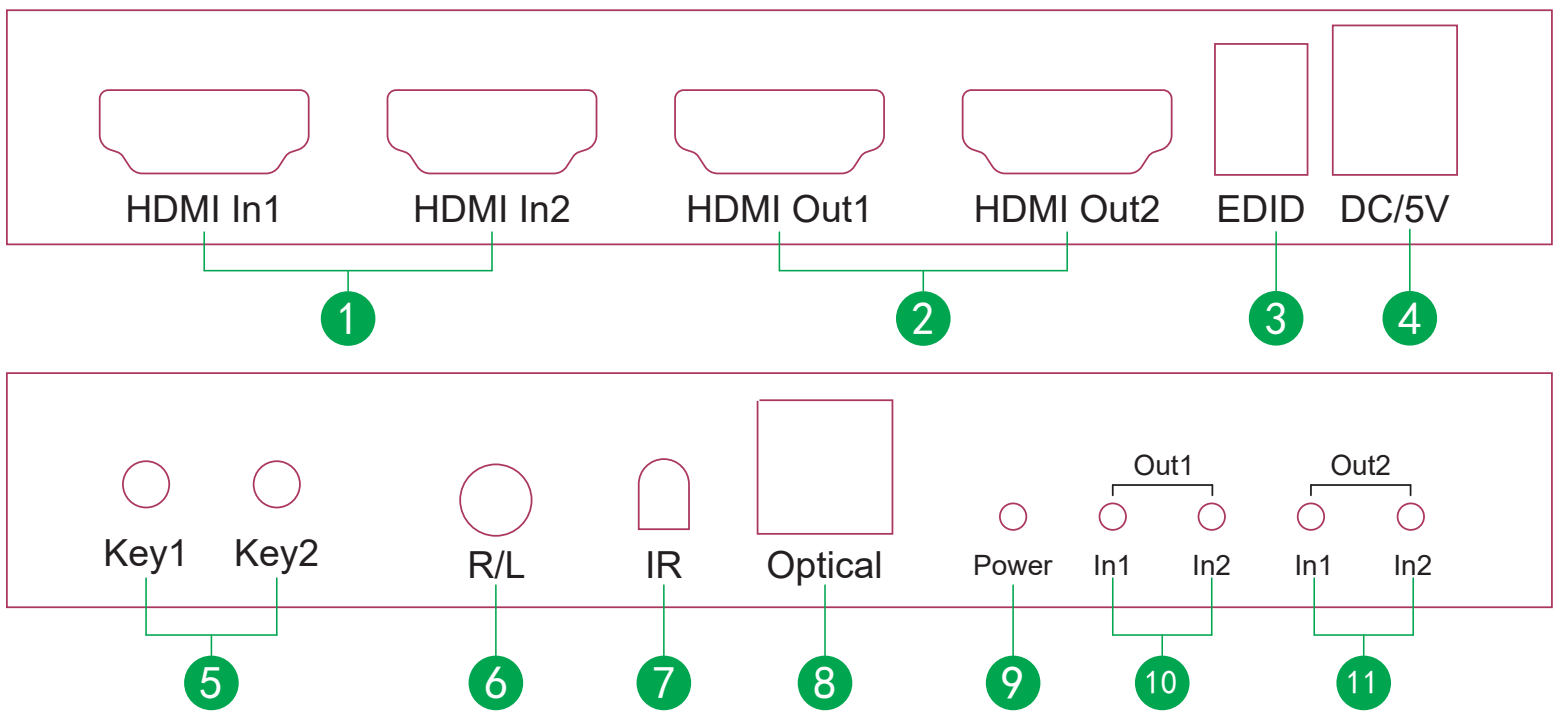
Features :

* Support 3D video format;
* Via HDMI out1, support 3.5mm earphone jack and optical output at same time;
* 2 HDMI inputs switch and split to 2 HDMI displays;
* Support LPCM/Dolby/DTS 5.1 channel;

Specifications :

HDMI resolution .....up to 3840*2160/60Hz
Support video format .....8/10/12 bit deep color
Support audio format LPCM/DTS/Dolby-AC3
Max bandwidth 600MHz
Max baud rate 3x6Gbps
Input cable distance ..... 4K/30Hz ≤15M AWG26 HDMI standard cable
4K/60Hz ≤5M HDMI 2.0 standard cable
Output cable distance ..... 4K/30Hz ≤15M AWG26 HDMI standard cable
4K/60Hz ≤5M HDMI 2.0 standard cable
Max working current 700mA
Power adapter format ..... Input: AC (50HZ, 60HZ) 100V-240V; Output: DC5V/1A
Operating Temperature range ..... (-15 to +45℃)
Operating Humidity range ..... 5 to 90%RH (No Condensation)
Dimension (L x W x H) ..... 122x80x19 (mm)
Weight 174g

Function Interface Figure :



1：HDMI In1/2 --- HDMI Input；
2：HDMI Out1/2 --- HDMI output ；
3：EDID --- EDID management ；
4：DC/5V --- 5V power supply ；
5：Key1/2 --- HDMI Video output switching button；
6：R/L --- Stereo output ；
7：IR ---IR receive ；
8：Optical --- Optical output ；
9：Power --- Power indicator ；
10: Out1-In1/2 --- HDMI Out1 signal input indicator light；
11: Out2-In1/2 --- HDMI Out2 signal input indicator light；

EDID setting

Position 1	Position 2	Function
0	0	Copy EDID from Output1
0	1	3D 4K 60Hz HDR 5.1 CH
1	0	3D 4K 30Hz 2 CH LPCM
1	1	1080P 2 CH LPCM

Noted: the dial switch to dial downward is 1, dial upward is 0.

The Remote Control instruction :



1）The four buttons on Output 1 is the corresponding input source In1/In2 which out from Output 1,In1/In2 can be switched freely.

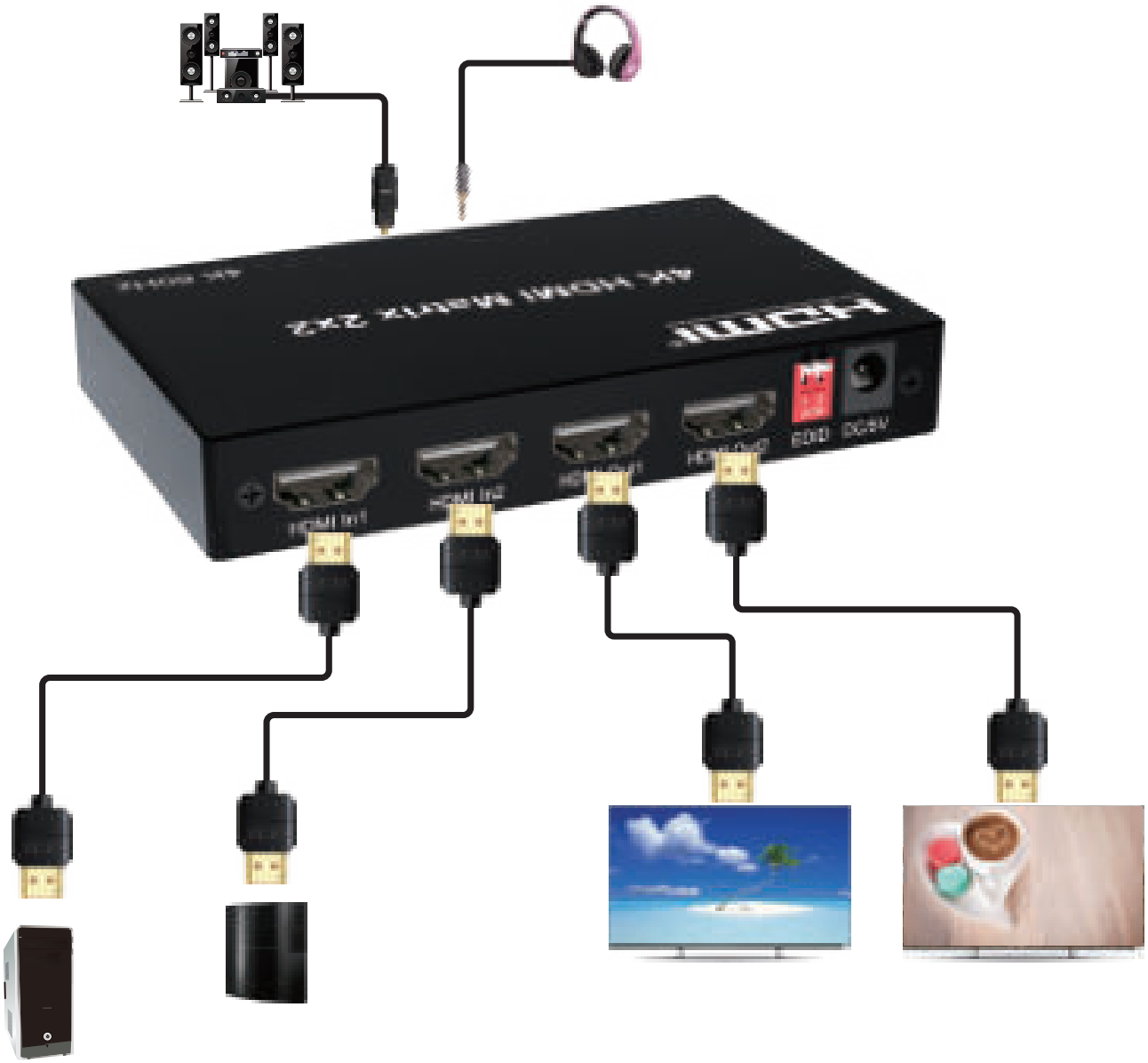
2）The four buttons on Output 2 is the corresponding input source In1/In2 which out from Output 2, In1/In2 can be switched freely.

Instruction of Buttons and LED:

1. Instruction of LED: In1-In2 indicator is the corresponding input sources out from Output 1 or Output 2.

2. Operation of Buttons: Key1 or Key2 is used to switched the corresponding input source out from Output 1 or Output 2.

Connection Diagram :



Operating and Connecting :

1. Connect each HDMI source devices and input of HDMI Matrix with HDMI cable.
2. Connect display devices and output of HDMI Matrix with HDMI cable.
3. Connect audio output and stereo amplifier with stereo headphone or fiber.
4. Connect 5V power supply to the HDMI 2x2 Matrix.
5. Use the IR remote or button control to switch the signal source freely.

NOTE: HDMI port and audio ports are connected according to user needs, not every be connected; but not reversed.

Application scenario :



TV Store



Teaching room



Video Conference

Notes :

Pls use the machine as the instruction listed to keep the long use lifetime of the machine.

1. The machine should be placed at the spot far from the Damp, High-Temperature, Dusty, Erosive, and oxidative environment.
2. All parts will be free from the strong shake, hit, fall.
3. Touching the power adaptor with the wet hands is prohibited.
4. Pls hold the power adaptor head and do not pull the power cord when cut off from the socket.
5. Pls turn the power off when the machine is not used for long time.
6. Pls do not open the cover and do not touch the inside parts.
7. Pls use the original factory power adapter.

Accessories :

1. HDMI Matrix 2x2	1PC	3. 5V power adapter	1PC
2. IR Remote Control	1PC	4. User Manual	1PC

COPA®

כומפניקס תקשורת ואלקטרוניקה בע"מ

ברגמן 8, א.ת. סגולה, פ"ת | ספק מ. הביטחון: 83524121 | ח.פ: 512109968

sales@companics.co.il | www.companics.co.il | טל' / 03-9049004

COMPANICS
Communication & Electronics LTD

כומפניקס תקשורת ואלקטרוניקה בע"מ
הבורסקאי 1 א.ת. סגולה, פ"ת | ספק מ. הביטחון: 83524121 | ח.פ: 512109968
03-9049004 / טל' | www.companics.co.il | sales@companics.co.il

HIGH-DEFINITION MULTIMEDIA INTERFACE

USER MANUAL

HDMI Matrix 2x4 (4K@60Hz)

Enjoy the vivid world

Introduction :

The HDMI matrix 2x4 can connect 2 HD signal sources to 4 HD display terminals with optical fiber and stereo headphone output at the same time via HDMI out 1 port. The matrix allows two HDMI devices to be switched or split easily to four HDMI compatible monitors or projectors.

Our devices offer solutions for noise, space and security concerns, data center control, information distribution, conference room presentation, school and corporate training environments.



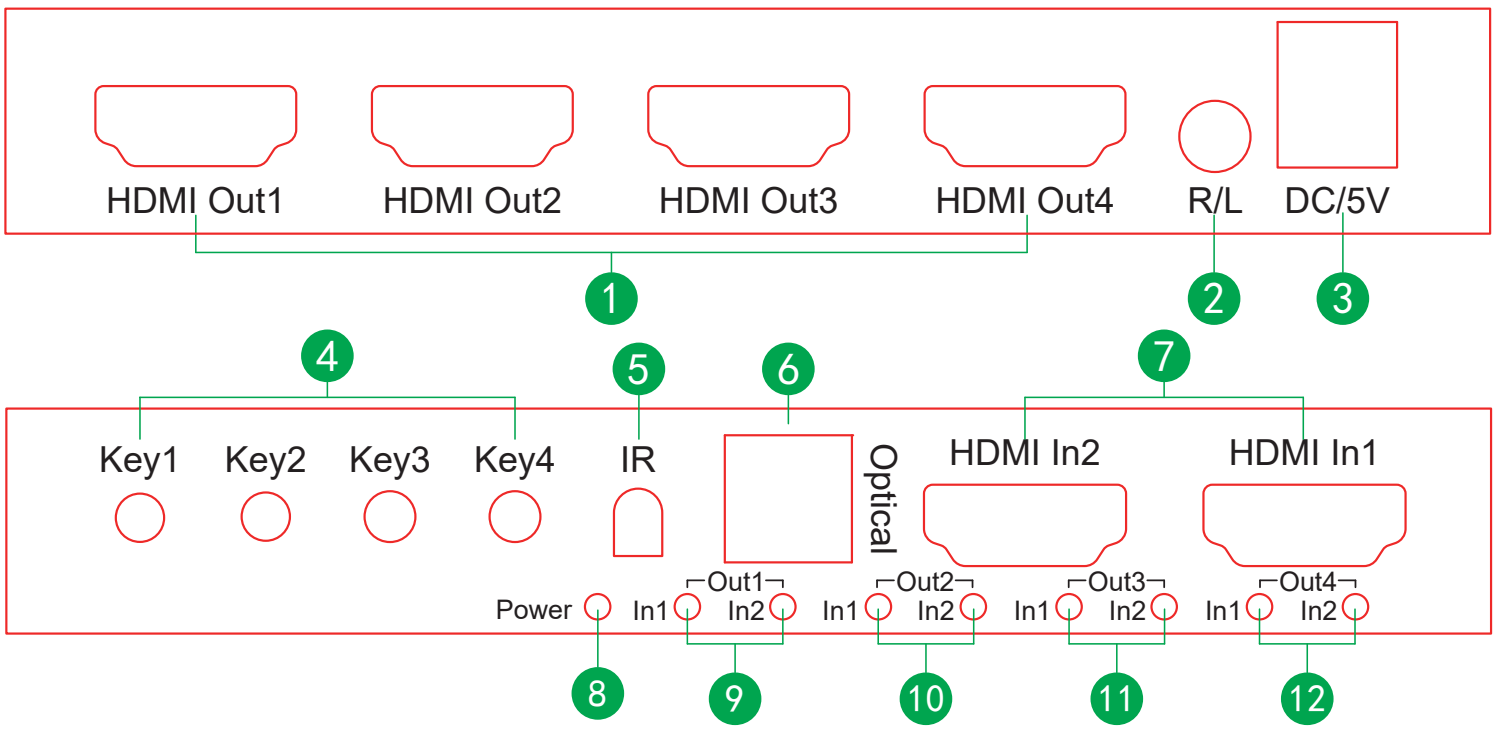
Features :

* Support 3D video format;
* Via HDMI out1, support 3.5mm earphone jack and optical output at same time;
* 2 HDMI inputs switch and split to 4 HDMI displays;
* Support LPCM/Dolby/DTS 5.1 channel;

SPECIFICATIONS :

HDMI resolution ..... up to 3840*2160/60Hz
Support video format ..... 8/10/12 bit deep color
Support audio format LPCM/DTS/Dolby-AC3
Max bandwidth 600MHz
Max baud rate 3x6Gbps
Input cable distance ..... 4K/30Hz ≤15M AWG26 HDMI standard cable
4K/60Hz ≤5M HDMI 2.0 standard cable
Output cable distance ..... 4K/30Hz ≤15M AWG26 HDMI standard cable
4K/60Hz ≤5M HDMI 2.0 standard cable
Max working current 750mA
Power adapter format ..... Input: AC (50HZ, 60HZ) 100V-240V; Output: DC5V/1A
Operating Temperature range ..... (-15 to +45℃)
Operating Humidity range ..... 5 to 90%RH (No Condensation)
Dimension (L x W x H) ..... 122x80x19 (mm)
Weight 176g

SPECIFICATIONS :



1：HDMI Out1-4 --- HDMI output；
2：R/L --- Stereo output;
3：DC/5V --- 5V power supply；
4：Key1-4 --- Video output1-4 switching button;
5：IR --- IR Receive；
6：Optical1-2 --- Optical output;
7：HDMI In1-2 --- HDMI input;
8：Power --- Power indicator ；
9: Out1/In1-2 --- HDMI Out1 signal input indicator light；
10: Out2/In1-2 --- HDMI Out2 signal input indicator light；
11: Out3/In1-2 --- HDMI Out2 signal input indicator light；
12: Out4/In1-2 --- HDMI Out2 signal input indicator light；

The Remote Control instruction :



1）The two buttons on Output1 is the corresponding input source In1-In2 which out from Output1,In1-In2 can be switched freely.

2）The two buttons on Output2 is the corresponding input source In1-In2 which out from Output2, In1-In2 can be switched freely.

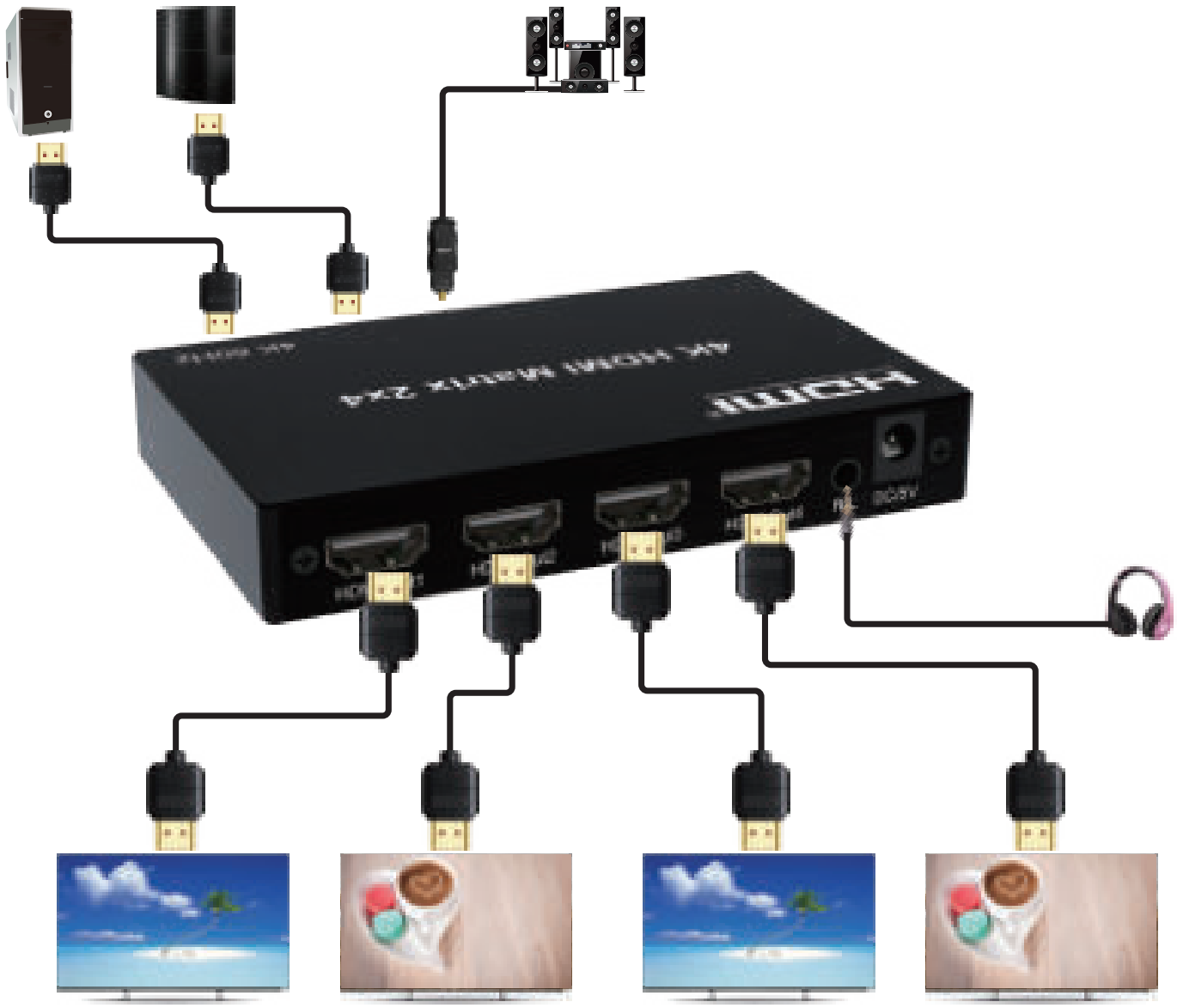
3）The two buttons on Output3 is the corresponding input source In1-In2 which out from Output3,In1-In2 can be switched freely.

4）The two buttons on Output4 is the corresponding input source In1-In2 which out from Output4, In1-In2 can be switched freely.

Instruction of Buttons and LED:

1. Instruction of LED: In1-In2 indicator is the corresponding input sources out from Output1-Output4.
2. Operation of Buttons: Key1-Key4 is used to switched the corresponding input source out from Output1-Output4.

Connection Diagram :



Operating and Connecting :

1. Connect each HDMI source devices and input of HDMI Matrix with HDMI cable.
2. Connect display devices and output of HDMI Matrix with HDMI cable.
3. Connect audio output and stereo amplifier with stereo headphone or fiber.
4. Connect 5V power supply to the HDMI 2x4 Matrix.
5. Use the IR remote or button control to switch the signal source freely.

NOTE: HDMI port and audio ports are connected according to user needs, not every be connected; but not reversed.

Application scenario :



TV Store



Teaching room



Video Conference

Notes :

Pls use the machine as the instruction listed to keep the long use lifetime of the machine.

1. The machine should be placed at the spot far from the Damp, High-Temperature, Dusty, Erosive, and oxidative environment.
2. All parts will be free from the strong shake, hit, fall.
3. Touching the power adaptor with the wet hands is prohibited.
4. Pls hold the power adaptor head and do not pull the power cord when cut off from the socket.
5. Pls turn the power off when the machine is not used for long time.
6. Pls do not open the cover and do not touch the inside parts.
7. Pls use the original factory power adapter.

Accessories :

1. HDMI Matrix 2X4	1PC	3. 5V power adapter	1PC
2. IR Remote Control	1PC	4. User Manual	1PC

COPA®

כומפניקס תקשורת ואלקטרוניקה בע"מ

ברגמן 8, א.ת. סגולה, פ"ת | ספק מ. הביטחון: 83524121 | ח.פ: 512109968

sales@companics.co.il | www.companics.co.il | טל' / 03-9049004

COMPANICS
Communication & Electronics LTD

כומפניקס תקשורת ואלקטרוניקה בע"מ
הבורסקאי 1 א.ת. סגולה, פ"ת | ספק מ. הביטחון: 83524121 | ח.פ: 512109968
03-9049004 / טל' | www.companics.co.il | sales@companics.co.il

HIGH-DEFINITION MULTIMEDIA INTERFACE

USER MANUAL

HDMI Matrix 4x2
(4K@60Hz)

Enjoy the vivid world

Introduction :

The HDMI matrix 4x2 can connect 4 HD signal sources to 2 HD display terminals with optical fiber and stereo headphone output at the same time via HDMI out 1 port . The matrix allows four HDMI devices to be switched or split easily to two HDMI compatible monitors or projectors.

Our devices offer solutions for noise, space and security concerns, data center control, information distribution, conference room presentation, school and corporate training environments.



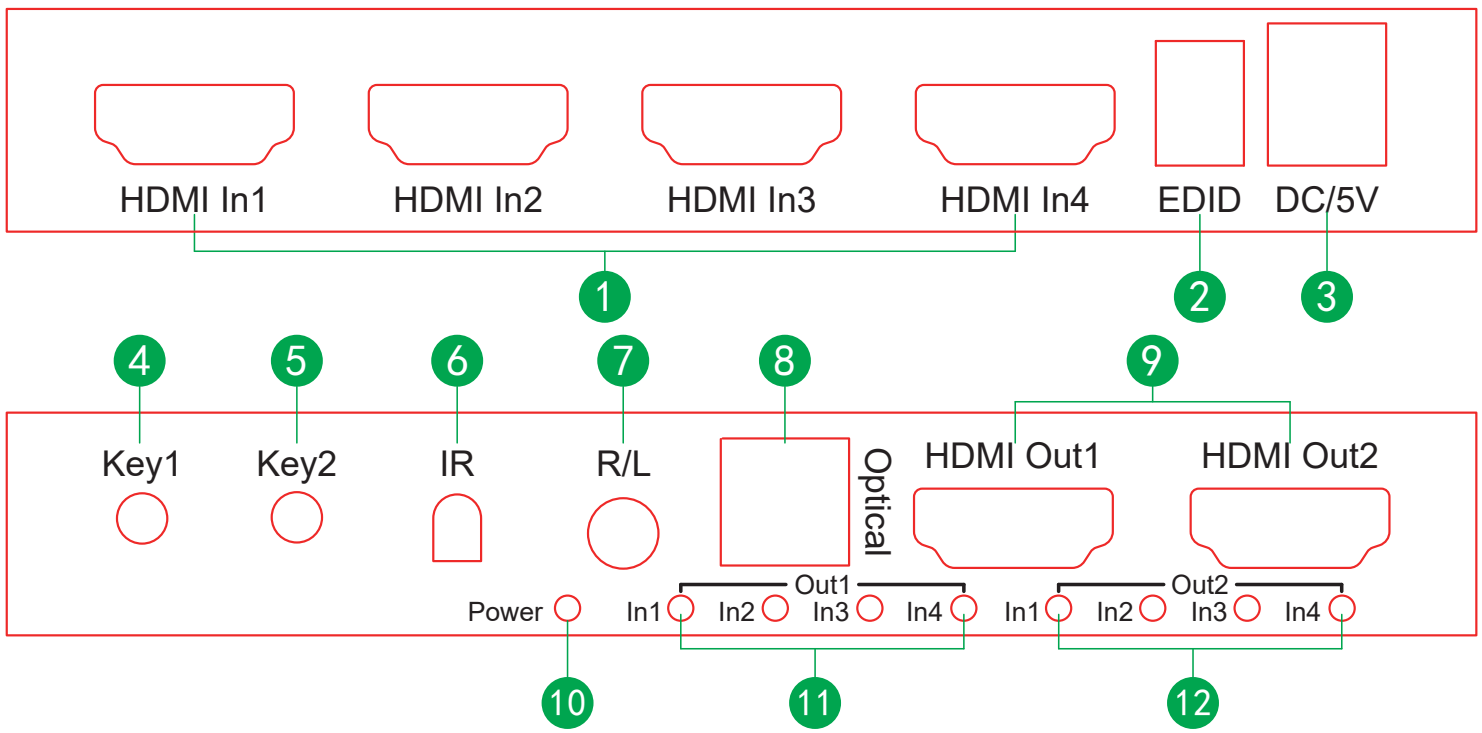
Features :

* Support 3D video format;
* Via HDMI out1, support 3.5mm earphone jack and optical output at same time;
* 4 HDMI inputs switch and split to 2 HDMI displays;
* Support LPCM/Dolby/DTS 5.1 channel;

SPECIFICATIONS :

HDMI resolution .....up to 3840*2160/60Hz
Support video format .....8/10/12 bit deep color
Support audio format LPCM/DTS/Dolby-AC3
Max bandwidth 600MHz
Max baud rate 3x6Gbps
Input cable distance ..... 4K/30Hz ≤15M AWG26 HDMI standard cable
4K/60Hz ≤5M HDMI 2.0 standard cable
Output cable distance ..... 4K/30Hz ≤15M AWG26 HDMI standard cable
4K/60Hz ≤5M HDMI 2.0 standard cable
Max working current 900mA
Power adapter format ..... Input: AC (50HZ, 60HZ) 100V-240V; Output: DC5V/1.5A
Operating Temperature range ..... (-15 to +45℃)
Operating Humidity range ..... 5 to 90%RH (No Condensation)
Dimension (L x W x H) ..... 122x80x19 (mm)
Weight 180g

SPECIFICATIONS :



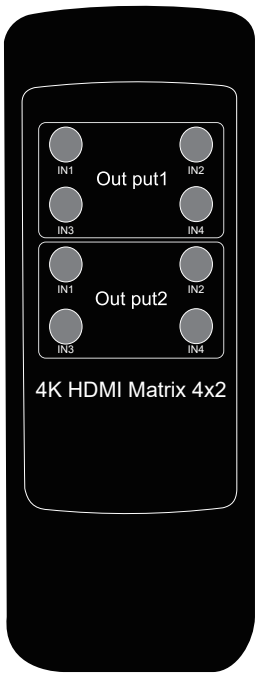
1：HDMI IN1-4 --- HDMI Input；
2：EDID --- EDID management ；
3：DC/5V --- 5V power supply ；
4：Key1 --- HDMI Video output switching button；
5：Key2 --- HDMI Video output switching button；
6：IR ---IR receive ；
7：R/L --- Stereo output ；
8：Optical --- Optical output ；
9：HDMI OUT1-2 --- HDMI output ；
10：Power --- Power indicator ；
11: Out1/In1-4 --- HDMI Out1 signal input indicator light；
12: Out2/In1-4 --- HDMI Out2 signal input indicator light；

EDID setting

Position 1	Position 2	Function
0	0	Copy EDID from Output1
0	1	3D 4K 60Hz HDR 5.1 CH
1	0	3D 4K 30Hz 2 CH LPCM
1	1	1080P 2 CH LPCM

Noted: the dial switch to dial downward is 1, dial upward is 0.

The Remote Control instruction :



1）The four buttons on Output 1 is the corresponding input source IN1-IN4 which out from Output 1,IN1-IN4 can be switched freely.

2）The four buttons on Output 2 is the corresponding input source IN1-IN4 which out from Output 2, IN1-IN4 can be switched freely.

Instruction of Buttons and LED:

1. Instruction of LED: IN1-IN4 indicator is the corresponding input sources out from Output 1 or Output 2.

2. Operation of Buttons: Key1 or Key2 is used to switched the corresponding input source out from Output 1 or Output 2.

Connection Diagram :

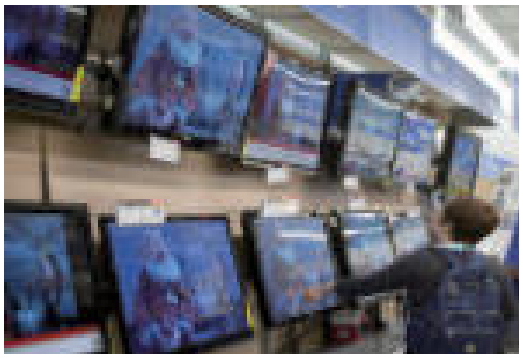


Operating and Connecting :

1. Connect each HDMI source devices and input of HDMI Matrix with HDMI cable.
2. Connect display devices and output of HDMI Matrix with HDMI cable.
3. Connect audio output and stereo amplifier with stereo headphone or fiber.
4. Connect 5V power supply to the HDMI 4x2 Matrix.
5. Use the IR remote or button control to switch the signal source freely.

NOTE: HDMI port and audio ports are connected according to user needs, not every be connected; but not reversed.

Application scenario :



TV Store



Teaching room



Video Conference

Notes :

Pls use the machine as the instruction listed to keep the long use lifetime of the machine.

1. The machine should be placed at the spot far from the Damp, High-Temperature, Dusty, Erosive, and oxidative environment.
2. All parts will be free from the strong shake, hit, fall.
3. Touching the power adaptor with the wet hands is prohibited.
4. Pls hold the power adaptor head and do not pull the power cord when cut off from the socket.
5. Pls turn the power off when the machine is not used for long time.
6. Pls do not open the cover and do not touch the inside parts.
7. Pls use the original factory power adapter.

Accessories :

1. HDMI Matrix 4x2	1PC	3. 5V power adapter	1PC
2. IR Remote Control	1PC	4. User Manual	1PC

COPA®

כומפניקס תקשורת ואלקטרוניקה בע"מ

ברגמן 8, א.ת. סגולה, פ"ת | ספק מ. הביטחון: 83524121 | ח.פ: 512109968

sales@companics.co.il | www.companics.co.il | טל' / 03-9049004