

4KCHANGER-TC2

4K MULTI INPUT CONVERTER



Introduction

aegis' s 4KCHANGER-TC2 is a multi-format connectivity table box that support 4 different inputs: Type-C, VGA+3.5mm Audio, Mini DP & HDMI to a HDMI output and with an 30M extender. It has both auto-detection and manual selection button to switch output from 4 input sources. It also features 2 USB charging port to charge your mobile device and an Ethernet pass-through port for Internet connectivity. The RJ45 connect to an extender that supports a 30M AV signal extension with PoC function. 4KCHANGER-TC2 offers stylish integration into your modern conference or control room with a discreet hideaway panel. It supports for high resolutions up to 4K/60Hz ensures the quality of your presentation is maintained. It is a flexible, efficient and excellent AV converter table box that design for conference room, classroom, and control room and even for hotel rooms!

Features

- HDMI Source device includes SetTop Box, BD Player, Computer, Laptop, Game Console, Media Player and Camcorder.
- HDMI Sink device includes LED/LCD Monitor, LED/LCD TVs, Projector and AV Receiver.
- Mini DisplayPort Source device includes Computer, Laptop and Tablet.
- VGA Source device includes Computer and Laptop.
- USB 3.1 Type C Source device includes Computer, Laptop, Tablet and Mobile Phone.
- HDMI 2.0 Premium Certified Cable-Highly recommended
- Mini DisplayPort 1.2 Certified Cable-Highly recommended.
- USB 3.1C Certified Cable-Highly recommended.

Specification

Transmitter Specification

HDMI Bandwidth	600MHz / 18.0Gbps
HDMI Resolution	480P, 720P, 1080P/24, 30, 50, 60Hz, 4Kx2K/24, 30, 60Hz.
Mini DisplayPort Resolution	800x600, 1024x768, 10280x1024, 1600x900, 1600x1200,
	1920x1080, 1920x1200, 2560x1440, 3840x2160, 4096x2160
VGA Resolution	1024x768, 1280x1024, 1600x900, 1600x1200, 1920x1080
USB 3.1 C Resolution	1024x768, 10280x1024,1600x900, 1600x1200, 1920x1080
	1920x1200, 2560x1440, 3840x2160, 4096x2160
HDMI Output Resolution	480P, 720P, 1080P/24, 30, 50, 60Hz, 4Kx2K/24, 30, 60Hz.
	VGA video in only supports 1920x1080p as output resolution
Audio Format	PCM 2 Channel at 48KHz
HDCP	2.2
Input Port	Mini DisplayPort X 1
	HDMI X 1
	VGA X 1

	Audio X 1 -3.5mm Stereo Jack
	USB 3.1 C X 1
	Ethernet X 1 - RJ45 at Cat.5e/6 (Pass Thru)
Output Port	RJ45 X 1
	USB 2.0 A X 1 -5V/ 1.5 Amp -BC 1.2
	USB 3.1 C X 1- 5V/ 2.0 Amp
	Ethernet X 1 - RJ45 at Cat.5e/6 (Pass Thru)
Control Port	Select button X 1 -
Power Supply	24VDC / 1.5 Amp (US / UK / AUS / EU Power Plug)
Power Consumption	36 W - Max.
Chassis Material	Metal
Panel Color	Silver
Operating Temperature	0°C -40°C / 32°F -104°F
Storage Temperature	-15°C -55°C / 5°F -131°F
Humidity	5 - 85% RH (Non-Condensing)
Dimension LXWXH	7.2 in (184 mm) X 3.1 in (80 mm) X 3.6 in (90 mm)
Weight	736 g

Receiver Specification

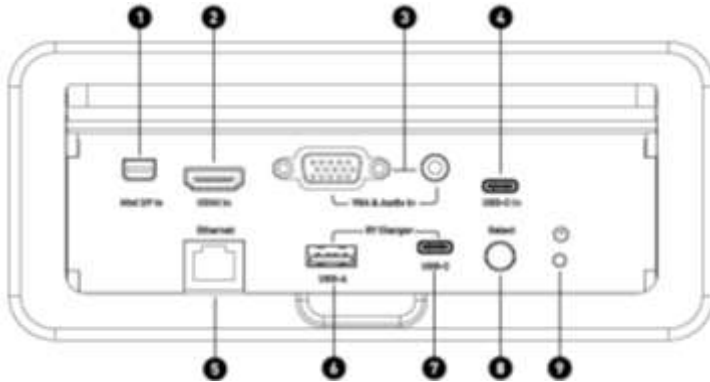
HDMI Bandwidth	225MHz / 6.75Gbps
HDMI Output Resolution	480P, 720P, 1080P/24, 30, 50, 60Hz, 4Kx2K/50, 60Hz.
Resolution	VGA video in only supports 1920x1080p as output resolution
Audio Format	PCM 2 Channel at 48KHz
HDCP	2.2
Input Port	RJ45 X 1
Output Port	HDMI X 1
Power Supply	POC
Chassis Material	Metal
Chassis Color	Black
Operating Temperature	0°C -40°C / 32°F -104°F
Storage Temperature	-15°C -55°C / 5°F -131°F
Humidity	5 - 85% RH (Non-Condensing)
Dimension LXWXH	4.3 in (110 mm) X 2.17 in (55 mm) X 0.94 in (24 mm)
Weight	125 g

CONNECTION DIAGRAM



PANEL INTRODUCTION

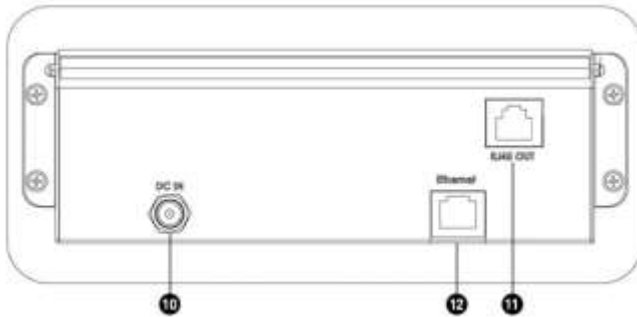
Front Panel



1. Mini DP In: Connect to Mini DisplayPort source device, such as Computer, Laptop and Tablet.
2. HDMI In: Connect to HDMI sink devices, such as LED/LCD Monitor, LED/LCD TVs, Projector and AV Receiver.
3. VGA & Audio In: Connect to VGA & Audio source device, such as Computer and Laptop.
4. USB-C In: Connect to USB 3.1 C source device, such as Computer, Laptop, Tablet and Mobile Phone. These devices must provide video signal output.
5. Ethernet: Connect local Internet network system. Computer and Laptop can use Cat.5e/6 cable to connect Ethernet for internet service.
6. USB-A: Support 5V / 1.5 Amp power charging to Mobile Phone.

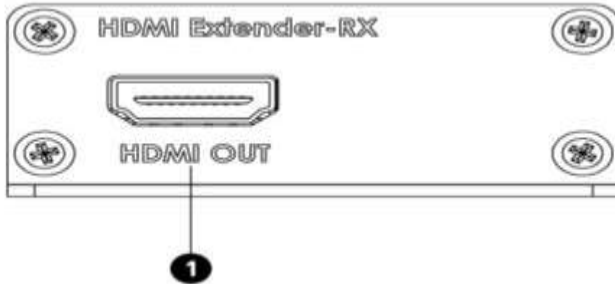
7. USB-C: Support 5V / 2.0 Amp power charging to Mobile Phone.
8. Select: Switching different video input sources, such as Mini DP, HDMI, VGA & Audio and USB-C.
9. Power LED: This LED will illuminate when power adapter plug in 4KCHANGER-TC2.

Rear Panel



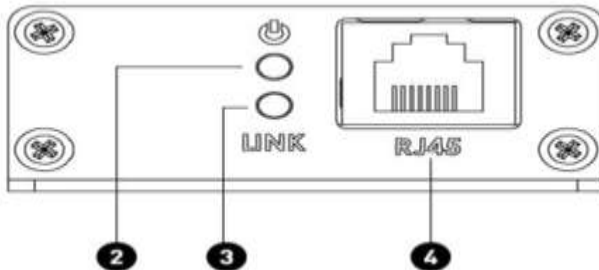
10. DC 24V: 24VDC / 1.5 Amp Locking Power jack.
11. RJ45 Out: Connect to 4KCHANGER-TC2 Receiver with single Cat.6 cable
12. Ethernet: to connect local Internet network system to provide internet service.

Front Panel



1. HDMI OUT: Connect to HDMI sink devices, such as LED/LCD Monitor, LED/LCD TVs, Projector and AV Receiver.

Rear Panel



2. Power LED: This LED will illuminate when power delivery (POC) from 4KCHANGER-TC2.
3. LINK LED: This LED will illuminate when Receiver connect 4KCHANGER-TC2 Transmitter and all signal start to transmission.
4. RJ45: Connect to 4KCHANGER-TC2 Transmitter with single Cat.6 cable.

Note:

4KCHANGER-TC2 supports Auto-detect for 4 different AV input sources.

When you plug in HDMI cable to 4KCHANGER-TC2 from HDMI device, 4KCHANGER-TC2 will automatically connect HDMI signal and show video on the HDMI Display via extender

When HDMI cable plug in 4KCHANGER-TC2 from HDMI device by first end-user, second end-user can plug in USB 3.1C cable to 4KCHANGER-TC2 from Mobile Phone, 4KCHANGER-TC2 will automatically connect USB 3.1C signal and show video on the HDMI Display.

4KCHANGER-TC2 also design a select button to switch 4 different AV input sources .You just press select button to switch one of AV input source as you want.

Resolution Specifications

Mini DisplayPort Port Resolution

Supported Resolutions (Hz)	Mini DisplayPort Input
<u>800x600p @60 75</u>	V
<u>1024x768p @60 75</u>	V
<u>1152x864p @75</u>	V
<u>1280x720p @60</u>	V
<u>1280x768p @60</u>	V
<u>1280x800p @60</u>	V
<u>1280x960p @60</u>	V
<u>1280x1024p @60 75</u>	V
<u>1360x768p @60</u>	V
<u>1366x768p @60</u>	V
<u>1600x900p @60</u>	V
<u>1600x1200p @50 60</u>	V
<u>1680x1050p @60</u>	V
<u>1920x1080p @60</u>	V
<u>1920x1200p @60</u>	V

<u>1920x1440p@60</u>	V
<u>2560x1440p@60</u>	V
<u>2560x1600p@60</u>	V
<u>3840x2160p@60</u>	V

HDMI Port Resolution

Supported Resolutions (Hz)	HDMI Input
<u>720x400p@70 85</u>	V
<u>640x480p@60 72 75 85</u>	V
<u>720x480i@60</u>	V
<u>720x480p@60</u>	V
<u>720x576i@50</u>	V
<u>720x576p@50</u>	V
<u>800x600p@56 60 72 75 85</u>	V
<u>848x480p@60</u>	V
<u>1024x768p@60 70 75 85</u>	V
<u>1152x864p@75</u>	V
<u>1280x720p@50 60</u>	V
<u>1280x768p@60RB/60 75 85</u>	V
<u>1280x800p@60RB/60 75 85</u>	V
<u>1280x960p@60 85</u>	V
<u>1280x1024p@60 75 85</u>	V
<u>1360x768p@60</u>	V
<u>1366x768p@60RB 60</u>	V
<u>1400x1050p@60RB 60</u>	V
<u>1440x900p@60RB 60 75</u>	V
<u>1600x900p@60RB</u>	V

<u>1600x1200p@60</u>	V
<u>1680x1050p@60RB 60</u>	V
<u>1920x1080i@50 60</u>	V
<u>1920x1080p@24 25 30</u>	V
<u>1920x1080p@50 60</u>	V
<u>1920x1200p@60RB</u>	V
<u>2560x1440p@60RB</u>	V
<u>2560x1600p@60RB</u>	V
<u>2048x1080p@24 25 30</u>	V
<u>2048x1080p@50 60</u>	V
<u>3840x2160p@24 25 30</u>	V
<u>3840x2160p@50 60 (4:2:0)</u>	V
<u>3840x2160p@50 60</u>	V

VGA Port Resolution

Supported Resolutions (Hz)	VGA Input
800x600p@60 75	V
1024x768p@60 75	V
1280x720p@60	V
1280x800p@60	V
1280x960p@60	V
1280x1024p@60 75	V
1360x768p@60	V
1440x900@60	V
1600x900p@60	V
1600x1200p@60	V
1680x1050p@60	V
1920x1080p@60	V

USB 3.1C Port Resolution

Supported Resolutions (Hz)	USB 3.1C Input
<u>800x600p@60 75</u>	V
<u>1024x768p@60 75</u>	V
<u>1152x864p@75</u>	V
<u>1280x720p@60</u>	V
<u>1280x768p@60</u>	V
<u>1280x800p@60</u>	V
<u>1280x960p@60</u>	V
<u>1280x1024p@60 75</u>	V
<u>1360x768p@60</u>	V
<u>1366x768p@60</u>	V
<u>1600x900p@60</u>	V
<u>1600x1200p@50 60</u>	V
<u>1680x1050p@60</u>	V
<u>1920x1080p@60</u>	V
<u>1920x1200p@60</u>	V
<u>1920x1440p@60</u>	V
<u>2560x1440p@60</u>	V
<u>2560x1600p@60</u>	V
<u>3840x2160p@60</u>	V

Cable Specifications

Cable Length-Input	1080p/60Hz 8 bit	4K/30Hz 8 bit 4:4:4	4K/60Hz 8 bit 4:4:4
HDMI High Speed Cable	10m	5m	2m
Mini DisplayPort Cable	5m	3m	2m
VGA Cable	7m	X	X
USB 3.1 Type C Cable	1m	1m	1m

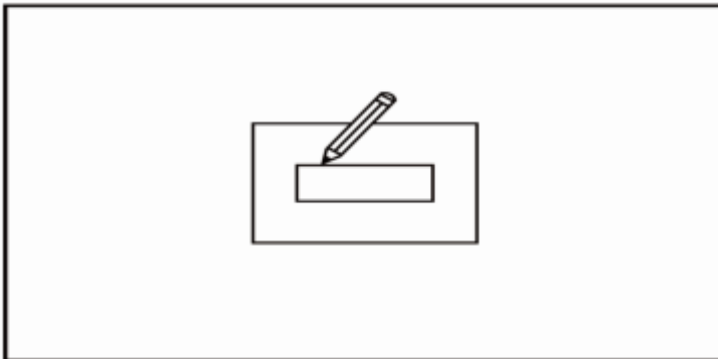
Cable Length-Output	1080p/60Hz 8 bit	4K/30Hz 8 bit 4:4:4	4K/60Hz 8 bit 4:4:4
HDMI High Speed Cable	4m	3m	2m
Cat.6/6e/7	60m	50m	35m

INSTALLATION

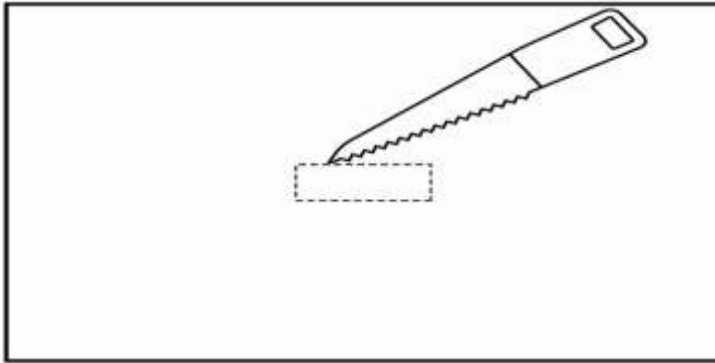
Caution: Before installation, Please test the 4KCHNGER-TC2 box functionality with your equipment to make sure compatibility.

Note: aegis Multimedia Inc. is not responsible for damage of your table surface. Be ensure to the following instruction, when cutting your table surface.

1. Using the Template card to trace the inner rectangle on the table surface in your location.



- Carefully cut the inner rectangle hole in your desired location.



- Install the 4KCHANGER-TC2 box to the rectangle hole in your table.



- Under the rectangle hole of table, using each mounting screw slot on either side of 4KCHANGER-TC2 Transmitter.
- Twist the mounting screw in a counterclockwise direction. Be ensure the head of screw are fixed tightly. Please do not overtighten the screw.

6. From RJ45 output port of 4KCHANGER-TC2 Transmitter to connect RJ45 port of 4KCHANGER-TC2 Receiver by single Cat.6/6e/7 cable. (Sold separately).
7. From Ethernet port of 4KCHANGER-TC2 Transmitter to connect your local Network device by single Cat.5e/6 cable (Sold separately).
8. From locking power port of 4KCHANGER-TC2 Transmitter to connect your local power outlet by Universal locking power adapter.
9. From HDM output port of 4KCHANGER-TC2 Receiver to connector your HDMI display device by single HDMI cable. (Sold separately).