

TAP-AV-1004

4K MULTI INPUT CONVERTER



User Manual

Version: 20241024

Introduction

aegis' TAP-AV-1004 is a 4 inputs to HDMI Converter Box allows 4 different sources, Analog video & audio, VGA+3.5mm audio, mini DisplayPort & HDMI signal & USB-C in input and convert to HDMI signal output. This model has source auto detect function, so the user can switch the input source without press the button. The HDMI output resolution can up to 4K2K@60. This converter box is very convenient for user to have different audio/video devices to connect their TV/Monitor with HDMI port

Features

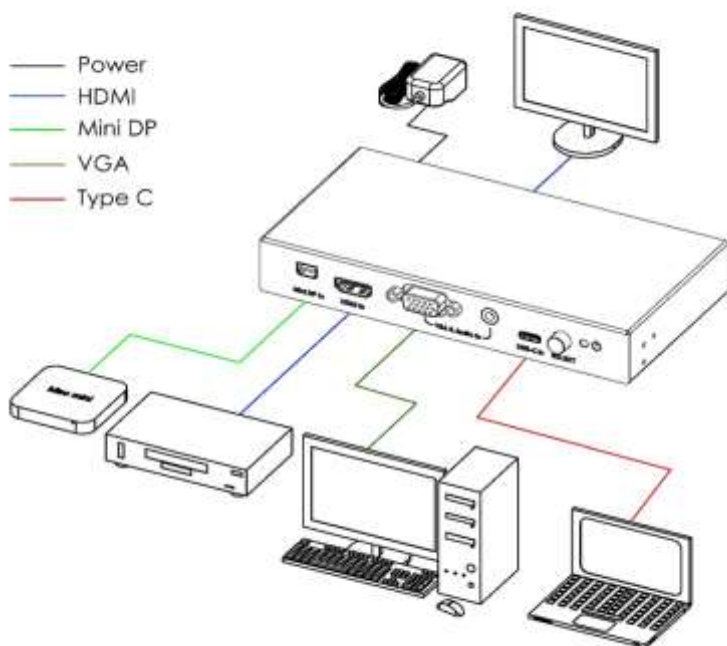
- Allow 4 different source, Analog Audio & Video, VGA+3.5mm audio, mini DisplayPort and HDMI input and convert HDMI output.
- Source auto detect function
- Support HDMI output up to 4K2K@60Hz.

Specification

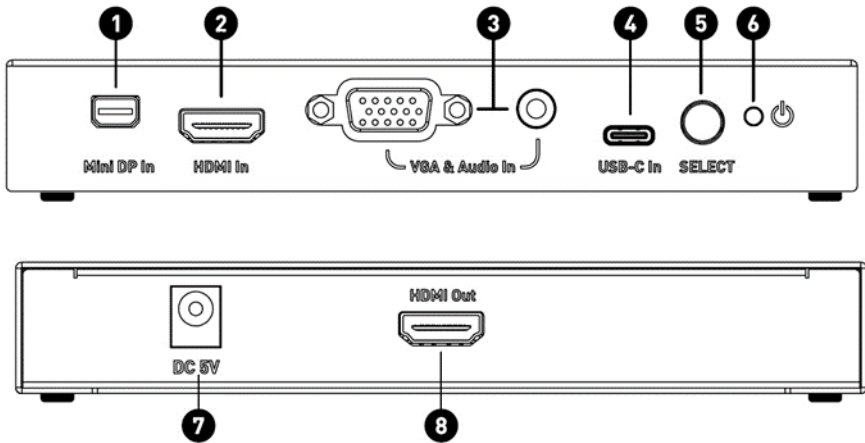
HDMI Bandwidth	600MHz / 18.0Gbps
HDMI Resolution	480P,720P,1080P/24,30,50,60Hz, 4Kx2K/24,30,60Hz.
Mini DisplayPort Resolution	800x600, 1024x768, 10280x1024,1600x900, 1600x1200, 1920x1080, 1920x1200, 2560x1440, 3840x2160, 4096x2160
VGA Resolution	1024x768, 1280x1024, 1600x900, 1600x1200, 1920x1080
USB 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.
Audio Format	PCM 2 Channel at 48KHz
HDCP	2.2
Input Port	Mini DisplayPort X 1 HDMI 2.0 X 1 VGA X 1 Audio X 1 -3.5mm Stereo Jack USB 3.1 C X 1
Output Port	HDMI 2.0 X1
Control Port	Select button X 1 -

Power Supply	24VDC / 1.5 Amp
Power Consumption	36 W - Max.
Chassis Material	Metal
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	6.1 in (155 mm) X 3.1 in (80 mm) X 0.9 in (24 mm)
Weight	360 g

CONNECTION DIAGRAM



PANEL INTRODUCTION



1. Mini DP Input

Connect mini DisplayPort cable between this port and mini DisplayPort output port of source device.

2. HDMI Input

Connect HDMI cable between this port and HDMI output port of source device.

3. VGA+3.5mm Audio Input

Connect VGA+3.5mm Audio cable between this port and VGA+ 3.5mm Audio output port of source device.

4. USB-C input

Connect Type-C Cable between this input port and Type C output port of source device.

5. Select Button

Select input source, Mini DisplayPort, HDMI, VGA+3.5mm Audio or USB-C.

6. Power LED

Power LED indicator

7. Power Input

Connect 5V DC power supply to the power port.

8. HDMI Output

Connect HDMI cable between this port and display device. (Max. 5 Meter)

Note:

TAP-AV-1004 supports Auto-detect for 4 different AV input sources. When you plug in HDMI cable to TAP-AV-1004 from HDMI device, TAP-AV-1004 will automatically connect HDMI signal and show video on the HDMI Display.

It displays the last source plug in. TAP-AV-1004 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
<u>800x600p@60 75</u>	V
<u>1024x768p@60 75</u>	V
<u>1280x720p@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>1440x900@60</u>	V
<u>1600x900p@60</u>	V
<u>1600x1200p@60</u>	V
<u>1680x1050p@60</u>	V
<u>1920x1080p@60</u>	V

USB 3.1C Port Resolution

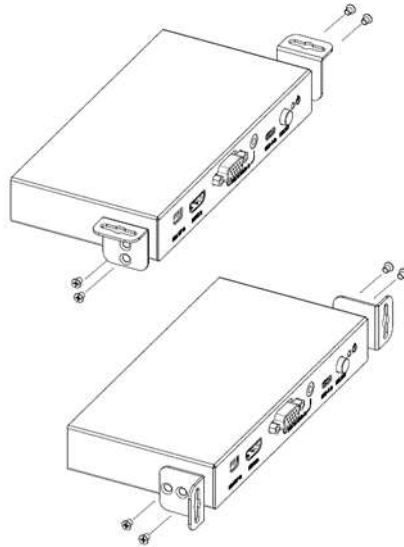
Supported Resolutions (Hz)	USB 3.1C Input
<u>800x600p@60 75</u>	V
<u>1024x768p@60 75</u>	V
<u>1152x864p@75</u>	V
<u>1280x720p@60</u>	V
<u>1280x768p@60</u>	V
<u>1280x800p@60</u>	V
<u>1280x960p@60</u>	V
<u>1280x1024p@60 75</u>	V
<u>1360x768p@60</u>	V
<u>1366x768p@60</u>	V
<u>1600x900p@60</u>	V
<u>1600x1200p@50 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

CONNECTION AND OPERATION



1. Connect 5V DC power supply to the power port of the converter box.
2. Connect one HDMI Cable between the HDMI input port of converter box and source device.
3. Connect one VGA+3.5mm Cable between the VGA+3.5mm input port of converter box and source device.
4. Connect one Type C Cable between the Type C input port of converter box and source device.
5. Connect one Mini Display port cable between the Mini Display port input port of converter box and source device.

6. Connect one HDMI cable between output port of converter box and Display device.(Max. 10 Meter / AWG24)
7. All Sources can be auto detected, or you can press the switch button to select the source.
8. Rack mounting positions: