

# **Globalmediapro Fantail HA66**

**HD Audio Center**

**Operation Manual**

# CONTENTS

<b>1. Introduction</b> .....	<b>1</b>
<b>2. Applications</b> .....	<b>1</b>
<b>3. Package Contents</b> .....	<b>1</b>
<b>4. System Requirements</b> .....	<b>2</b>
<b>5. Features</b> .....	<b>2</b>
<b>6. Operation Controls and Functions</b> .....	<b>4</b>
6.1 Front Panel .....	4
6.2 Rear Panel.....	5
6.3 Top Panel .....	6
6.4 Remote Control.....	6
6.5 OLED Menu .....	7
<b>7. Connection Diagram</b> .....	<b>8</b>
<b>8. Specifications</b> .....	<b>9</b>
<b>9. Acronyms</b> .....	<b>10</b>

## 1. INTRODUCTION

The HD Audio Center is designed to allow multiple audio sources to be controlled, switched and output to a variety of audio equipment. With its 6 audio inputs (including an HDMI input) and 6 audio outputs (including a 6.3mm headphone output) you can integrate and convert any digital or analog audio source to any type of amplifier or active speakers.

This device has an built-in sampling rate converter which can upscale audio signals between 44.1 kHz to 192 kHz (24-bit). With HDMI connectivity, it allows the user to embed or de-embed audio within the HDMI signal path.

For professionals, the Ti TPA6120A2 headphone amplifier, XLR (Low-noise Professional Balanced output) and 6.3mm headphone jack (3.5 mini-jack adaptor supplied) offer unparalleled audio quality. With a highly accurate PLL and low jitter reduction clock system, and with an OLED display and IR remote for controlling the device the HD Audio Center is an incredibly useful tool for getting the most out of your audio devices.

## 2. APPLICATIONS

- Multiple input/output Audio Center
- Audio format and sampling rate conversion
- Professional audio system integration with XLR balanced outputs
- Mac/PC USB audio output support
- Analog to digital or digital to analog audio conversion
- HDMI audio embedding or de-embedding

## 3. PACKAGE CONTENTS

- 1×HD Audio Center
- 1×Remote Control (with battery)
- 1×6.3mm to 3.5mm Headphone Adaptor
- 1×Software CD
- 1×5 V/3 A DC Power Adaptor
- Operation Manual

## 4. SYSTEM REQUIREMENTS

Input source equipment such as PC (USB) or DVD player with relevant connection cables and output to amplifier, active speakers or headphones

## 5. FEATURES

### Main

- 6 Input, 6 Output HD Audio Center
- 4 Digital Inputs, 2 Analog Inputs
- 3 Digital Outputs, 2 Analog Outputs and Headphone Output
- Full system control from IR remote or main control dial via OLED display.

### Digital

- HDMI, USB, Optical and Coaxial digital audio inputs support LPCM stereo
- HDMI input supports LPCM stereo in all modes but can pass surround sound signal whilst in bypass mode
- All digital inputs support 192kHz sampling rate at up to 24-bit resolution
- HDMI, Optical and Coaxial digital outputs
- All digital inputs can be SRC (Sample Rate Conversion) to 44.1, 48, 88.2, 96, 176.4 and 192 kHz via DSP Engine (Digital Signal Processing)
- Highly accurate PLL and low jitter reduction clock system
- HDMI Audio output (video is always bypassed to HDMI output) can either output the incoming HDMI (HDMI Bypass Mode) or embed the selected audio signal (HDMI Input Mode)

### Analog

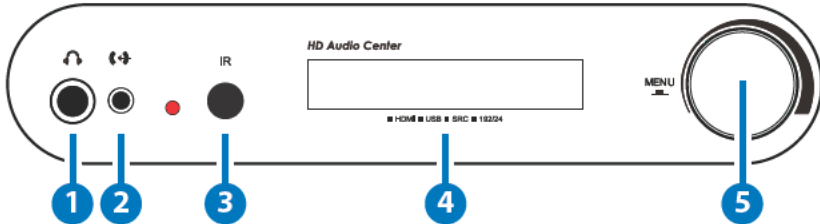
- Built-in Ti TPA6120A2 high quality headphone amplifier output
- Professional XLR balanced stereo output
- RCA analog stereo output
- RCA analog stereo input
- Mini-jack (3.5mm) stereo input
- Total Harmonic Distortion (THD): Less than 100dB (-20dBFS)
- Analog inputs provide digital output sampling rates up to 192 kHz

## **Misc**

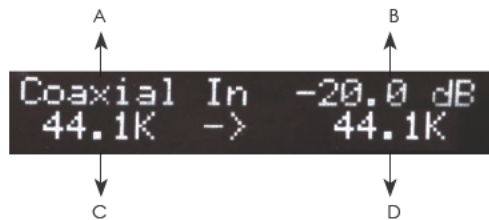
- IR Remote with direct source, power and mute buttons
- HDMI audio embedding or de-embedding
- Volume control of analog and headphone outputs or just headphone output via remote or main control dial
- Direct power and mute button on unit
- High viewing angle OLED display
- Headphone output fades in after system is muted
- 6.3mm headphone output (3.5mm mini-jack adaptor supplied)

## 6. OPERATION CONTROLS AND FUNCTIONS

### 6.1 Front Panel



- 1 6.3mm Headphone Output:** Connect to 6.3mm professional headphone set for user to enjoy the individual professional audio sound.
- 2 3.5mm Line-level Input:** Connect 3.5mm mini-jack cable to any audio equipment for stereo input audio signal.
- 3 IR:** IR receiver window. Accepts the IR signal from the supplied remote control.
- 4 OLED:** Displays the input/output selection, volume setting, sampling rate and audio channels.

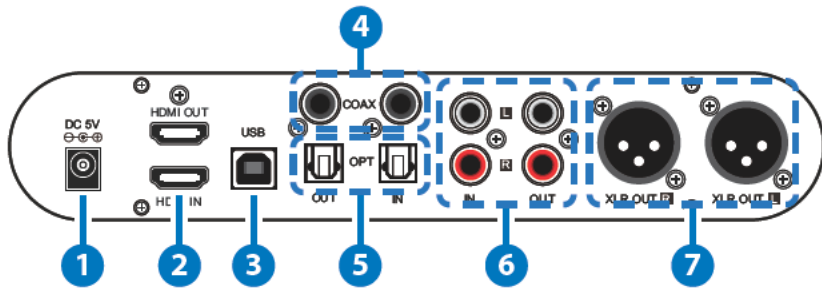


- A. Input source  
B. Headphone or analog line level volume or system mute  
C. Input sampling rate  
D. Output sampling rate

- 5 MENU/VOLUME Controller:** Turn to adjust the volume. Press inwards to enter into the menu and turn it to select the desire setting, press again to confirm the selection.

*Note: The Volume and Mute functions only affect the headphone and analog line-out volume levels, all other outputs are not affected.*

## 6.2 Rear Panel



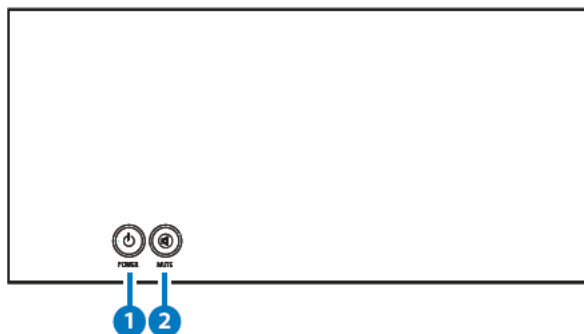
- 1 DC 5V:** Plug the 5V DC power supply into the unit and connect the adaptor to an AC outlet.
- 2 HDMI IN/OUT:** Connect to an HDMI source such as a satellite box or DVD Audio player and output to an HDMI HDTV/AV Receiver for display output.
- 3 USB:** Connect to a PC/MAC source for USB audio signal input.
- 4 COAX OUT/IN:** Connect the COAX IN to a coaxial digital audio input source such as set-top box or CD player and the COAX OUT to an amplifier or active speakers with a coaxial cable.
- 5 OPT. OUT/IN:** Connect the OPT. IN to an optical digital audio input source such as a DVD/CD player or PS3 and the OPT. OUT to an amplifier or active speakers with an optical cable.
- 6 L/R IN/OUT:** Connect the L/R IN to an analog stereo input source such as a CD player or media player and the L/R OUT to amplifier or active speakers with RCA jack cables.
- 7 XLR L/R OUT:** Connect to an amplifier with balanced XLR inputs or directly to professional balanced equipment with XLR cables.

### Note:

*HDMI Input Mode:* In this mode, whatever audio input is selected will be routed to the HDMI output as well as all other outputs.

*HDMI Bypass Mode:* In this mode HDMI video and audio will always be routed to the HDMI output no matter what input is selected, whilst all other outputs will output the audio from the selected input. This function allows the user to have two distinct audio pathways through the unit.

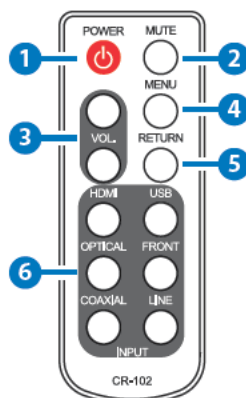
## 6.3 Top Panel



- 1 POWER:** Press this button to switch on the device or set to standby mode.
- 2 MUTE:** Press this button to mute or unmute the audio volume instantly.

## 6.4 Remote Control

- 1 POWER:** Press the button to turn On or to set the device to standby mode.
- 2 MUTE:** Press the button to mute or unmute the audio volume instantly.
- 3 VOL:** Press these buttons to turn up or down on the output audio volume.
- 4 MENU:** Press the button to enter into the menu selections then press the volume up/down buttons to select and press it again to confirm the selection.
- 5 RETURN:** Press the button to return or exit the menu selection.
- 6 INPUT:** Press these hot keys to switch the input sources instantly.

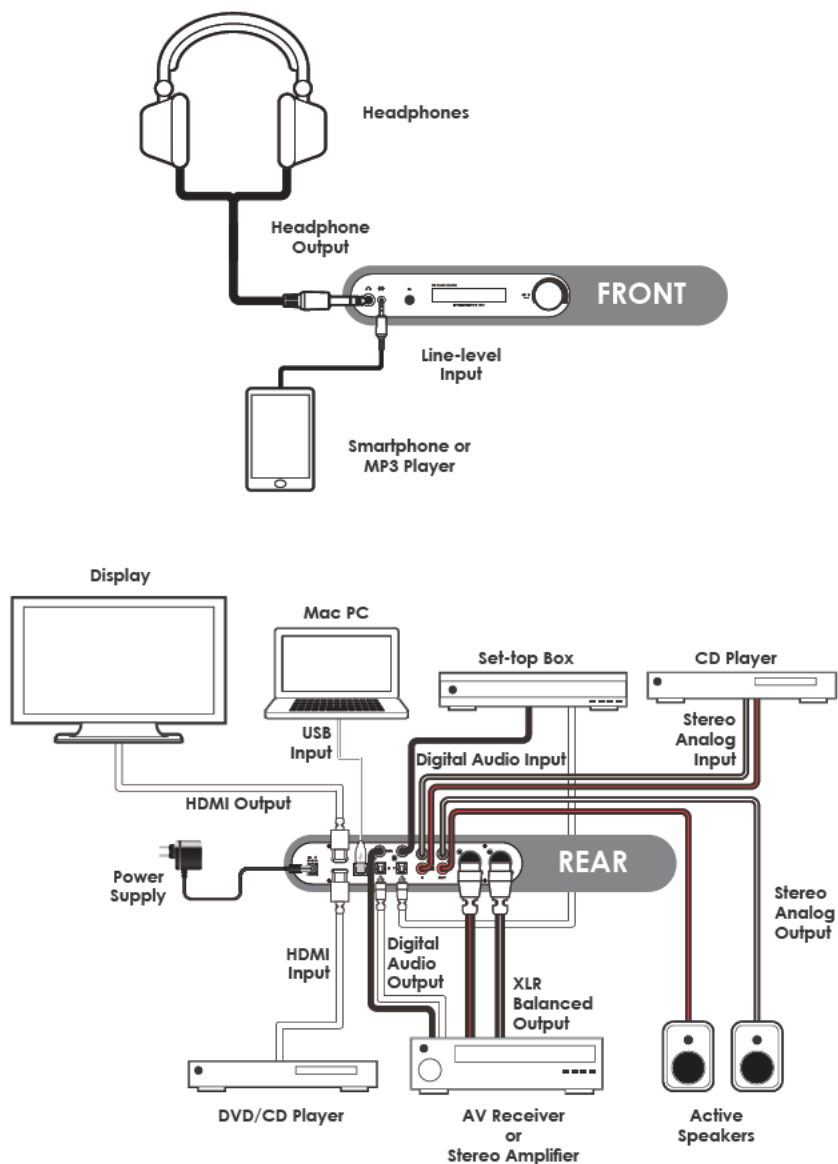




## 6.5 OLED Menu

1ST LAYER	FULL NAME	2ND LAYER
<b>Source In</b>	Source Selection	HDMI In
		USB In
		Optical In
		Coaxial In
		Line In (L/R In)
		Front In
		Return
<b>SRC Set</b>	Sampling Rate Conversion Setup	Bypass
		192 kHz
		176.4 kHz
		96 kHz
		88.2 kHz
		48 kHz
		44.1 kHz
Return		
<b>HDMI TX Set</b>	HDMI Output Setup	Bypass
		Input
		Return
<b>Display Set</b>	Display Time Out Setup	TimeOut 5s
		TimeOut 10s
		TimeOut 15s
		Return
<b>HP Impedance</b>	Headphone Impedance	16 Ω
		32 Ω
		64 Ω
		200 Ω
		300 Ω
		600 Ω
		Return
<b>Line Out Set</b>	Headphone/Line Out Setup	Fix Level
		Volume Level
		Return
<b>Reset to Default</b>		OK
		Return
<b>Return</b>		

## 7. CONNECTION DIAGRAM



## 8. SPECIFICATIONS

<b>Input Ports</b>	1×HDMI, 1×USB (Type B), 1×Coaxial, 1×Optical, 1×L/R (Analog Stereo 2RCA), 1×3.5mm Phone Jack (L/R)
<b>Output Ports</b>	1×HDMI, 1×Coaxial, 1×Optical, 1×L/R (Analog Stereo 2RCA), 1×XLR (Balanced Analog Stereo), 1×6.3mm Phone Jack (Headphone)
<b>Digital Audio I/O Support</b>	LPCM 2CH
<b>Stereo Audio I/O Level</b>	2 Vrms ±0.2
<b>XLR Blanced I/O Level</b>	4 Vrms ±0.2
<b>Headphone Impedance</b>	16 Ω ~ 600 Ω
<b>ESD Protection</b>	Human body model: ±8kV (air-gap discharge) ±6kV(contact discharge)
<b>Power Supply</b>	5 V/3A DC (US/EU standards, CE/FCC/ UL certified)
<b>Dimensions</b>	138mm (W)×223mm (D)×50mm (H)
<b>Weight</b>	680g
<b>Chassis Material</b>	Aluminum
<b>Silkscreen Color</b>	Black
<b>Power Consumption</b>	15 W