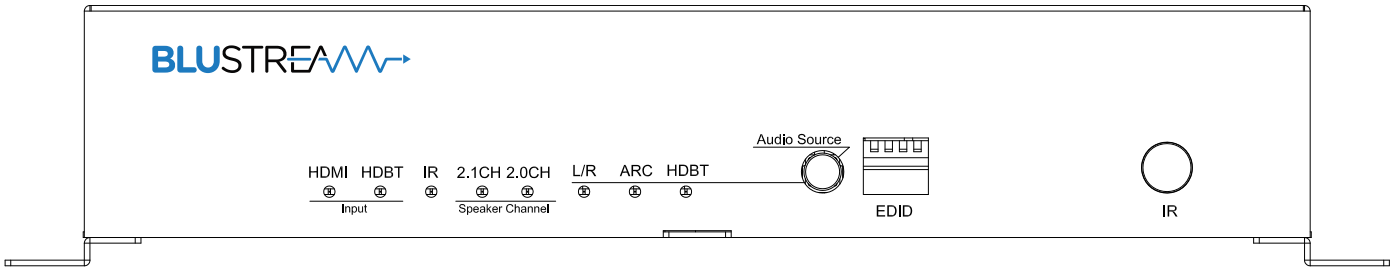

RX70AMP

User Manual

Thank you for purchasing this product.

For optimum performance and safety, please read these instructions carefully before connecting, operating or adjusting this product. Please keep this manual for future reference.

Surge protection device recommended

This product contains sensitive electrical components that may be damaged by electrical spikes, surges, electric shock, lightning strikes, etc. Use of surge protection systems is highly recommended in order to protect and extend the life of your equipment.

Safety And Performance Notice

The transmission distances of HDMI over UTP cables are measured using TE CONNECTIVITY 1427071-6

EIA/TIA-568-B termination (T568B) of cables is recommended for optimal performance.

To minimize interference of the unshielded twisted pairs in the CAT5e/6 cable do not run the HDBaseT / Cat5e/6/6a cabling with or in close parallel proximity to mains power cables.

Do not substitute or use any other power supply other than the enclosed unit, or a Bluestream approved replacement.

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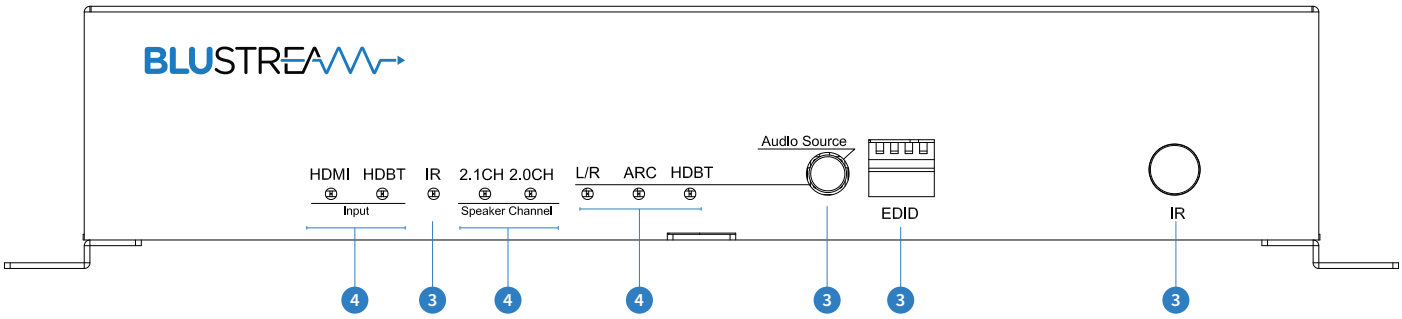
Introduction

The RX70AMP, with HDBaseT chipset inside is a combination of HDBaseT (HDBT) receiver and Class D digital audio amplifier. It also supports the Audio Return Channel (ARC), multiple control modes, bi-directional IR, RS232 and front panel control for useful audio-visual integration.

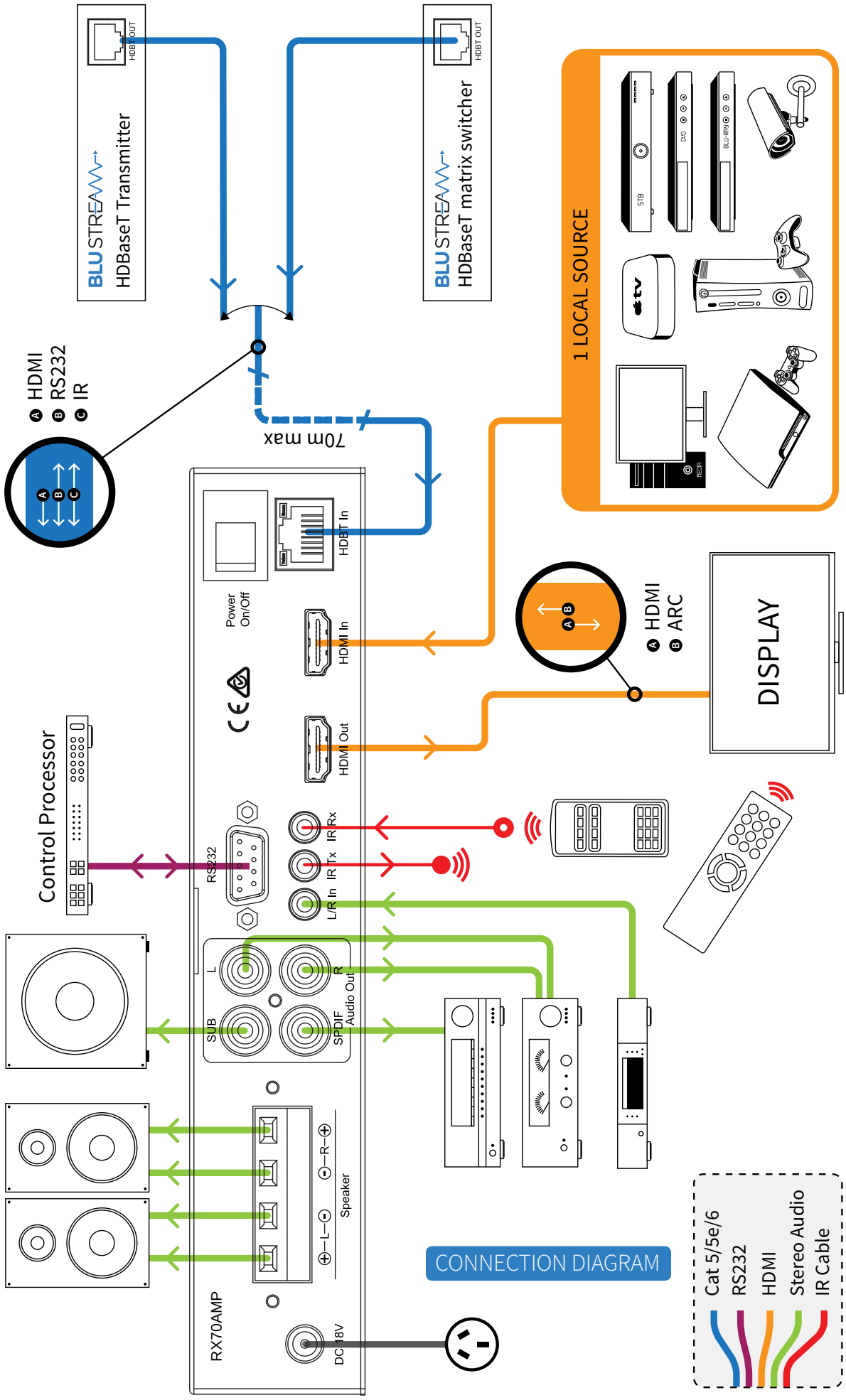
FEATURES:

- Multifunction HDBaseT receiver and Class D Amplifier in one compact box.
- 3:1 Audio Switcher/Receiver – Audio from centralized source via HDBaseT transmitter, Audio Return Channel (ARC) or local L/R source.
- 70m/230ft transmission distance between device and RX70AMP
- 2.1 stereo audio at 30w per channel - amplifier capable of driving 4, 6 & 8 Ohm speaker loads.
- High quality pre-amplifier adjustment for tone/volume/sub/mute control.
- Variable Analog line level outputs.
- Analog (RCA) Subwoofer output.
- S/PDIF out.
- Stereo speaker amplified outputs with left/right spring terminal connections.
- Bi-directional control of source and display via IR or RS232 from HDbaseT transmitter end
- EDID management and pre-sets via DIP switch.
- HDMI v1.4 features supported.
- HDCP compliant.
- Internal ESD protection.
- Compact size for flexible integration location.
- Mounting brackets supplied.

Front Panel



1. Input indicators – Indicates the current selected input source HDMI or HDBT.
2. IR indicator – Flashes when an IR signal is received from the remote control.
3. 2.0/2.1 Audio LED indicator – Indicates what audio mode is selected 2.0/2.1 (Selected by using the remote).
4. Audio Source LED indicator – Indicates the currently selected audio input.
5. Audio Source Select button – Press to manually toggle through L/R, ARC or HDBaseT audio sources (Lit when selected). Press it for 5 seconds (the 'Audio Source LED Indicator' flashing) to switch between local HDMI input and HDBT input.
6. DIP switch for EDID – enables the EDID to be user definable (See table below for settings)
7. IR window – Receives the IR signal from the remote control of RX-70AMP


HDBaseT Transmitter
HDBaseT matrix switcher
HDBT OUT
A HDMI
B RS232
C IR
70m max
1 LOCAL SOURCE
STB
DVD
BLU-RAY
PC/DVR
HDBT In
Power On/Off
HDMI In
HDMI Out
A HDMI
B ARC
DISPLAY
Control Processor
RS232
IR Rx
IR Tx
L/R In
L
R
SUB
SPDIF
Audio Out
Speaker
RX70AMP
DC 48V
CONNECTION DIAGRAM
Cat 5/5e/6
RS232
HDMI
Stereo Audio
IR Cable

Specifications

Video Input Connectors: 1x RJ-45 connector, 1x HDMI Type A, female

Video Output Connectors: 1x HDMI Type A, female

Audio Output Connectors: 1x RCA(S/PDIF), 1x RCA (subwoofer), 1x 4-pin spring terminal connector, 2x RCA(L/R)

DIP switch: 4-pin

RS-232 serial port: DB9 female connector

IR Input ports: 1x 3.5mm stereo jack

IR Output ports: 1x 3.5mm stereo jack

Rack-Mountable: 2x mounting bracket

Dimensions (W x D x H): 428mm x 145mm x 43mm, without feet

Shipping Weight: 2.7kg

Operating Temperature: 32°F to 104°F (0°C to 40°C)

Storage Temperature : -4°F to 140°F (-20°C to 60°C)

Power Supply: 18V/4A DC, screw connector

NOTE: *Specifications are subject to change without notice. Weight and dimensions are approximate.*

EDID Control

EDID (Extended Display Identification Data) is a data structure that is used between a display and a source. This data is used by the source to find out what audio and video resolutions are supported by the display then from this information the source will determine what the best audio and video resolutions need to be outputted.

While the objective of EDID is to make connecting a digital display to a source a simple plug and play procedure issues do arise when multiple displays or video matrix switching is introduced because of the increased number of variables.

By pre-determining the video resolution and audio format of the source and display device you can reduce the time need for EDID hand shaking thus making switching quicker and more reliable. Instructions on these setting can be found below.

Global EDID settings

DIP ON ▼/OFF▲ SWITCHING POSITIONS				
1	2	3	4	**EDID TYPE**
OFF	OFF	ON	OFF	1080p 3D/2.0
OFF	ON	OFF	OFF	1080p/2.0
OFF	ON	ON	OFF	1080i/2.0
ON	OFF	OFF	OFF	1080p/5.1
ON	OFF	ON	OFF	1080p/7.1
ON	ON	OFF	OFF	4K
OFF	OFF	OFF	OFF	Copy sink EDID

Package Contents:

- 1 x RX70AMP
- 1 x remote control
- 2 x mounting ears
- 1 x 18V/4A power supply
- 1 x IR emitter cable
- 1 x IR receiver cable

Maintenance

Clean this unit with a soft, dry cloth. Never use alcohol, paint thinner or benzene to clean this unit.

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