C4 Livestream Audio Processing Gadget
Preliminary User Guide

Thanks for purchasing the C4 Livestream Audio Processing Gadget. We are grateful! The user guide is in the queue and should be published in a few months. Meantime, here are some operating notes to help you enjoy your new gadget.

For safety and mounting information, please see the Failsafe Gadget user guide:

https://angryaudio.com/wp-content/uploads/2020/08/AA_FailsafeGadgetUserGuide_2008271.pdf

The C4 has an internal power supply, configured at the factory for either 115V or 230V. The captive power cable is fitted with the appropriate plug for the intended region. Do not attempt to modify the plug or the power supply. If your Gadget does not have the proper plug/voltage for your region, contact the factory to arrange a return/replacement.

C4 is equipped with both analog and digital audio inputs and outputs. Best performance will be achieved using the digital input and output (AES/EBU) on StudioHub+ RJ45 connectors. To select the DIGITAL IN as the audio source, flip DIPswitch B to the up position.

Analog inputs and outputs are presented on both XLR and StudioHub+ RJ45 connectors. A convenient ANALOG THRU is useful for daisy chaining the same source to multiple devices.

The Analog Output on the StudioHub+ RJ45 connector also provides ±15VDC to certain types of connected devices. It is possible for example, to feed power and processed audio over a single CAT5 cable from this output to an Angry Audio Headphone Gizmo.

The front panel controls are straightforward. The headphone amplifier with volume control has both 6.3mm and 3.5mm jacks. The jacks are mutually exclusive. **Exercise caution with headphone volume! It is possible to cause permanent hearing damage with excessive volume!**

The graphic below explains the processing functions.

Audio Processing mode
(Adjusts the activity of the multiband processing)
6:00 position – Bypass
9:00 position – Open (Dynamic) sounding processing
12:00 position – Medium density processing mode
3:00 position – Dense processing mode

Multifunction adjustment control

When loudness control mode is set to "off", this control becomes an output level control.
• When in level control mode, The Audio Chameleon C4 sets output LUFS level to -10LUFS. In this setting, processing texture is more "dense", comparable to broadcast radio. LUFS can be adjusted to desired target by reducing the output level without changing audio processing texture.
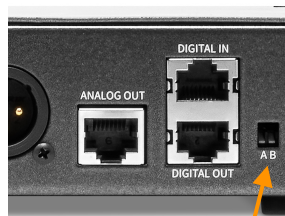
When loudness control is engaged, the multifunction control becomes the LUFS target.
• At 20 turns clockwise (maximum), LUFS target is -14 LUFS. At 20 turns Counter-clockwise, LUFS target is -24 LUFS. As LUFS target is reduced, so is audio density texture. The lower LUFS, the more "open" sounding the processing becomes. -24 LUFS is useful for more transparent "upstream" audio leveling applications

Activity LED's
Amber LED = "Gain Lock" indication.
    • Indicates processing is frozen (also called "gated").
Green LED = Actively processing Audio
Red LED = Input is being overdriven (Input clipping indicator)

The C4 Precision Loudness Controller can be engaged or bypassed via the rear panel DIPswitch. Place DIPswitch A in the up position to engage the Loudness Controller. Disengage by placing DIPswitch A in the down position.

C4 Audio Setup Switches

A: 1770 *Loudness control mode:*
        Up = Engaged
        Down= "Off"
B: *Audio Input:*

        Up = AES/EBU Input
        Down = Analog Input

Part Numbers:

North America	991036
Australia	991036A
Europe	991036E
United Kingdom	991036U

Specifications:

Analog Input	Balanced +4dBu Stereo XLRF connectors Balanced +4dBu Stereo RJ45F connector (StudioHub+ pinout)
Analog Through	Parallel to Analog Input (StudioHub+)
Analog Output	Balanced +4dBu Stereo XLRM connectors Balanced +4dBu Stereo RJ45F connector (StudioHub+ includes ±15VDC)
Digital Input	Transformer isolated, AES/EBU, RJ45F connector (StudioHub+) ASRC, 44.1kHz to 48kHz sampling rate
Digital Output	Transformer isolated, AES/EBU, 48kHz S/R, RJ45F connector (StudioHub+)
Power Input	115VAC 50/60Hz (North America Version)
Power Input	230VAC 50/60Hz (Australia, Europe, United Kingdom Versions)
Power Consumption	10VA
Operating Temperature	0° to 40° C (32° to 104° F)
Storage Temperature	-20° to 45° C (-4° to 113° F)
Relative Humidity	0% to 90% non-condensing
Cooling	Venting chassis (fanless)
Product Dimensions	8.5 x 6.25 x 1.7 inches (21.6 x 16 x 4.32 cm)
Product Weight	3.5 pounds (1.59 kg)
Shipping Dimensions	12 x 9 x 6 inches (30.5 x 22.9 x 15.3 cm)
Shipping Weight	5 pounds (2.27 kg)
Included in the box	C4 Processing Gadget, pocket trimpot adjustment tool

That's it. If you have any questions, give us a shout at:

answers@angryaudio.com

Use your new gadget in good health!

Your friends @ Angry Audio