Telos Alliance Omnia VOLT FM Version Broadcast Audio Processor Installation Guide

Contents

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THANK YOU FOR PURCHASING THE OMNIA VOLT

We have made this Omnia processor easy to set up and configure. This quick-start guide will take you through the basic steps to configure your new Omnia VOLT. You're just a few steps away from being able to deliver a cleaner, clearer, louder, and more consistent AM sound! Before we get started, let's make sure you have what you need.

THE FOLLOWING ITEMS ARE REQUIRED FOR INSTALLATION

- Omnia VOLT Audio Processor
- AC Power Cable
- RJ45 Studio Hub standard pinout AES Adaptors
- 4 rack screws
- Rack with an EIA rack space for mounting
- Philips screwdriver or screw gun
- Standard XLR connectors if setting up a line-level analog audio source
- Ethernet cable if setting up a Remote and/or Livewire connection

INITIAL SET UP & AUDIO CONNECTIONS

RACK MOUNTING

1. Install the VOLT in your equipment rack using the 4 supplied screws. If only two screws are used for installation, they MUST be installed in the bottom holes (A) of the rack ears. As a best practice, leave a blank space above and below the unit for proper ventilation and cooling.

AUDIO CONNECTIONS

1. Determine the inputs and outputs that are appropriate for your installation.

AUDIO INPUT: Both analog and digital input sources may be connected simultaneously, however, only the input source that has been selected in the Input menu will be active.

- For balanced line-level analog audio, connect XLR audio cables to the ANALOG LEFT IN and/or RIGHT IN jacks (B).
- For AES digital audio, connect the dual female XLR “Studio Hub” adaptor cable provided to the RJ-45 AES IN/SYNC jack (C).
- For an existing Axia or Livewire system, connect an Ethernet cable from the Livewire network to the Livewire jack (D).

AUDIO OUTPUT: All outputs are active simultaneously.

NOTE: The hardware is common to all VOLT units so please note that the rear panel BNC jacks are inactive when running the AM version.

- For balanced line-level analog, connect XLR audio cables to the ANALOG LEFT OUT and/or RIGHT OUT jacks (E).
- For AES/EBU digital audio, connect the male XLR “Studio Hub” adaptor cable provided to the RJ-45 AES OUT jack (F).
- For an existing Axia or Livewire system, the single Livewire Ethernet connection made in the input setup is all that is needed for audio I/O (D).

1. Connect the Omnia VOLT to AC Mains (G) using the AC power cable supplied. Make sure the power source is properly grounded. There is no power switch.
2. Once power is supplied, a red power indicator (H) next to the LCD (I) will light up. The LCD will remain dark for about 25 seconds, then will display “Omnia VOLT” as the startup sequence progresses. A few seconds later, the main menu will be displayed.

CONTINUE TO AUDIO CONFIGURATION

The initial set-up of your Omnia VOLT is complete and ready to be configured. Continue to the “Audio Configuration” instructions.

AUDIO CONFIGURATION

INPUT CONFIGURATION

The Omnia VOLT can be set up and customized for your station's sound directly from the front panel. Note that all of the front panel functions, and more, can also be accessed via password-protected login from networked computers, tablets or smartphones. For instructions on how to configure via networked devices, please refer to the Remote Control chapter in the Omnia VOLT manual.

1. Navigating input configuration on the front panel is simple and intuitive. Rotate the red jog wheel (K) to scroll through options displayed on the LCD screen (J), increase/decrease numeric options and more. Press the jog wheel (K) to make a navigation selection or to enter settings.
2. From the front LCD screen, rotate the red Jog wheel until Input/Output is highlighted. Press the jog wheel in to select.
3. Rotate the jog wheel until Input is highlighted. Press to select.
4. Rotate the jog wheel until Input Src is highlighted. Press to select.
5. Rotate the jog wheel to select the appropriate input source. Press to select.
6. Feed regular program material at your station's normal level (usually 0 VU on the console meters). Adjust VOLT's appropriate Level control so it's input LEDs bounce up to about -16 to -12 dB on peaks. Press the jog wheel to accept the setting.
7. Rotate the jog wheel until Exit is highlighted. Press to return to the Input/Output menu screen.

OUTPUT CONFIGURATION

1. Navigating output configuration on the front panel is simple and intuitive. Rotate the red jog wheel (J) to scroll through options displayed on the LCD screen(I), increase/decrease numeric options and more. Press the jog wheel (J) to make a navigation selection or to enter settings.
2. From the front LCD screen, rotate the red jog wheel until Input/Output is highlighted. Press the jog wheel in to select.
3. Rotate the jog wheel until Output is highlighted. Press to select.
4. Rotate the jog wheel to highlight the appropriate Level control for the output being used. Press to select.
5. Rotate the jog wheel to adjust the output level as appropriate for the next device. Press to accept the setting.
6. Exit and return to the Output menu screen.
7. Rotate the jog wheel to highlight FM Pre-emph. Rotate the jog wheel to highlight the pre-emphasis setting for your country or region. Only If BS-412 power limiting is required, turn it on from the Options menu. If you've selected a L/R audio input device in previous steps, select the appropriate De-emph for the following device.
    1. **Note:** If you're feeding an uncompressed digital STL, or want to use an audio output to feed the exciter, turn De-emph off for that output. This means VOLT's FM Pre-emph, selected at the start of this step, stays as part of the signal to the STL. VOLT should be the only device providing pre-emphasis or limiting. This means you should disable any additional pre-emphasis or limiting in the exciter.
8. Repeat Steps 2 to 4 above to set other outputs.
9. Exit and return to the Input/Output menu screen.
10. From the main menu, rotate the jog wheel to highlight Processing, press to select.
    1. Rotate the jog wheel to highlight Preset. Press to select. Feed normal program material and rotate to choose a preset for your initial setup.
        1. **Note:** Most presets have both wide-band (WB) and narrow-band (NB) variants. WB presets are optimized for normal 6-10kHz LPF settings while NB presets are optimized for where 4.5-5.5 kHz LPF settings must be used. Press to select and return to the Processing menu. You'll be able to change the preset and/or fine-tune its settings later.
    2. If you want to adjust a factory preset from the front panel, from Processing, rotate the jog wheel to highlight QuickTweak. Press to select.
    3. Rotate the jog wheel to highlight Clip Drive then press to select. Rotate to set the drive for the best compromise between loudness and distortion. You'll be able to refine this adjustment and others at any time using either the front panel interface or the browser based interface. Press the jog wheel to accept then exit and return to the Processing menu.
    4. **Note:** Using a very high Clip Drive setting temporarily to set your positive modulation (Asym Mod in Step 8 above) can make it easier to set properly.
    5. 10. If you have made changes to a preset, from the Processing menu, rotate the jog wheel to highlight Save Preset. Press to select. With Name highlighted, press and provide a preset name for the settings you just created. When finished, rotate to Save and press to return to the Processing menu. This can serve as a baseline while you do the next step.
    6. 10. Read the complete user manual! There are many layers to Omnia VOLT, and our easy to read manual will help teach you how to shape your sound with the best in Omnia processing for your station and market. Take the time to experiment, learn, and enjoy the results!

YOUR SETUP IS COMPLETE!

That's it! You are now ready to experience Omnia VOLT, for sound like never before.

INSTALLATION HELP

For more details about the Omnia VOLT, or to download the full manual please visit **http://www.TelosAlliance.com/Volt**.
If you have more questions, call the Telos Alliance 24/7 Support Team at +1 (216) 622-0247, or email us at **support@telosalliance.com**.
We're always happy to hear from you and offer help if you need it.

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QUICK START GUIDE: OMNIA VOLT (AM VERSION)

Documents / Resources

	Telos Alliance Omnia VOLT FM Version Broadcast Audio Processor [pdf] Installation Guide Omnia VOLT, FM Version Broadcast Audio Processor, Omnia VOLT FM Version Broadcast Audio Processor, Broadcast Audio Processor, Audio Processor, Processor

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