

RAVE ABU 5.1.2

- Release Date: November, 2023.

Feature Enhancements

A number of features have been added, or updated, to this version of software. This section provides a brief introduction to these features, and how to use them.

v5.1.2 Features

No New Features

No new features were added with this software release.

v5.1.1 Features

No New Features

No new features were added with this software release.

Bugs Addressed

The following bugs were addressed in this version of software:

- CR-4044 — Ultra 60 - ABUs don't work in 24 and 23.98 Hz video modes.
- GR-1818 — ABU not passing video out of the SDI1 OUT on the rear of the ABU.

Compatibility

As features and functionality are added to the 1RU Audio Breakout Unit (ABU) software, support must also be added to the products that interface with the ABU. Use the table to below to confirm what version of ABU software is compatible with the software version of your product.

Note: The compatibility list is updated at the time that the ABU software is released. Check the Upgrade Notes of your specific product for compatibility information of software released after the ABU software.

Note: The ABU and ABU-12G require different software. Refer to the tables below for the correct software versions for your hardware.

Table 1: ABU-12G Support

ABU-12G	Graphite	Ultra	Ultra 60
5.1.2 rave12g-5.1.2.446 raveLoader-5.0.0.19188	--	--	8.2
5.0.0 rave12g-5.0.0.430 raveLoader-5.0.0.19188	6.1.1	7.1.0	--

Table 2: ABU Support

ABU	Graphite	Ultra
4.5.1 rave-4.5.1.326 raveLoader-5.0.0.19188	6.1.1	7.1.0
4.5.1 rave-4.5.1.326 raveLoader-4.1.0.17736	6.0.1	6.6.3
4.5.0 rave-4.5.0.317 raveLoader-4.1.0.17736	5.5.0	5.5.0
4.0.0 rave-4.0.0.311 raveLoader-4.1.0.17736	5.1.0	5.0.5
3.0.0 rave-3.0.0.295 raveLoader-4.1.0.17736	3.0.0 – 5.0.3	4.0.0 – 5.0.3

ABU Upgrade

Your ABU will come pre-installed with the latest software. Check the compatibility table in this document to ensure that this software version is compatible with your equipment. If required, you can downgrade the ABU to a version of software that is compatible with your equipment.

To Upgrade the ABU

A USB connection from a computer to the ABU or ABU-12G is required to upgrade the software.

1. Install the `raveLoader-#.##.##.#####.exe` found in the upgrade package.

Tip: You may be prompted by **Windows Security** asking if you want to install the software. Click **Install** to proceed.

2. Connect a USB cable from the computer you are using to install the software to the USB-B port on the ABU. Only connect to a single ABU at a time.
3. Launch the **RAVE Loader** application.
The application will check for any ABU or ABU-12G hardware attached to the computer. The hardware must match the software you are loading onto it.
4. Click **Browse** and navigate to and select the upgrade file for your hardware.
 - **ABU** — select the `rave-#.##.##.###.bit` file.
 - **ABU-12G** — select the `rave12g-#.##.##.###.bit` file.
5. Click **Program**.

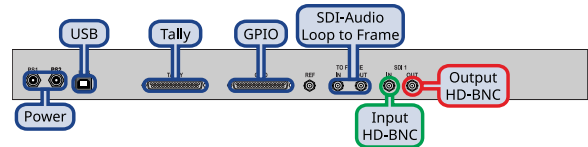


Important: Do not close the application or disconnect power to the 1RU Audio Breakout Unit or the computer while the upgrade is in progress.

Note: The upgrade will fail if you select an upgrade file that is not compatible with your hardware.

6. Click **Verify** to confirm that the upgrade has been successful. The upgrade will fail if the software is not compatible with the hardware.
7. Click **Exit**.

ABU Ports



Important: Ensure that Phantom Power is turned off for the Analog Input unless you are connecting a microphone that requires phantom power. Connecting the line out from an audio device to the analog input with phantom power on could damage the audio device and/or the 1RU Audio Breakout Unit. For added safety, a TRS phone connector should be used for line in audio sources.

Note: Some TRS jack plug adapters may introduce bleed between the left and right channels.

Notes:

- All digital audio must be reference locked (timed) to the same reference that the switcher is using. This includes both SDI embedded audio and AES digital audio inputs on the ABU.
- The SDI-Audio Loop HD-BNCs are for passing embedded audio to and from the switcher. Refer to the documentation that came with your switcher for which BNCs to connect to.
- The SDI1 In and Out HD-BNCs replace the HD-BNCs on the switcher that are used by the ABU.
- The REF input is not available at this time.

Tally Port Pinouts

Pin	Tally (female DB25)	Pin	Tally (female DB25)
1	Tally 1	14	Tally 14
2	Tally 2	15	Tally 15
3	Tally 3	16	Tally 16
4	Tally 4	17	Common
5	Tally 5	18	Common
6	Tally 6	19	Common
7	Tally 7	20	Common
8	Tally 8	21	Common
9	Tally 9	22	Common
10	Tally 10	23	Common
11	Tally 11	24	Common
12	Tally 12	25	Common
13	Tally 13		

GPI Port Pinouts

Pin	GPI I/O (female DB25)	Pin	GPI I/O (female DB25)
1	GPI I/O 1	14	GPI I/O 14
2	GPI I/O 2	15	GPI I/O 15
3	GPI I/O 3	16	GPI I/O 16
4	GPI I/O 4	17	GPI I/O 17
5	GPI I/O 5	18	GPI I/O 18
6	GPI I/O 6	19	GPI I/O 19
7	GPI I/O 7	20	GPI I/O 20
8	GPI I/O 8	21	GPI I/O 21
9	GPI I/O 9	22	GPI I/O 22
10	GPI I/O 10	23	GPI I/O 23
11	GPI I/O 11	24	GPI I/O 24
12	GPI I/O 12	25	Ground
13	GPI I/O 13		