



Merlet Audio QuadVU

User's Manual

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Document revisions

Date	Doc. revision	FW version	Change
25-05-2021	R0.1	NVT.	Initial document
02-06-2021	R1.0	NVT	First release

1 Setup

Intended use







The QuadVU is intended to be used in a studio environment to provide precise measurement of audio levels.

What is included

Please ensure that your quadVU box includes the following:

- QuadVU
- Power cable

Important Safety Instructions

	
	<p>Equipment from Merlet Audio marked with the lightning flash with arrowhead symbol intended to alert the user to the presence of uninsulated “dangerous voltage” within the product’s enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.</p> <p>Modification should be performed only by qualified personnel.</p>
	<p>Equipment from Merlet Audio marked with this symbol, alerts you to the presence of uninsulated dangerous voltage inside the enclosure.</p>
	<p>Equipment from Merlet Audio marked with this symbol alerts you to the presence of high voltage that may be sufficient to constitute a risk of shock and a life threatening situation.</p>
	<p>The exclamation point within an equilateral triangle, wherever it appears, alerts you to important operating and maintenance instructions. Please read the manual to be informed about the operating and maintenance instructions.</p>
	

Information for Users on Collection and Disposal of Old Equipment and used Batteries



These symbols on the products, packaging, and/or accompanying documents mean that used electrical and electronic products and batteries should not be mixed with general household waste.

For proper treatment, recovery and recycling of old products and used batteries, please take them to applicable collection points, in accordance with your national legislation and the Directives 2002/96/EC and 2006/66/EC.

By disposing of these products and batteries correctly, you will help to save valuable resources and prevent any potential negative effects on human health and the environment which could otherwise arise from inappropriate waste handling.

For more information about collection and recycling of old products and batteries, please contact your local municipality, your waste disposal service or the point of sale where you purchased the items.



Read these instructions.



Keep these instructions.



Heed all warnings.



Follow all instructions.



Modification should be performed only by qualified personnel.



Use only the supplied AC adaptor and the correct voltage. Be sure to use only the AC adaptor supplied with the unit. Also, make sure the line voltage at the installation matches the input voltage specified on the AC adaptor's body. Other AC adaptors may use a different polarity, or be designed for a different voltage, so their use could result in damage, malfunction, or electric shock.



Use only the supplied power cord. Use only the attached power cord. Also, the supplied power cord must not be used with any other device.



To reduce the risk of fire or electric shock, do not expose this appliance to rain and moisture. The apparatus shall not be exposed to dripping or splashing liquids.



Don't place objects filled with liquids near / on the Merlet Audio equipment to avoid exposure to liquids



Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.



Clean only with dry cloth.



Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.



Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding-type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.



Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.



Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.



Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.



Use only attachments/accessories specified by the manufacturer.



Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus.



Unplug this apparatus during lightning storms or when unused for long periods of time.



Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.



The apparatus shall be connected to a MAINS socket outlet with a protective earthing connection.



Where the MAINS plug or an appliance coupler is used as the disconnect device, the disconnect device shall remain readily operable

LEGAL DISCLAIMER

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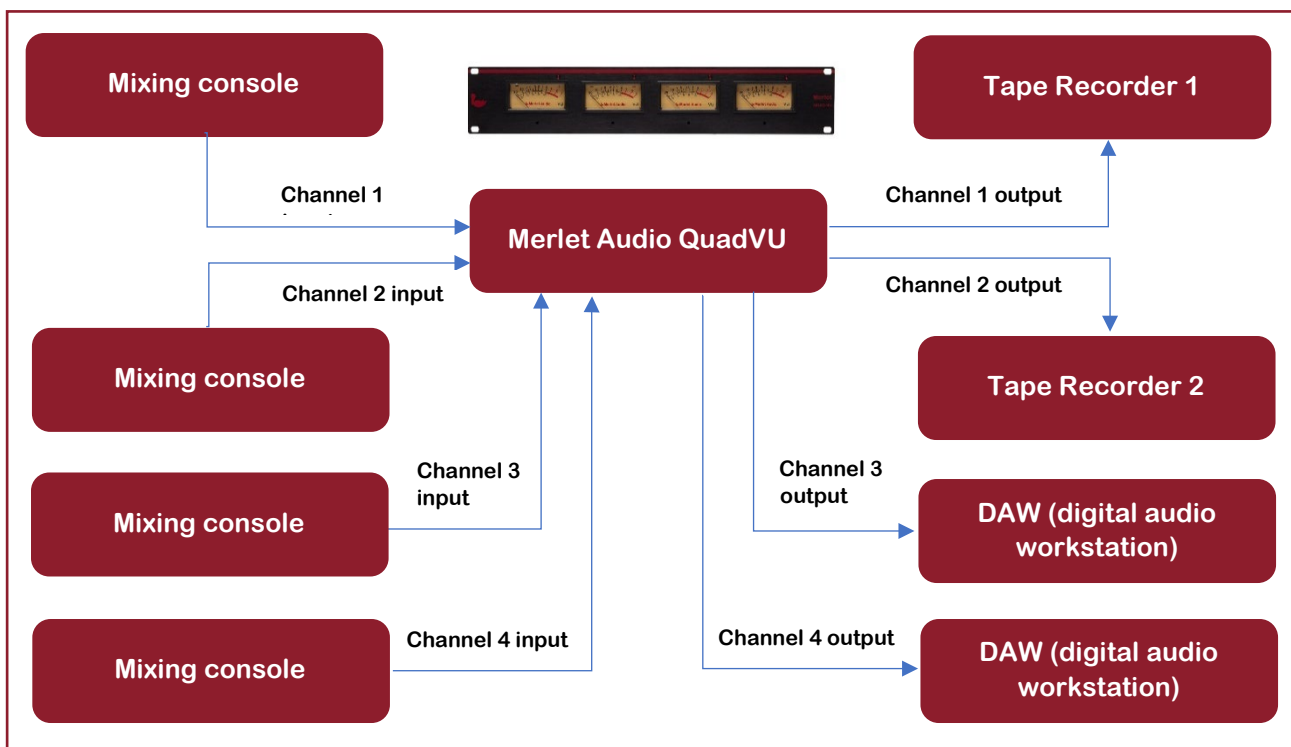
LIMITED WARRANTY

For the applicable warranty terms and conditions and additional information regarding ENGINEERS@WORK Group's Limited Warranty see: <https://www.synthcity.nl/us/service/general-terms-conditions/>

The Federal Communication Commission warns the user that changes or modifications to the unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

2 Installation

QuadVU makes it very easy to be inserted in your existing signal path. Simply connect the output to be displayed to the female XLR / Jack connector and route the male XLR connector of the same channel to its designation (built-in “Y-cable” functionality).



Connection example

3 Calibration

1. Turn power OFF
2. Adjust each vu meter with a screwdriver in the the adjustment hole, so that the needle points at the First line before -20dB (0%) as shown below:



3. Turn on the power of the QuadVU.
4. Set the switches on the back to Hi level.



5. Apply a 1KHz sine wave, +4dBu to the input of each meter.
6. Adjust the VU screw until the needle points exactly at 0.
7. Apply a 1KHz sine wave, -10dBv to the input of each meter.
8. Set the switch to Lo level.
9. Adjust the LEVEL screw until the needle points exactly at 0.
10. Set the switch to Hi level.
11. Apply a 1KHz sine wave, +16dBu to the input of each meter. (*)
12. Adjust the PEAK screw until the peak led comes on.

(*) it is recommended to have this done by a Merlet technician.
Applying continues high levels can damage the analog meters.

4 Panel description



Front view

For each channel:

- Illuminated analog VU meter
- Manual VU meter offset
- Overload (peak) indicators



Back view

- Power inlet
- Power switch

For each channel:

- input on XLR/Jack combo
- Pass Through on XLR
- pot to adjust overload (peak) indicator per channel
- per channel operating level switch (+4dBu and -10dBV)
- pot to adjust VU meter per channel
- pot to adjust operating level

Specifications

- **XLR Pass Through: balanced (1 ground, 2 +, 3 -) (Y-cable functionality)**
- **Two switchable operating levels (+4dBu and -10dBV)**
- **Adjustable overload (peak) indicators**
- **Balanced inputs (XLR/JACK combo)**
- **Input Impedance : > 14 kOhm (>5 kOhm unbalanced)**
- **2U space enclosure, less than 6.3" (160mm) deep**
- **Illuminated analog VU meters**
- **Internal World wide Power Supply (100 to 240VAC 50/60Hz)**