



IMG STAGELINE VU-800 Pro VU Meter 3 Color Level Display with 40 Processor Controlled LEDs Instruction Manual

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VU Meter

These instructions are intended for users with basic knowledge of audio technology. Please read these instructions carefully prior to operation and keep them for later reference. All operating elements and connections described can be found on the fold-out page 3.

Overview

1. Trimming controls for sensitivity adjustment of the left and the right channels
2. Selector switch for the display mode of the LEDs (3): BAR = bargraph display, DOT = dot display
3. LED level display; indicating the level for the left channel (upper row) and the right channel (lower row) in dB

4. Power switch
5. Low voltage jack for connecting the power supply unit provided
6. Stereo input AUDIO IN for connecting the output of the signal source whose level is to be indicated (e. g. mixer, effect unit)
7. Stereo feed-through output AUDIO OUT for connecting the input of a subsequent device (e. g. amplifier, second mixer, tape recorder)

Safety Notes

The product corresponds to all relevant directives of the EU and is therefore marked with .
The product corresponds to the relevant UK legislation and is therefore marked with UKCA.

WARNING The power supply unit uses dangerous mains voltage. Leave servicing to skilled personnel only. Inexpert handling may result in electric shock.

- The product is suitable for indoor use only. Protect it against dripping water, splash water and high air humidity. The admissible ambient temperature range is 0 – 40 °C.
- Do not place any vessels filled with liquid, e. g. drinking glasses, on the product.
- Do not use the product and immediately disconnect the power supply unit from the mains socket:

1. if there is visible damage to the VU meter or to the power supply unit.
2. if a defect might have occurred after a device was dropped or suffered a similar accident.
3. if malfunctions occur.

Any repairs must be carried out by specialists.

- For cleaning the product, only use a dry, soft cloth; never use water or chemicals.
- No guarantee claims for the product and no liability for any resulting personal damage or material damage will be accepted if the product is not correctly used or not expertly repaired.

If the product is to be put out of operation definitively, dispose of the product in accordance with local regulations.

Applications

This processor-controlled stereo VU meter is used as a control display for level adjustment of PA and DJ systems. The three-colour level display of 40 LEDs each per channel can be switched from bargraph to dot display and vice versa.

The VU meter has especially been designed for installation into a rack (482 mm / 19"). However, it can also be used as a table top device, if required. For rack installation, a height of 1 rack unit = 44.45 mm is required.

Basic Adjustment of the VU Meter

Prior to level measurement of a music system, the VU meter must be adjusted via a test signal in such a way that the LEDs "0 dB" will light up when the system has been set to its optimum level. For professional audio devices, the nominal voltage level (0 dB range) is 0.775 V or 1 V.

1. Feed a 1 kHz sine signal of 0.775 V or 1 V to the input jacks AUDIO IN (6). For this purpose, use a tone generator (oscillator) or a test CD with a corresponding 0 dB test signal. You can also use the output signal of

an audio device set to 0 dB.

2. Connect the VU meter to the power supply, switch it on and select the desired display mode [☞ chapter 5 "Before Operation", items 3) and 5)].
3. An optimum adjustment has been obtained when the level display (3) indicates 0 dB. In case of a higher or lower level value, the VU meter must be adjusted via the sensitivity controls ADJUST (1); the upper control for the left channel and the lower control for the right channel: Use a small screwdriver to turn the two trimming controls until the level 0 dB is indicated for each channel.

Before Operation

Prior to connecting any devices or to changing any existing connections, switch off the VU meter.

1. Connect the stereo input AUDIO IN (6) to a line level out-put of the device whose level is to be indicated, e. g. effect unit, mixer.
2. A subsequent device (e. g. amplifier, second mixer) can be connected to the stereo feed-through output AUDIO OUT (7). Connect the output AUDIO OUT to a line level input of the device.
3. Connect the power supply unit provided to the jack "12 V " (5) and then to a mains socket (230 V/ 50 Hz).
4. Prior to the first operation, a basic adjustment of the VU meter must be made (☞ chapter 4).
5. Switch on the VU meter with the POWER switch (4). Select the display mode of the LEDs (3) via the switch (2):
Position BAR = bargraph display Example: If a level of –12 dB is measured for a channel, all LEDs "–45 dB" to "–12 dB" will light up.
Position DOT = dot display
Example: If a level of –12 dB is measured for a channel, only the two LEDs "–12 dB" will light up.
6. Feed the audio signals to the VU meter and read the signal levels on the LED display. An optimum adjustment of the signal source has been obtained when the "0 dB" LEDs light up during music peaks. In case of overload (ranges exceed-ing "0 dB" light up), reduce the level of the signal source.
7. For switching off, press the POWER switch. If the VU meter is not used for a longer period, disconnect the power sup-ply unit from the mains socket as the power supply unit will consume some power even when the VU meter has been switched off.

Specifications

- **Version:** 3-colour LED display of 40 LEDs per channel
- **Display range:** steps of 3 dB from –45 dB to +12 dB
- **Input sensitivity:** approx 350 mV – 7 V
- **Power supply:** via PSU provided, connected to ~ 230 V/ 50 Hz
- **Ambient temperature:** 0 – 40 °C
- **Dimensions:** 482 × 45 × 50 mm (W × H × D), 1 rack unit
- **Weight:** 695 g


Subject to technical modification.

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Documents / Resources

	<p>IMG STAGELINE VU-800 Pro VU Meter 3 Color Level Display with 40 Processor Controlled LEDs [pdf] Instruction Manual</p> <p>1000804, VU-800 Pro VU Meter 3 Color Level Display with 40 Processor Controlled LEDs, VU-800 Pro, VU Meter 3 Color Level Display with 40 Processor Controlled LEDs</p>
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