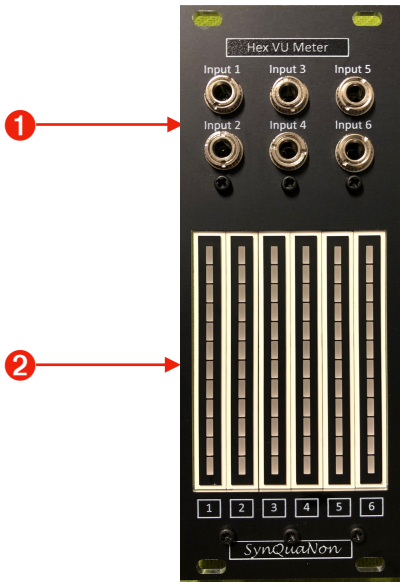
Hex VU Meter

Programmable VU Meter for Audio Signals

Introduction

Congratulations on your purchase of this SynQuaNon product! It is our belief that our products will enable you to find new and interesting ways to create custom sounds with your synthesizer and other SynQuaNon modules. Check out our full line at www.synquanon.com.

Module front panel overview



❶ Inputs — Audio inputs 1-6. Voltage levels can be customized - see programming instructions.

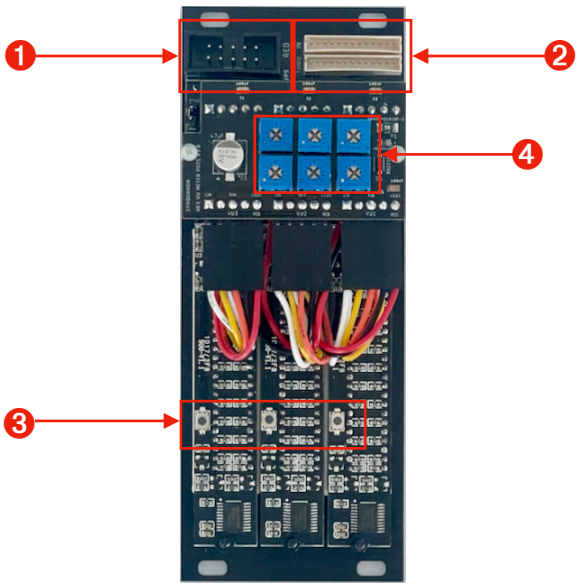
❷ LED Meter — VU Meters 1-6 with 12 segments (7 green, 2 orange, 3 red). LED characteristics can be programmed.

Overview

The Hex VU meter provides a compact visual indication of audio signal levels for six inputs. Gain controls on the rear of the module allow you to custom calibrate the readouts by adjusting the gain from zero to unity for each channel.

Ideal for guitar or bass single-string processing.

Module rear panel overview



❶ A100 Bus	Keyed power connection with reverse polarity protection. Red stripe is on the right.
❷ Audio Bus	SynQuaNon Audio Bus Input and Thru connections for patch-free interfacing with other SynQuaNon modules.
❸ Mode switch	Three mode switches (1 per pair of VU Meters) for programming.
❹ Attenuators	Trimpots to adjust maximum amplitude of input signals.

VU Meter Programming

Normal Mode

1. Press the Mode Switch button ❸ for 1 second (there will be a corresponding preview) to activate mode selection.
2. Press the button for 3 seconds to switch between **Real Mode** and **AGC Mode** (there will be a corresponding preview).
3. Press the button for 5 seconds to enter **Speed Setting Mode**.
4. Press the button for 10 seconds to reset the VU Meter to **Factory Default**.
5. Double-click on the button to adjust the **brightness of the light bar** - it will cycle through low, medium, and high.

Speed Setting Mode

In **Normal Mode** press the button for 5 seconds to enter, press the button for 5 seconds to exit.

1. Press the button for 1 second each to loop through the following functions:

   a. The light bar rise speed (7 optional speeds)
   b. The light bar fall speed (7 optional speeds)
   c. The peak hold time (7 optional times)
   d. The peak fall speed (7 optional speeds)
   e. Zoom in/out in Real Mode (7 optional)

Features

- SynQuaNon Audio Bus connectors on back for patch cable-free connection.
- Custom calibration via trimmers on back of module.
- VU meters can be preset for AGC, peak hold options, LED display options.
- Pairs well with 13-Pin Input Breakout, 13-Pin Output Breakout, 7-Channel Amplifier-Attenuator

Technical Specifications + Downloads

Width	10 HP
Depth	35 mm
Power	51 mA @ +12V
	0 mA @ -12V
	0 mA @ +5V

ModularGrid Hex VU Meter

Support

In case of difficulty:

1. Make sure power is available to the Eurorack and that it is turned ON.
2. Check the rear module power connection (turn OFF Eurorack power first)
3. Check patch cables for continuity or shorts.
4. Check level settings on front panel. Check gain select header on rear of module for proper gain range selection (turn OFF Eurorack power first).

For additional information please feel free to contact us at support@synquanon.com