

Logitek Ultra-VU Meters



The Ultra-VU display provides high resolution for precision metering applications; several viewing modes are available

For maximum resolution in audio level monitoring, choose an Ultra-VU meter from Logitek. Each Ultra-VU display is composed of two bargraphs, each with 63 tri-color LEDs. VU is indicated in green, with simultaneous peak shown in red. Yellow is used for the zero VU reference point as well as for a digital clip indication. The zero VU point is user adjustable, as is the clip indication sensitivity.

Several operating modes are available with an Ultra-VU display. The standard mode is VU on both bargraphs, typically used for monitoring individual channels. Pressing the MODE button on the display switches it to a phase display on the top bargraph and mono sum on the bottom. The phase display uses a red LED to show the location of the furthest left sound in the sound field and a green LED to show the location of the furthest right sound. This allows problems with phase, width/location of the stereo image, or off center mono to be easily detected. When MODE is pressed again, the display switches to a loudness filter; this allows better loudness matching between music and voice segments. Pressing MODE yet again expands the meter resolution to .2dB per LED around the reference point. The final MODE setting is for brightness of the display, allowing the user to set the brightness to match the lighting in the room.

Models are available in desktop and rackmount configurations, with analog inputs, digital inputs, or both. Analog input versions have bridging inputs that accept balanced or unbalanced signals; digital inputs accept serial data in either professional or consumer format via a transformer isolated input that automatically locks to the incoming sample rate.

Ultra-VU Meter Specifications

Bargraphs per display	two	Pass-through	2200 Ohm balanced (XLR)
Number of indicators:	62 bar type tricolor LEDs, 1 red clip indicator	Sample Rate	up to 96kHz
Normal Range:	-70 dB through 0 dB plus clip - digital -50 dB through +20 dB plus clip - analog	Dual Input:	
Fine Range:	.2 dB per segment centered around reference point	Digital	Same
Reference Point:	User selectable at -10, -12, -14, -16, -18, or -20 dB	Analog	Same except for 1/4" phone connectors
Peak Markers:	+8, +9, +10, +11, +12, +14, +16, +18 dB above reference	Power Requirements:	110/220 VAC, 50/60 Hz - switchable UV1-(all), UDT-(all) 10 Watts UV2-(all) 20 Watts
Ballistics:		Dimensions:	
VU Mode	300 mSec/20 dB attack & release	1RU enclosure	19" wide x 7" deep 1 3/4" high
Peak Mode	0 uSec attack, 2.8 Sec/24dB release	Desk top enclosure	8 1/4" wide x 9" deep x 2 1/4" high with front bale
Peak Hold	0 uSec attack, 2 Sec or 4 Sec hold	Available Models:	
Max Hold	0 uSec attack, pushbutton reset	UDT-A	1 Ultra-VU meter (dual bargraphs) in a desktop case- analog inputs
Image/Phase Display:	4 Sec hold on maximum image width	UDT-D	1 Ultra-VU meter (dual bargraphs) in a desktop case- digital inputs
Clip Indicator:	trigger on 1 Or 4 consecutive clipped samples, set from front panel	UDTB	1 Ultra-VU meter (dual bargraphs) in a desktop case- both analog and digital inputs
Frequency Response:		UV1-A	1 Ultra-VU meter (dual bargraphs) in 1RU enclosure- analog inputs
Normal	+/- .1 dB (20hz - 20,000hz)	UV1-D	1 Ultra-VU meter (dual bargraphs) in 1RU enclosure- digital inputs
Loudness Filter	58 dB SPL auditory curve -40 dB 20 Hz, 0 dB 1250 Hz, -50 dB 20K Hz	UV1-B	1 Ultra-VU meter (dual bargraphs) in 1RU enclosure- both analog and digital inputs
Brightness control:	eight brightness levels set from front panel	UV2-A	2 Ultra-VU meters (each with dual bargraphs) in 1RU enclosure- analog inputs
Analog Input:	electronically balanced	UV2-D	2 Ultra-VU meters (each with dual bargraphs) in 1RU enclosure- digital inputs
Sensitivity:	-10 to +20 dBu for full scale	UV2-B	2 Ultra-VU meters (each with dual bargraphs) in 1RU enclosure- both analog and digital inputs
Sensitivity Adjustment	screwdriver adjustment on rear panel		
Overload Level:	+24 dBu		
Impedance	40K Ohm balanced or 20K Ohm unbalanced		
Connector	3-pin XLR		
Digital Input:	transformer balanced		
Codes	AES/EBU, S/PDIF		
Sample Rate:	up to 96kHz		
Impedance & Connector	110 Ohm balanced (XLR) 75 Ohm unbalanced (w/ optional RCA Coax adapter) (75 ohm BNC available)		

Also available in 5.1 and 7.1 Surround models, vertical displays, desktop enclosure - see Surround Meters datasheet for details



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