

H25001(L) Voltage Amplifier

Innovation & Ingenuity, for World-Class Products

- ✓ **HV Amplification:** $\pm 5000\text{V}$ (10000Vp-p)
- ✓ **Powerful Output:** $\pm 10/6\text{mA}$, 50/30W (across full band)
- ✓ **Large Signal Bandwidth:** DC-5/2kHz



H25001 (L)

Huatek H25001(L) is an outstanding desktop high voltage amplifier. It is only 1U(4.45cm) high and one A4 paper size. The chassis is made of high strength aluminum, providing high portability and durability. It can be easily deployed in equipment as OEM module or used as desktop instrument.

H25001(L) not only has variable digital gain and offset adjustment, it also has a unique transient protection mode (Hiccup) with auto-recovery from a fault. It's excellent performance and form factor can be applied in various high voltage scenarios.

Features

Highly Compact and Small

- ✓ 1U(4.45cm) height, A4 paper size

Digital Gain

- ✓ 0-1000.0, 0.1 step

Ensured Rated Output Across Full Band with Effective Compensation

- ✓ Max $\pm 10\text{V}$ input
- ✓ Gain 0-1000.0 adjustable, 0.1 step

Build-in DC HV Source

- ✓ $\pm 5000\text{V}$, 1V step, digital adjustment
- ✓ Use as DC Source separately, or offset of AC output

Monitor

- ✓ Voltage Monitor, Current Monitor

Intelligent Protection

- ✓ Overload, Short Circuit
- ✓ Single Mode, Hiccup Mode (Auto-Recovery)
- ✓ One-key lock

Intelligent Cooling

- ✓ On Demand Air cooling
- ✓ Low Noise; ensuring component and circuit long term reliability

Control

- ✓ USB (TYPE C), easy for control and integration

LCD Display

- ✓ voltage, protection, gain

Typical Applications

- Piezoelectric and MEMs
- Nano technology and Microfluidics
- Electron and Magnetic field drives
- Transducer
- Electroluminescence
- Plasma excitation
- Material Science
- HV insulation cable test
- Power electronics
- Electrohydraulic Printing (EHD)
- Dielectric Elastomers
- Electrostatic research
- Electroluminescence

Specifications

Max. Output Voltage	±5KV(10KVp-p)	Voltage Monitor	1V/1000V
Max. Output Current	±10/±6mA, across full frequency range	Current Monitor	200mV/mA
Peak Output Power	50/30W	V/I Monitor Impedance	50Ω
Output Impedance	50Ω	V/I Monitor Output Connector	BNC
HV Output Connector	4mmHV Connector	THD	-
Large Signal Bandwidth(-3dB)	DC-5kHz/2KHz	Communication Interface	USB-C
Small Signal Bandwidth(-3dB)	DC-250kHz/100KHz	Power Supply	DC 24V/5A
Slew Rate	>111V/us / >44.4V/us	Operating Environment	0~45 °C/≤ 85% RH Non condensation /Altitude up to 2000 meters
Voltage Gain	0-1000.0,0.1step/1000x	Stability	Non-cumulative drift:<50ppm/h Temperature-drift: 100ppm/°C 23°C±3°C, preheating for 30min
DC Voltage Source	±5000V, 1V step/None	Dimensions (exclude protrusions)	44.45*203.2*316mm (H*W*D)
Response Time	<50μs	Weight	3.3Kg
Zero Drift	<±100mV		
Max. Input Voltage	±10V		
Input Impedance	10KΩ		
Input Connector	BNC		
Output Protection	Overload, Short Circuit		
Protection Mode	Singel, Hiccup (Auto Recovery)		

Configurations

Included in Standard Shipment

amplifier*1、 manual*1、 HV output Cable*1、 BNC-BNC cable*3、 AC-DC adaptor*1、 Type-C cable*1、 carry case*1

Optional Accessories

HV attenuation probe、 customized made HV output cable (available in various length)

