

# H20230 High Voltage Amplifier

Innovation & Ingenuity, for World-Class Products

- ✓ **HV Amplification:**  $\pm 200V$  (400Vp-p)
- ✓ **Powerful Output:**  $\pm 300mA$ , 60W (across full band)
- ✓ **Large Signal Bandwidth:** DC-500KHz



**H20230**

**Huatek H20230** is an outstanding desktop high voltage amplifier. 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.

**H20230** 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

- ✓ <2U(4.45cm) height

### Digital Gain

- ✓ 0-100.0, 0.1 step

### Ensured Rated Output Across Full Band with Effective Compensation

- ✓ Max  $\pm 10V$  input
- ✓ Gain 0-100.0 adjustable, 0.1 step

### Build-in DC HV Source

- ✓  $\pm 200V$ , 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

<b>Max. Output Voltage</b>	±200V(400Vp-p)	<b>Voltage Monitor</b>	1V/50V
<b>Max. Output Current</b>	±300mA, across full frequency range	<b>Current Monitor</b>	1V/50mA
<b>Peak Output Power</b>	60W	<b>V/I Monitor</b>	50Ω
<b>Output Impedance</b>	50Ω	<b>Output Impedance</b>	50Ω
<b>HV Output Connector</b>	SHV	<b>V/I Monitor</b>	BNC
<b>Large Signal Bandwidth(-3dB)</b>	DC-500KHz	<b>Output Connector</b>	BNC
<b>Small Signal Bandwidth(-3dB)</b>	DC-2.5MHZ	<b>THD</b>	-
<b>Slew Rate</b>	>445V/us	<b>Communication Interface</b>	USB-C
<b>Voltage Gain</b>	0-100.0, 0.1 step	<b>Power Supply</b>	DC 24V/5A
<b>DC Voltage Source</b>	±200V, 1V step	<b>Operating Environment</b>	0~45 °C/≤ 85% RH Non condensation /Altitude up to 2000 meters
<b>Response Time</b>	-	<b>Stability</b>	Non-cumulative drift:<50ppm/h Temperature-drift: 100ppm/°C 23°C±3°C, preheating for 30min
<b>Zero Drift</b>	<±100mV	<b>Dimensions (exclude protrusions)</b>	75*205*330mm (H*W*D)
<b>Max. Input Voltage</b>	±10V	<b>Weight</b>	3.5Kg
<b>Input Impedance</b>	10KΩ		
<b>Input Connector</b>	BNC		
<b>Output Protection</b>	Overload, Short Circuit		
<b>Protection Mode</b>	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)