

## H2200 Embedded high-voltage amplification module

- ✓ **HV amplification:**  $\pm 2000V$  (4000VVp-p)
- ✓ **Strong output capacity:**  $\pm 20mA$ ,  $40Wp$   
(Current unrestricted at all frequency ranges)
- ✓ **Large-signal bandwidth:** DC-10kHz

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**Huatek H2200** is a typical modular high-voltage signal amplifier. Compact in size, it is made of high-strength aluminum alloy material, combining portability with high durability, and can be easily integrated into equipment as a high-voltage module.

The **H2200** is specially optimized for integrated development. It is equipped with a hiccup protection mode to enhance the fault tolerance of test equipment, and also features a fault signal interface. In the event of a fault, the alert signal can be transmitted through this interface, allowing for intuitive judgment of the device's operating status.

### Features

**Small-sized:** ✓ 1U(4.45cm) height, Palm-Size



**Multiple monitoring:** ✓ Voltage Monitor, Current Monitor

**Output rated voltage at all frequency band:**

✓ Input compensation, accepting maximum  $\pm 5V$  input

**TTL Trigger**

✓ Convenient for programming and integration

**Intelligent protection:**

✓ Overload protection, short circuit protection

**Fault feedback interface:**

✓ Hiccup protection mode, Auto-Recovery; Single protection mode

✓ Built-in fault signal triggering

✓ Automatically issues fault signals

### Typical Application

- Piezoelectric / MEMS
- Material science
- Ultrasonic transducer
- Micro-nanotechnology and microfluidics
- High-voltage insulated cable
- Electroluminescence
- Electric field and magnetic field drive
- Power electronics
- Plasma excitation
- .....



## Specifications

<b>Maximum output voltage</b>	$\pm 2\text{kV}$
<b>Maximum current output</b>	$\pm 20\text{mA}$
<b>Peak power output</b>	40Wp
<b>Output impedance</b>	200 $\Omega$
<b>High-voltage output interface</b>	SHV
<b>Large-signal bandwidth(-3dB)</b>	DC-10KHz
<b>Small-signal bandwidth(-3dB)</b>	DC-50KHz
<b>Slew Rate</b>	$>89\text{V/us}$
<b>Gain</b>	Fixed-400x
<b>DC offset</b>	/
<b>Response time</b>	$<25\mu\text{s}$
<b>Null offset</b>	$<\pm 100\text{mV}$
<b>Maximum input voltage</b>	$\pm 5\text{V}$
<b>Input impedance</b>	10K $\Omega$
<b>Input interface</b>	MCX
<b>Communication interface</b>	/
<b>TTL Trigger</b>	MCX

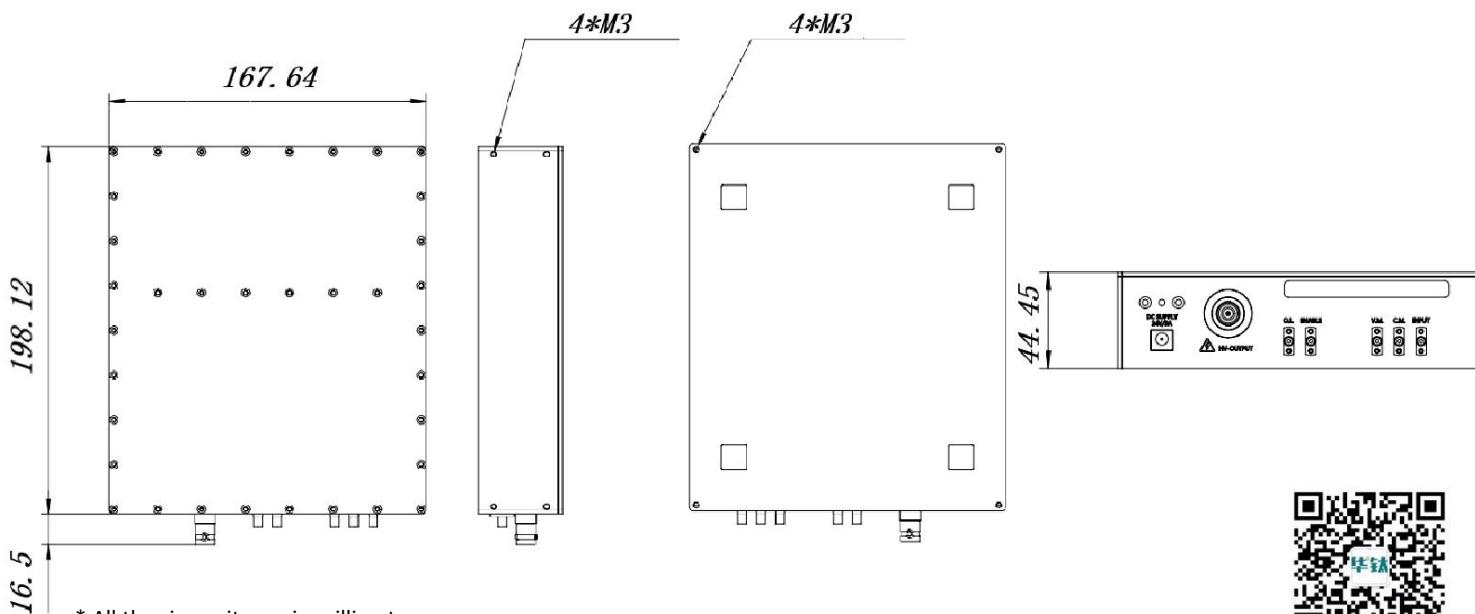
<b>Protection function</b>	Overload protection, Short circuit protection
<b>Protected mode</b>	Hiccup(Auto recovery)
<b>Voltage monitoring ratio</b>	1V/500V
<b>Current monitoring ratio</b>	100mV/1mA
<b>Voltage/Current monitoring impedance</b>	50 $\Omega$
<b>Voltage/Current monitoring interface</b>	MCX
<b>Power</b>	DC 24V/3A
<b>Work environment</b>	0~45°C / ≤85%RH / Max altitude: 2000m
<b>Stability</b>	Time drift : <50ppm/h Temperature drift: 100ppm/°C 23°C±3°C, preheat 30min
<b>Dimensions/Weight (Excluding protruding parts)</b>	44.5*200*170mm ≈1Kg

## Configuration List

Standard Equipment List
Amplifier main unit*1, User's manual*1, high-voltage output cable*1, MCX-BNC cable *5, power adapter*1

Optional Equipment List
High-voltage attenuation probe, custom high-voltage output cable

## Dimensions



\* All the size units are in millimeters.

\* For more detailed information, please refer to the user manual.