

Camera for Glass furnace

Model number: GLASS RB-TVP

The Camera for Glass Furnace is made of 310S stainless steel and features an air-water-cooled protective tube with a corrosion-resistant, high-temperature-resistant coating on the outer layer. It can be directly inserted into the furnace (up to 2000 °C) for continuous real-time monitoring. Equipped with a 3-million-pixel high-temperature camera and a sapphire high-temperature lens, the system can clearly monitor materials, flames, bubbles, and other critical conditions inside the furnace.



Product features

- Using a megapixel high-definition image sensor, the furnace image is clearer;
- Unique wind and water cooling protection, so that the probe can be used in 2000°C environment;
- Image signal digital TCP / IP network output, image without interference;
- The probe adopts the pneumatic exit device;
- The probe can automatically exit the furnace protection under the condition of over-temperature, gas break and power failure;
- The probe is made of special high temperature resistant stainless steel material, with high temperature resistance and corrosion resistance;
- Fixed installation on the kiln for full monitoring.

Product superiority

- Online observation of the flame burning in the furnace;
- Online observation of the entire melting process of the glass liquid in the furnace;
- High reliability structural design, the equipment is basically maintenance-free;
- High-performance HD image sensor allows clear images in the furnace;
- For different kilns, we can provide probes of different sizes to meet on-site use requirements.



System technical parameters	Requirements for cooling water and cooling gas
● Probe maximum temperature: $\leq 2000^{\circ}\text{C}$ (under wind and water cooling conditions) Image pixels: 3 million ● Field of view angle: $45^{\circ}\sim 90^{\circ}$ ● Observation method: direct view ● Data output method: TCP/IP network ● Effective usable length of probe: 250mm~600mm (optional)	■ gas: 1. Pressure: 0.4 to 0.7MPa (i. e. 4-7 kg) 2. Flow rate: 10 to 20 m³ / h (m³ / h is cubic meters / hour) 3. temperature:20°Cto35°C 4. Clean instrument gas must be used, otherwise unclean cooling gas air will pollute the lens and blur the lens. ■water: 1. Water removing removal (soft water) 2. Water inflow pressure: 3-6bar (namely 3-6 kg) 3. Temperature: $\leq 35^{\circ}\text{C}$ temperature 4. Water flow: not less than 15 L/min (L/min "liter / per minute")