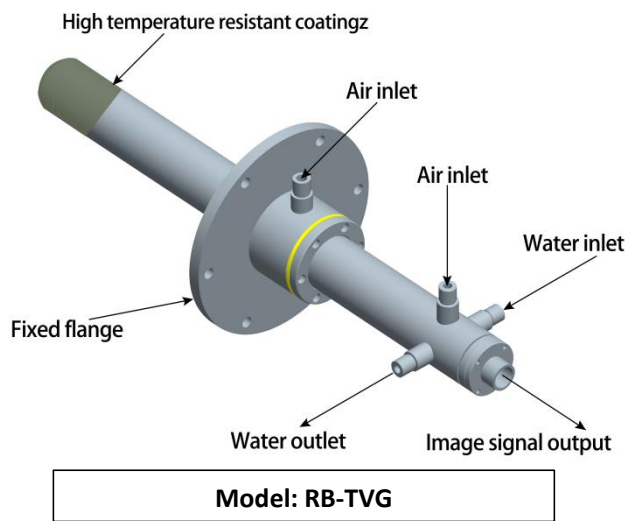


Camera for RH,VOD,VD furnace

Model number: RB-TVG

The RB-TVG camera for RH, VOD, and VD furnaces is a special closed-circuit television system designed for high-temperature environments. The system uses compressed air and circulating water for cooling. The high-temperature camera features a unique structure, with the camera probe extending into the water-cooled furnace cover. It provides high-definition observation of production processes, including electrode lifting, electrode submerged arc, molten steel slag layer, molten steel stirring, temperature measurement, and alloy input. The camera offers high resistance to splash, electromagnetic interference, a compact and sturdy design, clear and stable images, and is easy to install and maintain. It is widely used in RH, VD, LF furnaces, and other similar applications.



Product Features

- Wide field of view 85(other angles can be customised).
- HD network digital image output.
- High temperature and splash resistant suitable for high temperature and pressure.
- Clear and stable image can resist strong electromagnetic interference.
- Compact and durable protective structure.
- Pole-type camera probe can be quickly plugged and unplugged online.
- Water-cooled purging casing can be quickly inserted and removed online.

Technical Specification

Camera shot	
Lens length	787mm (other lengths available on request)
Viewing angle	Direct view 0°
Angular field of view (regular model)	HxVxD 65°, 56°, 85°
Lens Mount	CS
Focus and Iris	Manually adjustable



Conditions of use	
Heat-resistant	Up to 2000°C
Cooling system	Compressed air and water cooling
Installation	Fixed flange
Power supply	220VAC/50Hz

System Selection	
RB-TVG08	Direct observation (visible light)
RB-TVG08IR	Direct observation (infrared) Suitable for high dust or fume environments

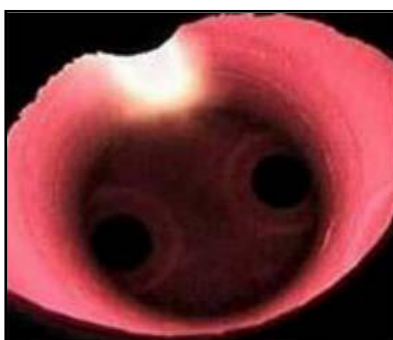
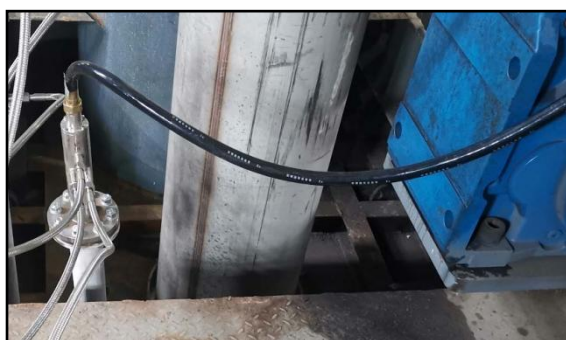
Compressed air requirements	
Air pressure	$\geq 0.5\text{MPa}$
Air flow rate	$\geq 30\text{m}^3/\text{h}$
Air temperature	$< 35^\circ\text{C}$
Air mass	Clean air free of dust, oil and water

Cooling water requirements	
Water inlet pressure	$\geq 0.3\text{MPa}$
Water flow rate	$\geq 1\text{m}^3/\text{h}$

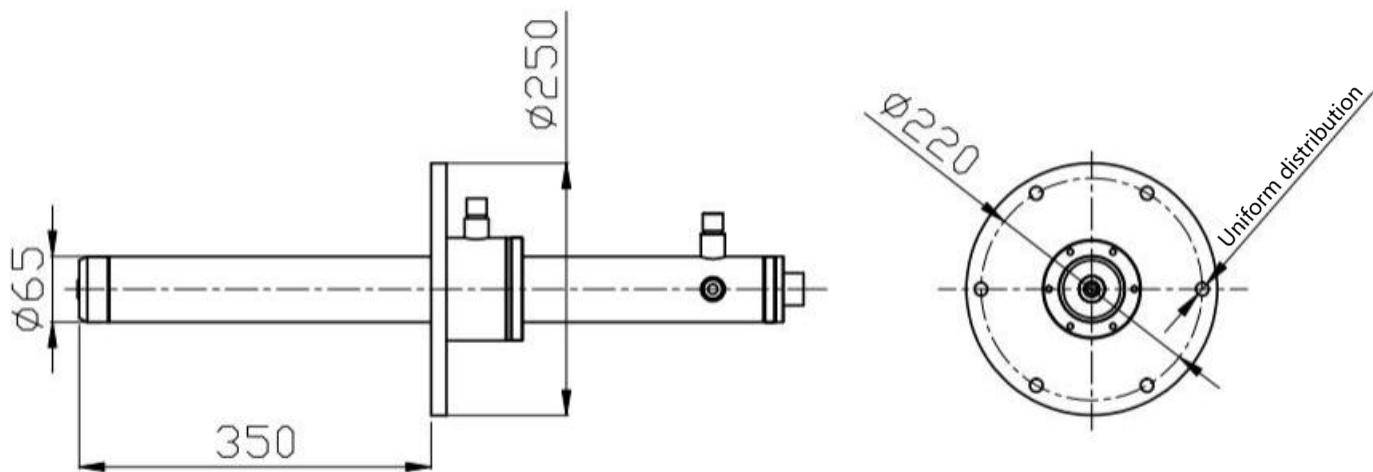
Camera Specifications	
1/2.7" Progressive Scan CMOS	
Model: RB-TVG08 Pixel 2 million	
Model: RB-TVG08IR Pixel 640X480	
30fps,can output real-time image	
Support wide dynamic range up to 120dB, suitable for backlight environment monitoring	
Support ONVIF(profile S/profile G), CGI, PSIA, ISAPI, GB/T28181 and EHOME protocol access.	
Support 10M/100M/1000M adaptive network interface	

Power Supply	$\text{DC}12\text{V}\pm 10\%$
Operating Temperature	$-30^\circ\text{C}\sim 60^\circ\text{C}$
Power Consumption	$< 30\text{W}$

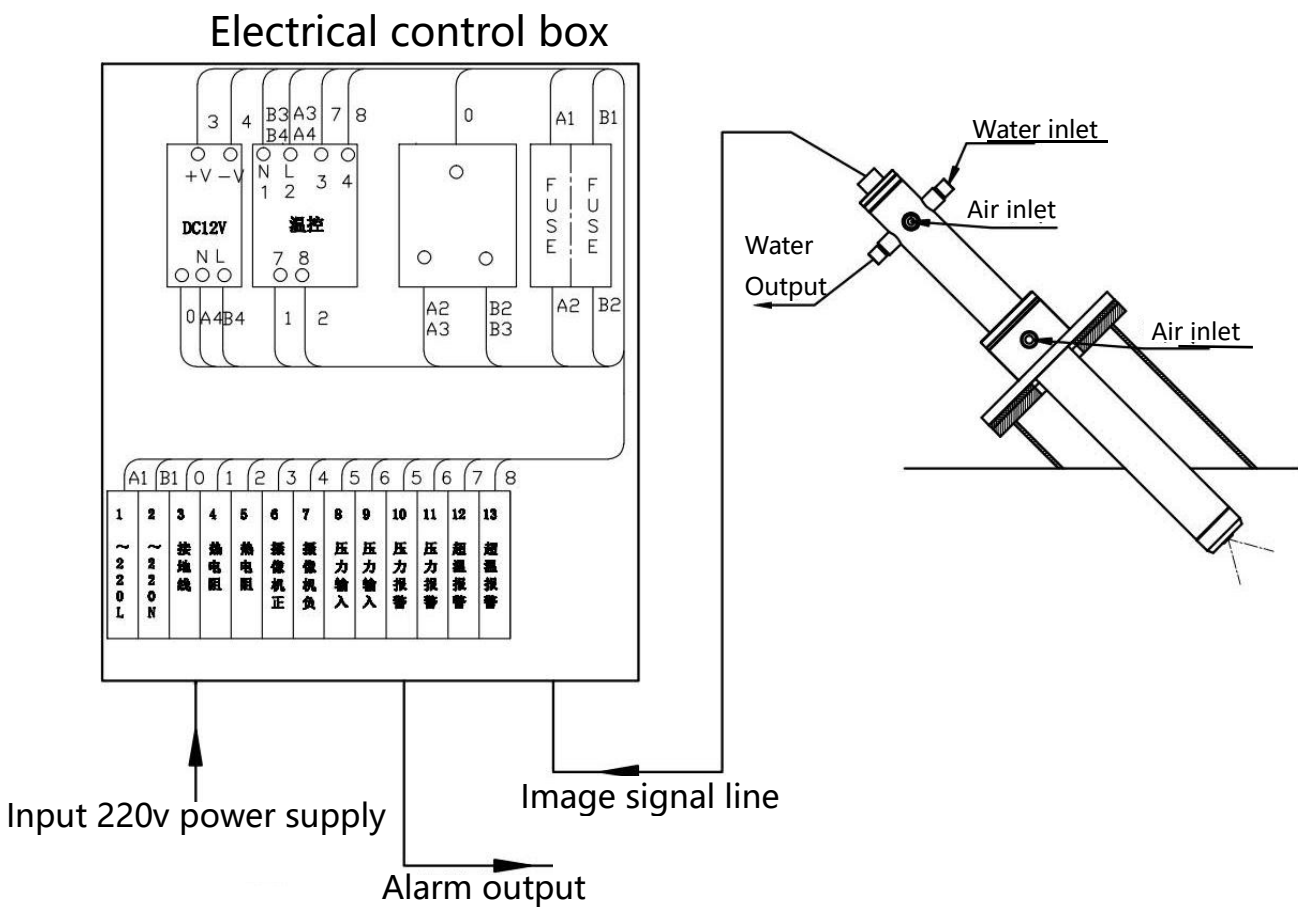
On-Site Image and Rendering



Equipment Dimension Drawing



Video camera system structure diagram



Applications

Metallurgy - RH furnace
Metallurgy - VD furnace
Metallurgy - LF furnace
Power - boilers (coal-fired or gas-fired boilers)
All kinds of electrode furnace
Other kinds of metallurgical furnaces