VSL-QF500

TAILOK INDUSTRIAL
THERMAL SOLUTIONS

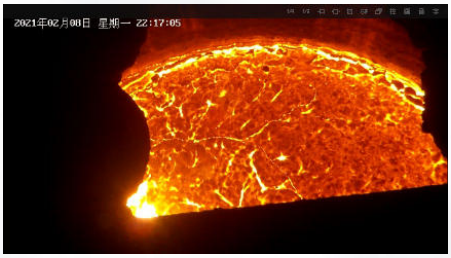
High Resolution · High Performance







Vacuum (boiling state)



Stationary state (vacuum complete)

Product Introduction

VSL-QF500 high temperature imaging system is a dedicated imaging system for steelmaking RH/LID high temperature furnace, which directly insert into the furnace, and continuously monitors the production status in the furnace in real time through the reserved holes, and monitor the melting status in the furnace from the control room, which has guiding significance for improving the quality of steel smelting. The probe can be used at an ambient temperature of 1800°C in the furnace under circulating water and gas cooling conditions, and the high-temperature probe provides a high-quality image with a clear view of the steel smelting conditions.

Product Feature

- The high-temperature probe adopts a high-definition high-performance COMS sensor, which can clearly observe the situation inside the furnace.
- With air and water cooling, the probe can be inserted directly into the furnace (below 1800°C) in continuous real-time
- Dedicating design of vortex air curtain at the front end of the lens, which increases the strength and purge area to effectively prevents the contact between the dust in the furnace and the lens.
- With High-performance solid-state sensors, providing the best image of the production status.
- The high-temperature lens is made of dedicated materials, with high optical design indicators, a wide field of view (diagonal of up to 100 degrees) and a large depth of field range. (The length of the borescope can be selected according to the site condition).
- With globe/ball valve to maintain a low pressure state. The valve can close the passage inside and outside the furnace when the camera is pulled out or accessed, avoiding vacuum leakage.

Application

- RH Refining furnace
- LID Refining furnace

Specification

Model	VSL-QF500
Camera	
Furnace Temperature	≦1800℃
Resolution	2MP (Optional for other resolution)
Noise Ratio	50db
FOV	25°~100C°
Enclosure Material	304SS/310SS
Lens window Material	Sapphire
Protection	IP65
Focus	Auto/Manual
Communication and Power	
Signal Communication	TCP/IP
Image Capture	Support (based on store device)
Deep learning image	Providing Coding for deep learning (Option)
Power	AC 110V/220V
Output	Relay Output (Option)
Cooling Requirement	
Input air pressure	0.1~0.7Mpa
Input tube	G1/2" (others TBA)
Input air temperature	≤35℃
Water flow rate	0.2m3/h
Water pressure	0.1 ~ 0.3Mpa
Water temperature	≤38℃

Warranty and Service

The warranty of the equipment is one year, if there is a quality problem within one year, the product will be replaced or repaired free of charge, if the non-quality problem is artificially destroyed, our company only charges the cost, and the warranty can be extended.