

HC SERIES

Key Features

- Tight structure and well - sealed probe.
- Relay alarm output for DCS.
- Clear live video in low light conditions using halogen lights.
- Halogen lights with adjustable light intensity option.
- Working in harsh and high ambient conditions.
- Water cooling and AIR purging facility.

Applications

- Steel Industry
- Cement Industry
- Glass Industry
- Power Industry
- Waste burning Industry
- Paper and pulp Industry
- Petrochemical and refining Industry
- Incinerators
- Research and development

FURNACE MONITORING VISUAL CAMERA SYSTEM WITH HALOGEN LIGHT



HC Series high temperature furnace monitoring visual camera system is designed specifically for use in combustion chambers within the steel industry such as cold rolling mills and galvanizing strip lines etc.

The unique feature of this model is halogen light are housed within a probe along with lens tube and control the light intensity as per requirement.

This system equipped with a water-cooling and compressed nitrogen or air cooling facility for camera. This setup creates an air curtain in front of the lens opening, effectively preventing lens erosion caused by high temperatures and furnace flames.

The camera system can be firmly mounted to the outer wall, enabling direct observation of material, surface conditions and combustion. This technology enhances safety, improves the working environment, reduces workload and enables centralized direction and automation in the manufacturing process.



HC series camera view

Technical Specifications

Technical	
Environment	up to 2000°C
Cooling system	Vortex AIR & Water cooling
Power	AC 220V/110V
Requirement of Compressed Air	
Pressure	7 ~ 10 kg/cm ²
Volume Flow	50m ³ /h
Temperature	<35°C
Quality	Dust, Oil& Moisture free clean air
Requirement of Cooling Water	
Inlet Pressure	2 ~ 5 kg/cm ²
Volume Flow	0.2-1m ³ /h
Quality	DM Water
High Resolution Camera Specification	
Image Sensor	1/2.7" progressive scan CMOS
Resolution	5 Megapixel
Pixels	2592 (H) × 1944 (V)
Minimum Illumination	0.005 Lux@F1.4
Lens	C/CS Mount

Shutter Speed	Auto/Manual, 1/3 s–1/100000 s
Streaming Capability	Three streams
WDR	120db
Gain Control (AGC)	Auto/Manual
Video Compression	H.265+/H.265/H.264+/H.264/MJPEG
Video Out	Ethernet RJ-45 (10/100Base-T)
Power	DC 12V (±25%), AC 24V (±25%), PoE (802.3af)
Power Consumption	<9.2W
Casing	Metal
Pinhole lens (Model : HC-100/P)	
Lens length	820 mm/ 1080 mm
Focal Length	Varifocal Lens: 3.6 mm- 8 mm
Field of view	Horizontal 65°, vertical 56°, Diagonal 85°
Focus and IRIS	Manual
Mount	CS
Varifocal lens (Model : HC-100/VFL)	
Focal Length	Varifocal Lens: 2.8 mm- 12 mm
Image Sensor	1/3"
Focus and IRIS	Manual
Mount	CS Mount

Our Models

Specifications	HC-100/P	HC-100/VFL
View	Visual	Visual
lens Type	Pin Hole lens	Varifocal lens
Furnace opening	100 mm Hole	Conical



HC-100/P



HC-100/VFL

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