

FMC SERIES

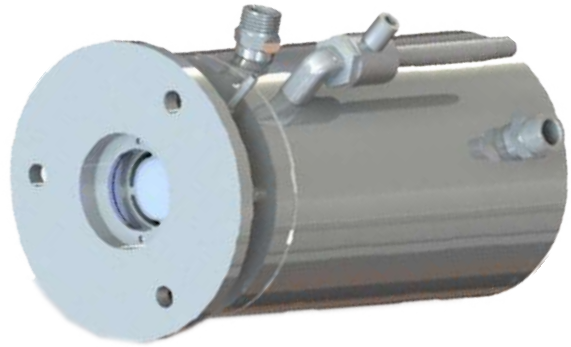
Key Features

- Wide angle View 110°.
 - High resolution imaging with wide angle view.
 - Relay alarm outputs for DCS.
 - Clear live video in low/high light conditions.
 - Working in harsh and high ambient conditions.
 - Furnace Flap.
 - Configurable ROI's: point, line, free shape features with Model: FMC-TE/750
 - Thermal Display, Hot and cold spot detection, Color pallet scaling, Trend charts features with Model: FMC-TE/750.
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Applications

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

FIXED MOUNT FURNACE MONITORING CAMERA SYSTEM



FMC Series high temperature furnace monitoring fixed mount camera system provides wide-angle view of burner flames, material alignment, and other process conditions in the furnace, incinerator, boiler, reheating furnace, combustion chamber.

The FMC furnace monitoring system series is designed to provide real-time monitoring of temperature and pressure data in high temperature environments such as furnaces and boilers.

FMC Series furnace monitoring camera system provides an effective and reliable solution for monitoring high temperature environment and ensuring the safe and efficient operation of furnaces and boilers in a range of industrial applications.



FMC series camera view

Specifications

Technical	
Environment	up to 1200°C
Cooling system	Vortex AIR & Water cooling
Power	AC 220V/110V
Hole Diameter	100mm
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
Thermal Camera Specification (Model : FMC-TE/750)	
Temperature Range	700°C to 1800°C/1000°C to 2500°C
Resolution	640 X 480 Pixels / 1280 x 1024 Pixels
Frame Rate	25 Hz / 50 Hz
Spectral Range	0.85μm to 1.1μm
Thermal Sensitivity	<1K (700°C [$<1292^{\circ}\text{F}$], <2k (1000°C)
Interface	Ethernet/ USB
Accuracy	±0.3% of measure value ±1°C
Power	12 to 24 V DC
Power Consumption	<4 Watt
Pinhole lens (Model : FMC-100/PHL)	
Lens length	820 mm/ 1080 mm
Focal Length	Varifocal Lens: 3.6mm- 8 mm
Angle of view	Straight view: 0°/ Elbow view: 60°
Field of view	Horizontal 65°, vertical 56°, Diagonal 85°
Focus and IRIS	Manual
Mount	CS Mount
Varifocal lens	
Focal Length	Varifocal Lens: 2.8 mm- 12 mm
Image Sensor	1/3"
Focus and IRIS	Manual
Mount	CS Mount

Our Models

Specifications	FMC-100/VFL	FMC-100/VFL(FF)	FMC-100/PHL	FMC-TE/750
Video View	Visual	Visual	Visual	Thermal
Mounting	Flange	Furnace Flap with stand	Pin hole lens	Pin hole lens
lens Type	Varifocal lens	Varifocal lens	Pin hole	Pin hole
Furnace opening	Conical	Conical	100mm Hole	100mm Hole

Mounting Drawings



FMC-100/VFL(FF)



FMC-100/VFL



FMC-100/PHL

Tempsens Instruments (I) Pvt. Ltd

B-188A, Road No.5, Mewar Industrial Area (M. I. A.),

Madri, Udaipur-313003 (Rajasthan) INDIA

Ph.:+91-9116554600

Email: info@tempsens.com

