

Accurate Sensors Technologies

CE Fix Mount Visual Camera

FMC Series

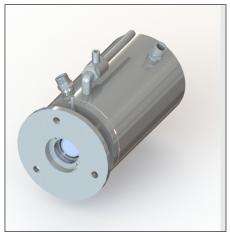
High Temperature Furnace monitoring fixed mount video camera system AST FMC-100/VFL, FMC-100/VFL(FF), FMC-300/PHL & FMC-300/PHL(A) provides wide angle view of burner flames, material alignment & other process conditions in furnace, Incinerator, boiler, reheating furnace or other combustion chamber. The AST **FMC** Series is mounted on wall of the furnace.

The system has pneumatic furnace flap shutter which is regulated by air for safety.

It uses special HD camera with high precision pin hole lens/auto iris varifocal lens which is mounted inside stainless steel housing. The housing is equiped with vortex air & water cooling system that enables the system to work in high temperature environment & also continuous supply of air keeps the lens clean.

The camera is inserted through a shutter which opens with the force of camera probe & shuts the furnace opening when the probe retracts.







Features

- Wide angle of view 85°.
- Relay alarm outputs for DCS.
- Clear live video in low/high light condition.
- · Working in harsh and high ambient conditions.
- Rodless cylinder reduce size and weight of system.
- Two Stage air filtration system for clear view and smooth working of system.
- 600mm Stroke useful in wall thickness of 400mm and 800mm Stroke in wall thickness of 600mm.





Technical Data		
Environment	Up to 1000°C	
Cooling system	Vortex air cooling/water cooling	
Transmission device	Pneumatic shutter	
Power supply	220VAC 50Hz	

Requirement of Compressed Air		
Pressure	2 ~ 5 Kg/cm ²	
Volume Flow	20 m³/h	
Temperature	<35°C	
Quality	Dust, Oil & Moisture free clean air	

Requirement of Cooling Water	
Inlet pressure	3 ~ 5 Kg/cm ²
Volume flow	0.2-1m³/h

High Temperature Video Camera	
Model	Description
FMC-100/VFL	High Temperature Fixed Mount Camera with Auto Iris Varifocal Lens
FMC-100/VFL(FF)	High Temperature Fixed Mount Camera with Auto Iris Varifocal Lens & Pneumatic Furnace Flap Shutter System
FMC-300/PHL	High Temperature Fixed Mount Camera with 300mm PinHole Lens Tube
FMC-300/PHL(A)	High Temperature Fixed Mount Camera with 300mm PinHole Lens Tube & Air Cooled Jacket

Bullet Camera (HCC	-690) Specification	Digital Box Car	mera (CV-344) Specification
CCD Sensor	Color SONY 1/3 " Super	CCD Sensor	2.5 Megapixel (1/2.8") sensor
	HAD CCD	Image	Manual adjustable
Image	Manual adjustable	Scanning System	4:2:2 color
Scanning System	2:1 Interlace	OSD Menu	Remote adjust through RS485 (Visca)
OSD Menu	Remote adjustable		or OSD menu joystick
Lens	5 times manual/electric	Lens	5 times manual/electric zoom lens
	zoomlens	Video Output	3G/HDSDI output
Video Output	Composite 1Vp-p75(Ω)	White Balance	Auto/manual adjustable
White Balance	Auto/manual adjustable	Color to black	Manual adjustable
Color to black	Manual adjustable	Gain Control	Auto/manual adjustable
Gain Control	Auto/manual adjustable	Power	DC12V (±10%)
Power	DC12V (±10%)	Power Consumption	Less than 120mA
Power Consumption	Less than 120mA	Electric shutter	Electric shutter EI(1/50~1/100🛮000sec)
Electric shutter	Electric shutter	Gamma Coefficient	γ = 0.45
	EI(1/50~1/100@000sec)	SNR	More than 48dB
Gamma Coefficient	γ = 0.45	Voice frequency	Adjustable
SNR	More than 48dB	TV Lines	Full-HD resolutions: 1920 x 1080p,
Voice frequency	Adjustable		1920 x 1080i, and 1280 x720p
TV Lines	Black and white 650 lines	Illumination	Frame rates: 60, 59.94, 50, 30, 29.97,
Illumination	0.005Lux @F2.0		25, 24, 23.98 fps
Working temperature	-10℃ ~ +70℃ (Humidity:	Working temperature	-10℃ ~ +70℃ (Humidity: 10%RH ~
	10%RH ~ 60%RH)		60%RH)
Storage temperature	-20° ~ +60° (Humidity:	Storage temperature	-20°C ~ +60°C (Humidity: 10%RH ~
	10%RH ~ 60%RH)		60%RH)
Dimension	20mm x Length 350mm	Dimension	56mmX56mmX58.67mm
Mount	C/CS	Mount	C/CS
Lens type	Compatible with Pinhole Lens	Lens type	Compatible with Pinhole Lens & Varifocal Lens

Varifocal lens

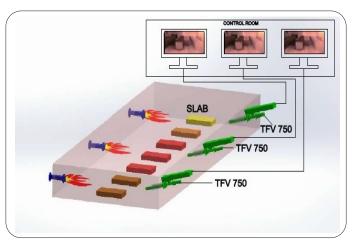
Part no.	VS-M2812-2	VS-M0660-2
Megapixal rating	3MP	3MP
Focal Length	2.8~12mm	6~60mm
Horizontal AOV	98°~25°	55°~5°
IRIS	DC Auto (4 pin)	DC Auto (4 pin)
F-Stop.	F1.4	F1.6
Focus Range	∞ - 0.3m	∞ - 0.3m
Image	1/3"	1/3"
Mount	CS	CS

Pin hole lens

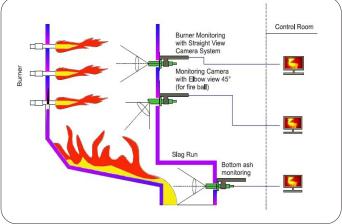
Part no.	V-ZPL-HITEMP-B-323
Focal Length	3.6mm - 18.0mm
Aperature	F1.8 - F9.1
FOV	80° ~ 19°
Image	1/3"
Mount	CS
Pin hole diameter	3.8mm
Housing	Stainless steel
Optical elements	sapphire front first element, quartz second element
Dimensions	323mm x ø 20mm
Max operating	Up to 10 min at 1000° C;
temperature	Continuous operation up to 150° C

Applications

Steel Industries



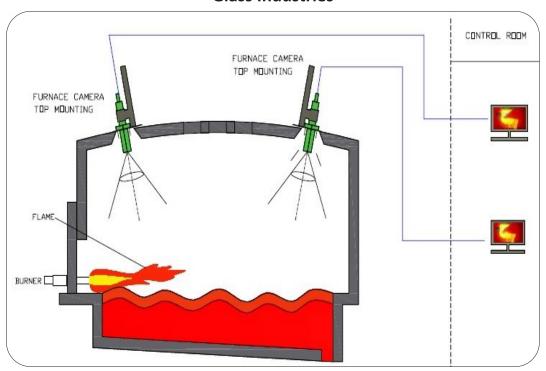
Power Industries



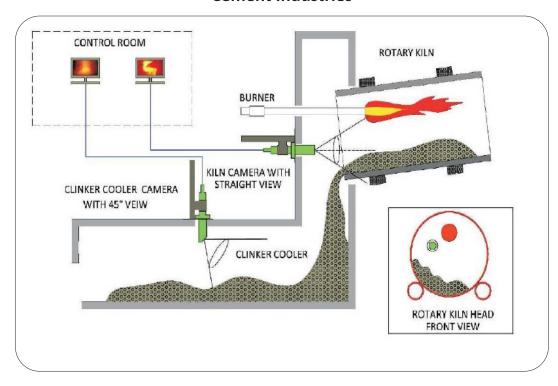
- Cement Industries Kiln & Cooler
- Steel Industries Reheating Furnace
- Power Industries Boilers
- Glass Industries Melting Furnace

- Incinerator
- Waste Heat Treatment Boiler
- Bio Mass Boiler

Glass Industries



Cement Industries



Accurate Sensors Technologies Pvt. Ltd. Misgav Industrial Park, Misgav 20174 Israel Phone:+972-4-9990025, Fax:+972-4-9990031

E-mail: info@accuratesensors.com

Accurate Sensing Technologies Pvt. Ltd. 188A, B-169 (Part), B-188 (A), Road No. - 5, M. I. A., Madri, Udaipur (Rajasthan) - 313003

Phone: +91-294-3507736, Fax: +91-294-3507731

Email: sales@accuratesensors.com

