

# ICI Flare Monitor

## Fix Mounted Infrared Flare Monitoring System

Detector Type:	Uncooled Microbolometer
Frame Rate:	30Hz
Wavelength:	7-14 $\mu\text{m}$
NETD:	<65mK (LrangeF/1,60Hz)
Video Output:	NTSC/PAL
Weight:	1 lb
Dynamic Range:	L range: 150°C (Typ.F/1) H range: 540°C (Typ.F/1)
Digital Output:	ITU-R.BT656 video data or RAW data
Serial Interface:	RS-232C
Input Voltage:	5 to 15 VDC
Power Consumption:	<5W (25°C)

### Functions

Contrast:	Auto or Manual
Brightness:	Auto or Manual
Polarity:	White-hot or Black Cold
Digital zoom:	x2 or x4
FPN Auto or Manual	
Dynamic Range Select(UH/Auto)	
Video Format Select	
Configuration Save	
Control:	RS-232C

### ICI Flare Monitor Description

This camera provides real-time continuous monitoring infrared imaging, analysis, and alarming functions. This camera saves time in the field allowing the operators to evaluate remotely from a control booth or area.

The ICI Flare Monitor is second to none in flare and flare pilot system monitoring. Standard pilot monitoring systems use thermopile type sensors with 256 or less elements. The ICI Flare monitor utilizes a 200mm(2.1° FOV with 76,800 pixels). Most of these monitoring systems give you only a 4-20 milliamp output, but the ICI flare monitoring system gives you an image so you can identify valves left open, back burning in the flare barrel and molecular seal. 90% of our installations have helped identify burning hydrocarbon gas where none was thought to exist.

Most of these flare pilot monitoring systems are purchased due to EPA and local regulatory requirements, but the real cost saving are due to burning product when none is thought to be burning.



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### Specifications:

Focal Plane Array: Uncooled  
320 x 240  
Contrast/Brightness: Automatic  
Detection Range for Human Activity:  
Up to 1500' (475m)  
Optics: Minimum Focus Distance:  
~25' (8m)  
Focus Method: Automatic  
Focal Length: 8mm, 14mm, & 200mm

### Video:

Output Format: NTSC or PAL  
Compatible  
IR Polarity: White Hot - Black Cold

