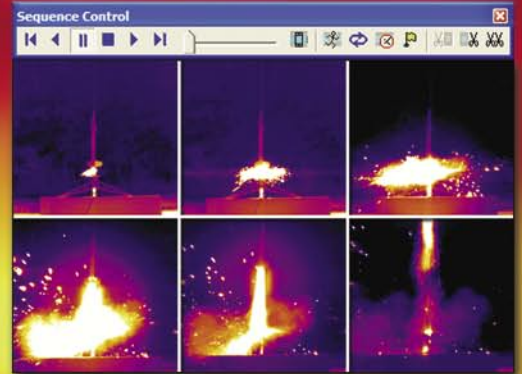


MIRIC TB2-30

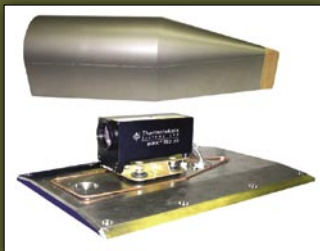
Miniature Infrared
Radiometric Ruggedised Imaging Camera



ThermoGRAM®
Real Time IR Image
Processing System

Aerospace Qualified IR

MIRIC Infrared Camera takes off aboard ballistic missile during Aegis BMD test
November 2005



MIRIC Camera Rocket Pod

Thermoteknix MIRIC is the unique miniature, very high performance, rugged infrared camera calibrated for temperature measurement in the harshest of environments.

The MIRIC range includes the smallest radiometric cameras which are shock, dust, water resistant and tested for use in vacuum and zero gravity.

IP 68 NEMA 6P

Specification

Image Size	164 x 128
Dynamic Range	14 bit
Frame Rate	30 Hz
Size	12.7 x 4.3 x 6.1cm (5 x 1.7 x 2.4")
Weight	300 gm
Shutter	Instrumented, motorised
Shutter control	User controlled via serial commands
Window	Germanium, anti-reflective coating to exterior surface
Lens	f 1.6, 15° x 11°
Temp measurement range	-20 to 500°C
Radiometric Accuracy	± 5°C or 2% whichever is greater
Focus	Internally fixed to pre-set distance
Sealing	Hermetically sealed using internal Viton® "O" rings
Environmental Protection	IP 68 NEMA 6P
Back fill	Purged & filled with dry Argon gas to maintain 1 Atm pressure for 5 years

MIRIC Interfaces

Control	RS232
Output	LVDS Low Voltage Differential Serial (16 bit samples)
Power	5V, 2.3 Watt (peak)

Vibration Specification

Frequency (Hz)	Acceleration density (g ² /Hz)	Frequency (Hz)	Acceleration density (g ² /Hz)
20	0.01	200	0.04
35	0.2	600	0.04
50	0.2	2000	0.0036

Shock Resistance - 50g peak 11ms duration ½ -sine profile

Filter - Filter mount provided on front face of unit. External filter holder and filters available.

Optional Accessories

Thermoteknix manufacture and supply a wide range of Digital Image Processing hardware and software solutions for Real Time data logging, imaging, capture and analysis for Scientific, Research and Development and Process applications.