



SPACE-IR Camera

High-performance 640 by 480 infrared (IR) camera for use in Space environments.

This Space infrared (IR) camera has successfully flown on three shuttle missions (STS-128, STS-131, and STS-135). Tracking of the International Space Station began at 43 km, immediately following camera initialization. Longer ranges can be achieved with use of different lenses. Flight video is available on request.

This camera can be used for calculating range and bearing for a chase vehicle approaching a target. It can also be used for ranging information between satellites. The camera can also provide thermal analysis of space objects.

Neptec can provide a processor card with the camera and is developing the software needed to calculate range and bearing in real-time.

Features

- **Resolution:** 640x480
- **Bit Depth:** 14bits per pixel
- **Infrared Band:** 8-14um
- **Operational Temperature:** -10°C to +50°C
- **Storage Temperature:** -20°C to +65°C
- **Power (max):** 2W
- **Power (nominal):** 0.7W
- **Dimensions:** 105x118x93mm
- **Optics:** F/1, 50mm FL (athermalised)
- **Communication Interface:** USB 2.0

Customizable Software and Electronics

- Windows™ apps
- DLL
- Labview support
- Uses common AIR software



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