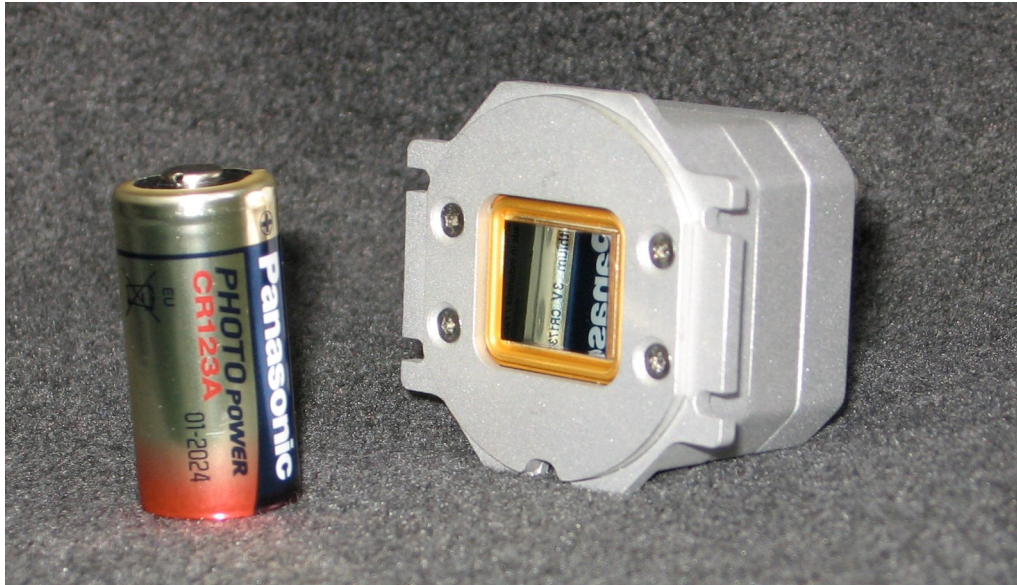


TAPIR 640

Towcester Research

Shutterless VGA LWIR camera engine



The Towcester Research TAPIR 640 camera engine provides a versatile compact low-cost and extremely rugged LWIR camera solution suitable for integration into a variety of platforms.

The compact lightweight shutterless design, rugged machined Aluminium chassis, high shock resistance and video output options make the unit particularly suitable for handheld security and TWS applications. Use of the latest ULIS Gen2 detector technology ensures maximum performance and exportability.

Standard specification includes analogue NTSC/PAL and digital BT.656 colour video with selectable colour palettes suitable for driving analogue or digital displays. Selectable reticules are available with digital zoom operating without loss of boresight. A battery indicator is also provided with adjustable voltage thresholds.

A standard control interface is provided which links external switch inputs with controls and on-screen graphic prompts. Unit configuration can be adjusted in-system by means of the built-in setup screen menu and external switch inputs. Configuration data is stored in non-volatile memory.

Features

- shutterless operation
- compact and lightweight
- analogue video NTSC/PAL
- BT.656 digital video
- Auto Gain and Offset
- OSD Text Generator
- selectable B&W or false colour palettes
- smooth digital zoom
- selectable reticules
- 5 switch inputs
- RS485 serial control interface
- menu graphics
- compatible with TAPIR 384

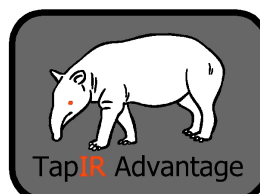
Specifications

detector	640x480, 17 micron pitch, ASI
frame rate	25/30 Hz
sensitivity	40 mK @ 20 °C
startup time	<5 s typical
operating temperature	-40 °C to +71 °C
analogue video	PAL/NTSC
digital video	BT.656-compliant 1.8V logic or 4:4:4 OLED-specific
power supply	3.5 V to 16 V < 1.5 W
mass	60g
space envelope	35mm x 35mm x 31 mm

Options

- OLED display
- digital compass

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