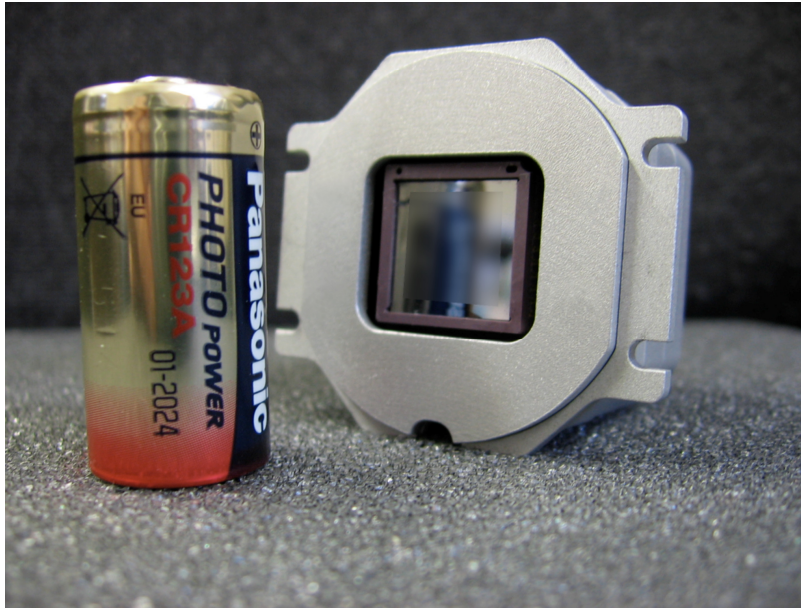


TAPIR 384

Towcester Research

Shutterless QVGA LWIR camera engine



The Towcester Research TAPIR camera engine provides a versatile compact low-cost and extremely rugged LWIR camera solution suitable for integration into a variety of platforms. The engine shares the same mechanical interface as the TAPIR 640 allowing easy system reconfiguration.

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

Standard specification includes analogue NTSC/PAL and digital BT.656 digital colour video suitable for driving analogue or digital displays with selectable colour palettes. The optional reticule operates in conjunction with digital smooth zoom 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 or the serial interface. 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
- ☐ custom reticule
- ☐ 5 switch inputs
- ☐ RS485 serial control interface
- ☐ menu graphics
- ☐ compatible with TAPIR 640

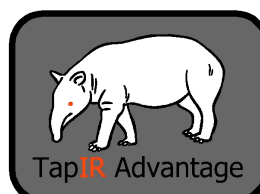
Options

- ☐ OLED display

tapir384_2_18

Specifications

detector	384x288, 17 micron pitch, ASi
frame rate	25/30 Hz (8.3Hz/9Hz on request)
sensitivity	60 mK @ 20 °C
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 W
mass	60g
space envelope	35mm x 35mm x 26 mm



Towcester Research Limited
183a Watling Street West
Towcester
Northamptonshire NN12 6BX
United Kingdom
inbox@towcester-research.co.uk
Registered in England no. 8664341