

SPIR 640-LR

Long Range Thermal Monocular

Towcester Research



The Towcester Research SPIR 640-LR Long range Thermal Monocular operates in the Long Wave 8 to 12 micron IR band and uses the advanced shutterless TapIR thermal imaging engine containing the latest ULIS Gen2 640x480 pixel uncooled detector for maximum performance and exportability.

The 75mm f/1 Germanium lens provides excellent DRI performance combined with outstandingly low weight and compact dimensions. The housing is machined from aircraft grade Aluminium and purged with dry Nitrogen to remove moisture.

The glass eyepiece and colour AMOLED viewfinder display has excellent clarity and eye-relief and incorporates a wide range dioptre adjuster. Selectable stadiametric ranging reticules and pictorial user interface symbols are normally shown in colour over greyscale image, custom reticules can be provided.

The simple four button keypad and intuitive user interface requires minimal user training.

- ❑ rugged Aluminium construction
- ❑ high quality optics
- ❑ DLC (diamond like Carbon) coated Germanium Lens
- ❑ shutterless operation
- ❑ colour AMOLED display
- ❑ selectable reticules
- ❑ x2, x4, x8 digital zoom
- ❑ four button interface

Options

- ❑ custom reticules
- ❑ 1/4" BSW tripod mount

thermal engine	TAPIR 640 640x480, 17 micron
max DRI range (man)	2250m, 550m, 280m
max DRI range (vehicle)	5000m, 1200m, 630m
sensitivity	50 mK @ 20 °C
startup time	<5 s typical
operating temperature	-40 °C to +55 °C
Field of View HxV	8° x 6°
objective lens	Germanium DLC 75mm f/1.0
eyepiece	glass 27mm aperture, 75mm eye relief
video output	analogue NTSC or PAL (BT.656-compliant)
power supply	2x CR123A or 12V external
mass	1000g incl. batteries
space envelope	265mm x 85mm x 85mm

