

ARJUN MR-XII



MEDIUM RANGE THERMAL WEAPON SIGHT



Arjun MR-XII is the next generation of small, lightweight weapon mounted thermal imaging scope. It is feature rich, yet easy to use. It is extremely compact, durable and consumes low power.

It provides the sharpest thermal images on the market, utilizing Tonbo Imaging's 12-micron TUVE core powered by advanced thermal image processor. The core and display operate at 50Hz update rate allowing the user to be behind the sight for long duration without seeing motion blur and getting fatigued.

It features advanced ergonomic design for one-handed operation, tactile-positive feedback, and silent buttons that are easily manipulated while wearing gloves.

Arjun places military, para-military and law enforcement professionals at the forefront of technology enabling target discrimination and recognition regardless of weather and lighting conditions.

It is designed to survive harsh battlefield conditions whether on ground, air or sea and is rated to survive shock of a 0.50 cal weapon

CAPABILITIES

- Integrated Digital Magnetic Compass
- Parallax Free collimating Eyepiece
- Easy and intuitive User Interface Menu
- Reduced SWaP
- Smooth 50Hz video display
- Weapons rated compatibility up to 0.50 cal

APPLICATIONS

- Medium-range target designation during day and night
- Dual purpose as weapon sight and handheld thermal imaging scope
- Law enforcement
- Border surveillance

TECHNICAL CHARACTERISTICS



THERMAL IMAGER

RESOLUTION	640X512
PIXEL PITCH	12 μm
FRAME RATE	50 fps
NETD	<50 mK
DIGITAL ZOOM	1X to 4X
POLARITY	WH / BH
EDGE DETECTION	Yes
FIELD OF VIEW	12.5° X 9.4°
MoA	1.2
RETICLES	Crosshair, MIL-DOT, SVD, BDC reticle for 5.56/7.62mm weapons, Custom

EYEPIECE

TYPE	OLED Monochrome
RESOLUTION	800x600
DIOPTER	+/- 4D
REFRESH RATE	50 Hz

DIGITAL COMPASS (OPTIONAL)

ACCURACY	1° Az and El
RESOLUTION	0.1°

MOUNT

TYPE	Picatinny, MIL-STD-1913 rail
FEATURES	Single lever lock, Return to Zero

ONBOARD MEMORY

IMAGE SNAPSHOT	60 SNAPSHOTS
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INTERFACE

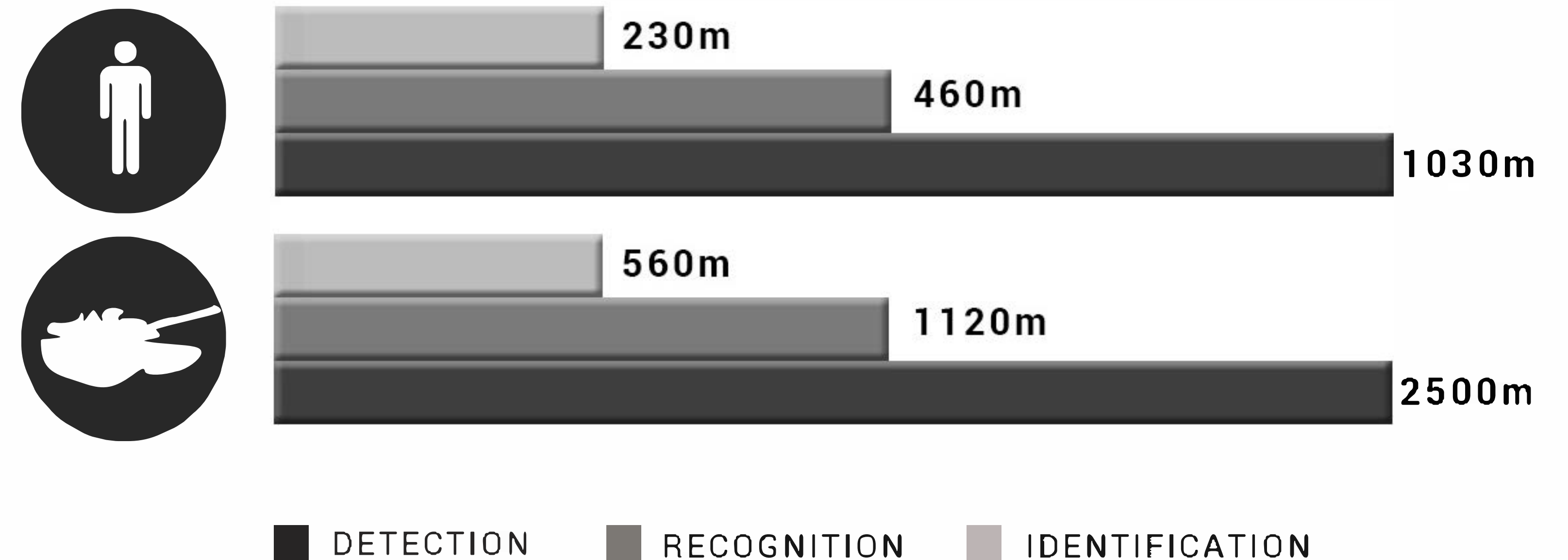
VIDEO OUT	Composite
SIGNAL SYSTEM	PAL / NTSC
CONTROL	Keypad
EXTERNAL POWER	12V DC

ELECTRICAL

STARTUP TIME	<8 sec
BATTERY	1 x 18650 cell
BATTERY ENDURANCE	10 h (@ 25°C)
POWER	< 1.4 W

ENVIRONMENTAL

COLOR	Black / Tan
WEIGHT	<610 g (including battery and mount)
DIMENSIONS	140 mm x 85 mm x 75 mm
OPERATING TEMPERATURE	-32°C TO +55°C
STORAGE TEMPERATURE	-40°C TO +65°C
SHOCK & VIBRATION	MIL-STD-810G
IP ENCAPSULATION	IP67
HUMIDITY	>95% RH



Note:

Actual range may vary depending on environmental conditions and user experience.

Assumptions: Human Critical Dimension 0.95m², DRI according to Johnson's criteria, 50% probability of achieving objective at specified distance given 2°C temperature difference and σ = 0.2/km for atmospheric attenuation factor



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