

# Kepler RWS

## Long Range Remote Weapon Sight

NVTs's Kepler RWS is a compact, powerful long-range weapons grade surveillance and targeting system. Loaded into Kepler's rugged housing is a large format 5.3 MP HD Visible Camera.

Kepler's modular design allows for a wide range of sensor options to meet diverse customer requirements.

Engineered for battlefield operations, the Kepler RWS is built to withstand weapon shock, vibration, sand, and severe weather. Only Kepler RWS delivers both true HD Thermal and Visible cameras delivering long range high resolution imagery, and targeting data.

### Features:

- Long Range IR and Visible Continuous Optical Zoom Lens ensures accurate target assessment and engagement.
- Maintains stable line of sight while experiencing weapon shock, heavy vibration, and temperature change.
- Precision targeting capability for weapons guidance and re-control applications.
- High Resolution 1.3MP MWIR Thermal Imager delivers over 4X the definition than the standard 640 x 480 format, providing improved detection and superior resolution.
- Thermal image enhancement that digitally sharpens, precision tunes the contrast for exceptional detail in poor visibility.
- Large Format 2/3" CMOS 5.1 Megapixel HD Visible Camera, coupled with a 565mm 36x optical zoom lens that delivers up to 50% increased coverage and range compared to the competition.



# Kepler RWS Product Specifications

## HD Visible Camera:

HD Sensor Size/Type:	2/3 CMOS
Resolution:	5.1 Megapixel 2464 (H) x 2056 (V)
Lens:	15.7-565mm 36x optical zoom
WFOV:	34°H x 19.5°V
NFOV:	1.02°H x .58°V

## Laser Range Finder:

Range:	8km
Class:	Class 1: Eye-safe
Wave Length:	1535nm
Range Accuracy:	+/- 5meters

## Thermal Imager:

Sensor Type:	MWIR HD 1280 x 1024 or 640 x 512 Bnn, or InSb FPA
Wave Length:	3-5µm
Pixel Pitch:	10µm HD, 15µm VGA
Lens:	F/3-4 15-330mm 20x Optical Zoom (standard)
FOV: (15-330mm)	Wide: 35.7°H x 29°V Narrow: 1.7°H x 1.4°V
Cooler life:	20,000 hours std. (30,000 hours optional)

## Environmental:

Housing:	Nitrogen Purged Milled Aluminum, Corrosion Proof Finish MIL-STD-810. IP66/67
Shock:	Weapons Grade Vibration Articulated Mount Shock Isolation
Operating Temperature:	-40°C - +60°C Designed to MIL-STD 810 & MIL-STD 461

## Electrical:

Power:	18-32 VDC 280 Watts, Nominal, 350 Watts Max
Control Interface Options:	GigE, RS432, 422, 232, 10/100 Ethernet
Optional:	Cable-free side mount, quick-release power/data connection.

## Laser Pointer: (optional)

Nominal wavelength:	830nm
Power:	150mW
Classification:	Class 3B

## Sensor Options:

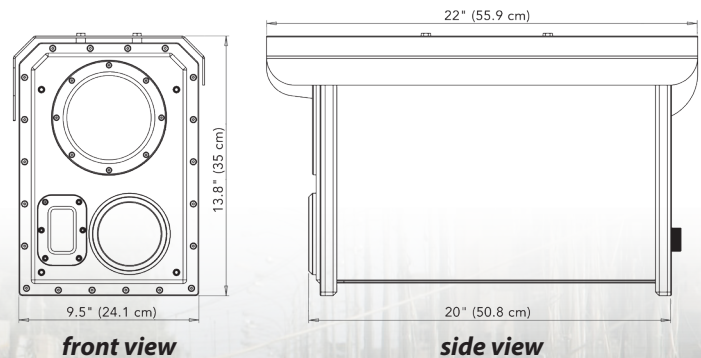
Laser Range Finder: 8Km, Class 1
SWIR Sensor and Lens Options
MWIR and LWIR Sensor and Lens Options
Laser Pointer (Class 3B)
HD Visible Lens and Camera Options

## Optional Accessories:

Armor Shielding Protection for Small Arms Fire
L-Bracket, and Connection Kit for Side Mounting

(shown with Long Range 15-330mm IR & 15.7-565mm Visible Lens)

note: smaller housings available based on lens and camera requirements



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