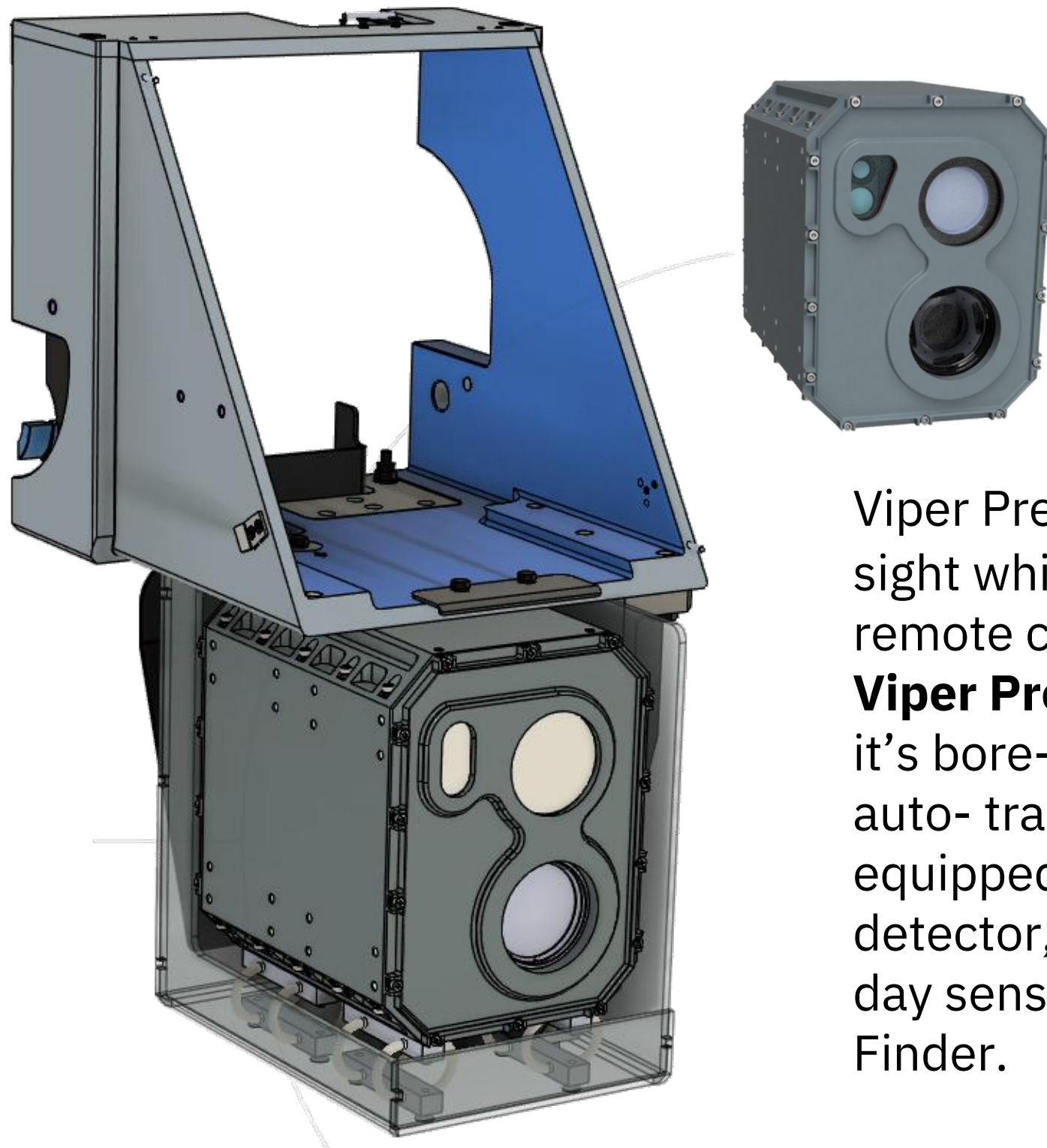




Viper Precision

Viper Precision is our cutting edge weapon sight which was specially developed for remote control Weapon systems (RCWS). **Viper Precision** allows precise hits due to its bore-sighted sensors and easy to use auto-tracking capabilities. Viper Precision is equipped with high sensitivity Cooled detector, Global shutter x36 zoom FULL-HD day sensor and 8.6Km range Laser Range Finder.

COOLED MWIR WEAPON SIGHT SYSTEM

GLOBAL SHUTTER X36 DAY SENSOR 1/2.3" SONY GLOBAL SHUTTER
IMX392LQR-C CMOS SENSOR, FULL-HD 1920x1080p, 6-216mm x36 ZOOM
GLOBAL SHUTTER, SAPPHIRE WINDOW H.FOV 52.62° - 1.95°

SPARROW MWIR SENSOR

XBn FPA10μm COOLED 15-250mm x16.6 ZOOM NETD<28mK H.FOV 35.5°- 2.2°,
MTBF>18,000 hours, SPECTRAL RESPONSE 3.6 – 4.2 μm, FPA TEMP 150°K

32km LRF (LASER RANGE FINDER)

EYE SAFE 8.6KM NATO TARGET, 0.5-0.01m PRECISION, 0.6MRAD BEAM
DIVERGENCE 1m RESOLUTION, <30m TARGET DISCRIMINATION, ALIGNMENT
POINTER, SAPPHIRE WINDOW

CONNECTION INTERFACE

HERMETIC Type C: D38999/23YE35PN, 2 x ANALOG VIDEO, RS-422 CONTROL
INTERFACE, ETHERNET VIDEO & CONTROL

PSU (POWER SUPPLY UNIT)

18-32VDC 120W Max. MIL.STD1275, MIL.STD704, MIL.STD810G POWER
STABILIZER

ENVIRONMENTAL

IP-67, NITROGEN PURGED, HERMETIC SEALED, ALUMINUM CHASSIS (6061)
STAINLESS STEEL SCREWS (N316) ,GROUND PIN CONNECTOR, OPTIONAL
SHOCK ABSORBERS

OPEN SOURCE API*

VIDEO CONTROL OPEN SOURCE API, PTZ TRACKING SAMPLE APP (C#.NET)

DIMENSIONS

(LxWxH, mm)250x190x240mm, WEIGHT 9,000 g



Viper Precision

EMBEDDED VIDEO TRACKER*

DUAL CHANNEL EMBEDDED VIDEO ANALYTICS TRACKER (NON NEURAL
NETWORK) PTZ ETHERNET TELEMETRY INTERFACE CONNECTION

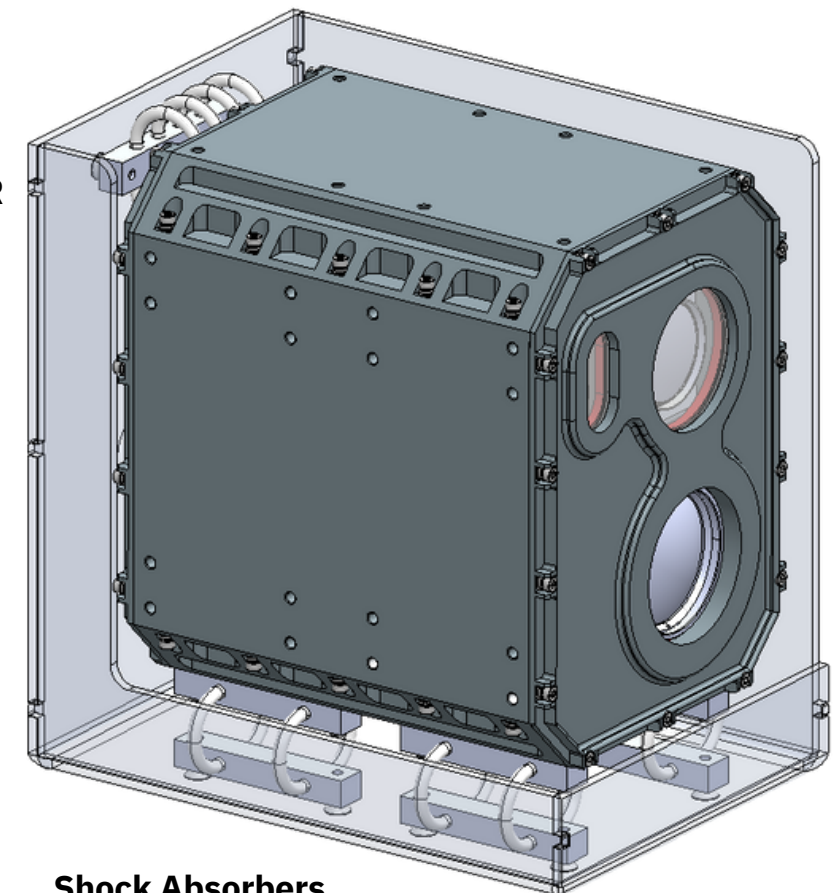
DIGITAL VIDEO STABILIZER*

DUAL CHANNEL DIGITAL VIDEO STABILIZER INCLUDING ROLL CORRECTION

***on digital versions only**

Shock Absorbers

SB8-190-04-A ISOLATOR

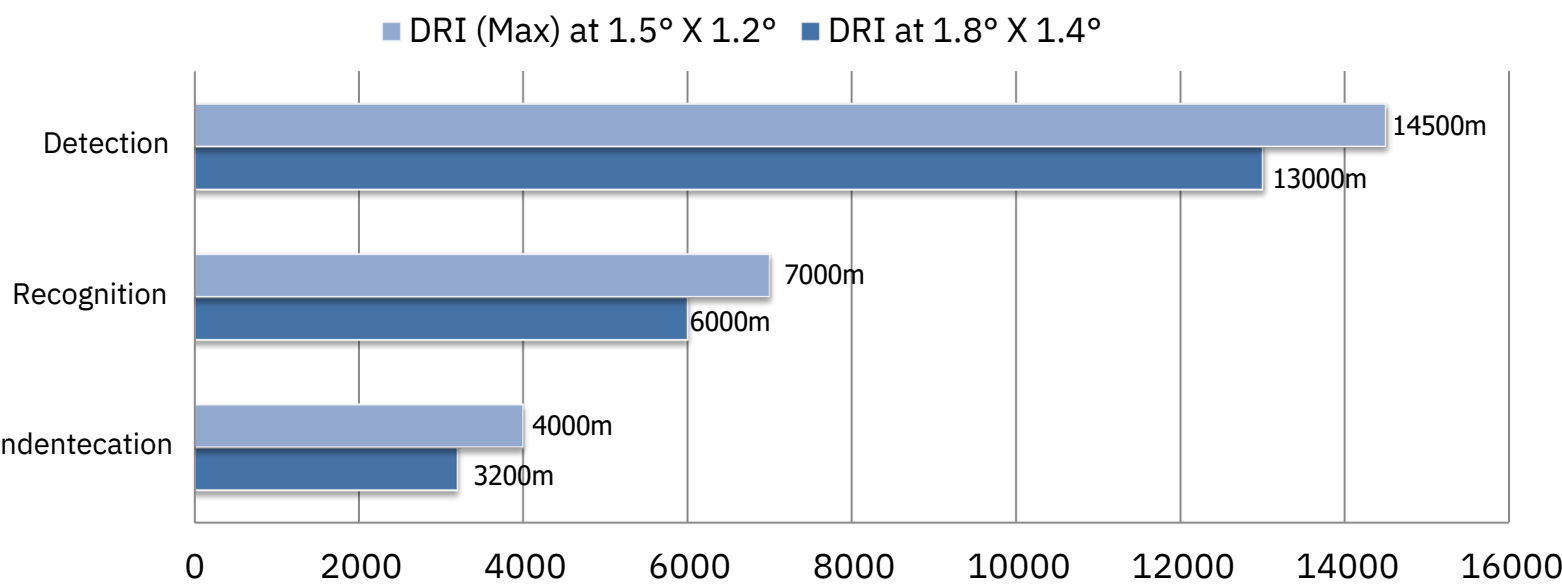


Shock Absorbers

SB8-190-02-A ISOLATOR

SYSTEM OVERVIEW

DRI MWIR (m)

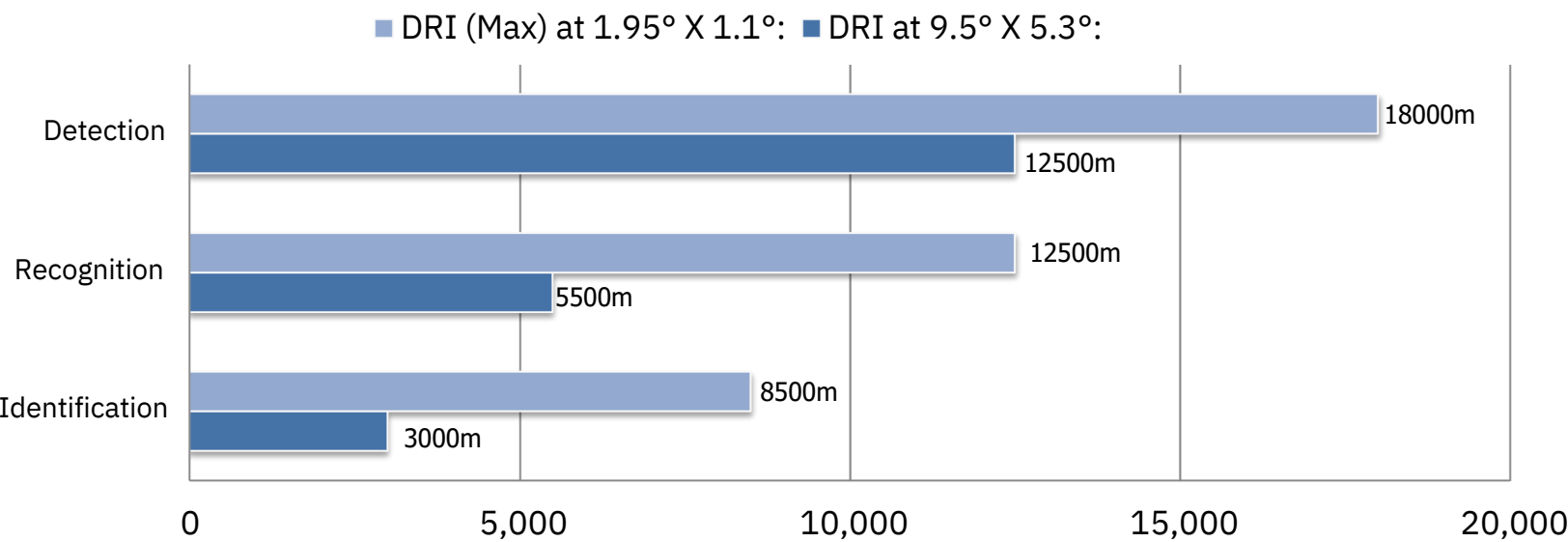


DRI LRF (m)

@Condition:	Range performance:
beam filling target, 50% albedo, 10 Km visibility	11 Km
Target size 2.3 x 2.3 m, visibility 25 km, target reflectivity 30 %, detection probability > 90%	8.6 Km

SIGHTMWIR PART NUMBERING:
SM-640-250-36-N

DRI Day camera (m)



SM-[RES]-[LENS]-[ZOOM-DS]-[LRF]

[RES] LWIR RESOLUTION
640 (MWIR 640x512)

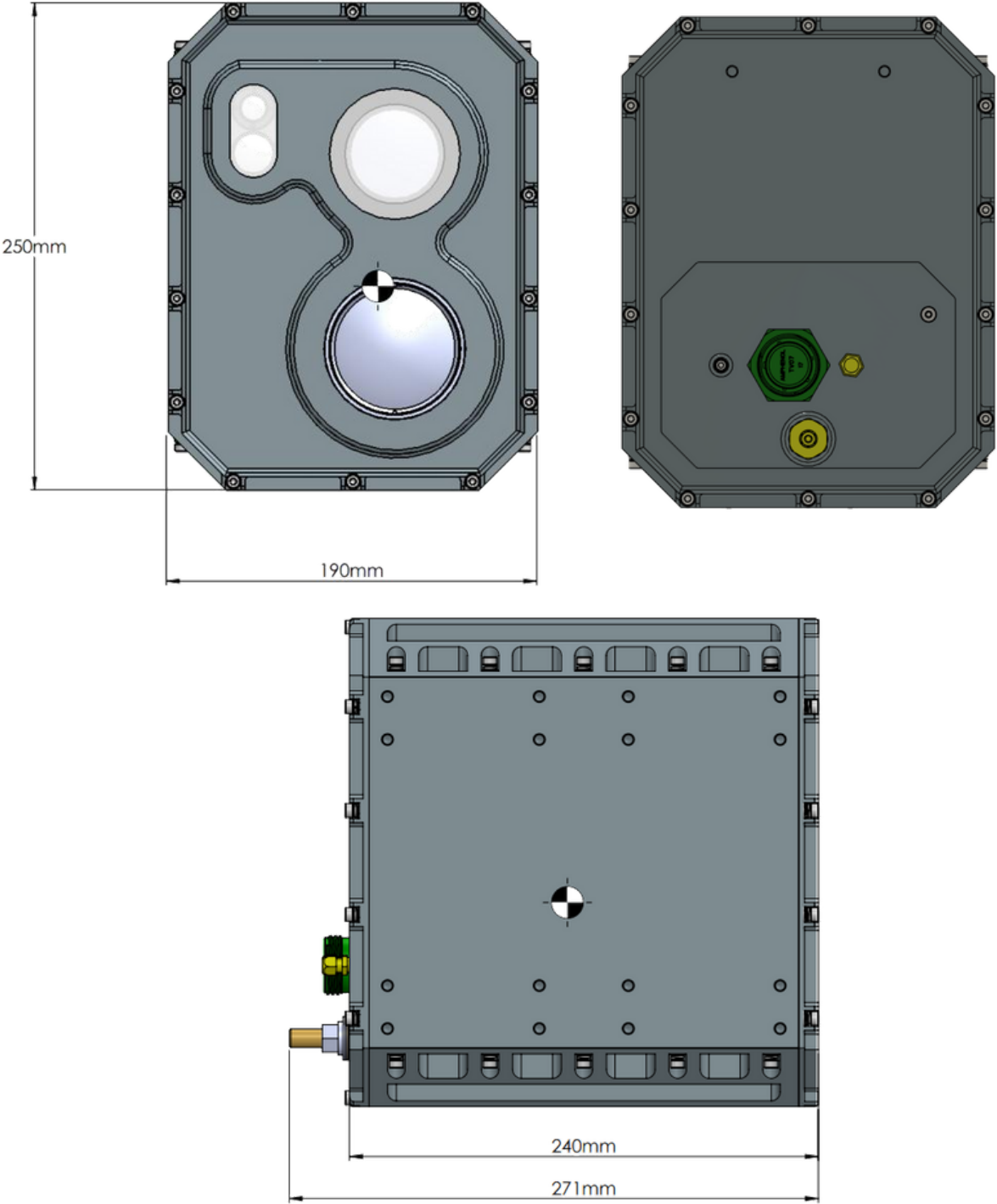
[LENS] LWIR LENS
250- Focal Length 25mm~250mm

[ZOOM-DS] ZOOM DAY SENSOR
36 – x36 Optical Zoom, Global Shutter

[LRF]
N – NONE
LRF – 32Km Range

SYSTEM OVERVIEW

DIMENSIONS (mm)



#	PART	DESCRIPTION	Laser	Range
1	LRF & Window	Finder SAPPHIRE Window		
2	DAY Sensor & Window	Camera TV With Zoom SAPPHIRE Window		
3	MWIR Sensor & Lens	Sparrow MWIR Sensor TEMMEK DOUBON 250 Lens		



SYSTEM OVERVIEW

PART Numbering Index

#	PART	DESCRIPTION Laser Range
1	LRF & Window	Finder SAPPHIRE Window
2	DAY Sensor & Window	Camera TV With Zoom SAPPHIRE Window
3	MWIR Sensor & Lens	Sparrow MWIR Sensor TEMMEK DOUBON 250 Lens



Viper Precision

