

SEG10

Dual Channel (EO-LWIR) Stabilized Gimbal

Ruggedized dual-channel thermal imaging system for unmanned ground vehicles and EO/IR defense surveillance

APPLICATIONS

Border · Armored · **UGV** · Targeting · Radar · Comms mast

FIELD USE On MES01 above ASELSAN's AVAZ acoustic system, on a tracked UGV

QUALIFIED TO **MIL-STD-810G · MIL-STD-461G**

DETECTOR	EO OPTICAL ZOOM	NOMINAL SPEED	PAN RANGE	WEIGHT
640 × 512 px	30×	180 °/s	360° continuous	4,4 kg

MAIN FEATURES

Dual-Channel Imaging

A **1920 × 1080** day camera with **30×** optical zoom and a **640 × 512** LWIR thermal imager in one **155 mm** gimbal, with both channels displayed at the same time.

Stabilized Line of Sight

Two-axis IMU and encoder based dual-loop stabilization holds the image and the tracker on target while the host vehicle is moving.

STANDARD CONFIGURATION

SEG10-L0625-E1930X · Tolerance **±5 %**

PERFORMANCE PARAMETERS	
Pan and Tilt – Nominal Speed	**180 °/s**
Pan – Axis Range	**360° continuous**
Tilt – Axis Range	**±45°**
Weight	**4,4 kg**
THERMAL IMAGER MODULE	
Detector	**640 × 512 px**
NETD	**50 mK**
Thermal Optical Zoom	**None**
Detection – Vehicle	**3,2 km**

EO CAMERA MODULE	
Resolution	**1.920 × 1.080 px**
EO Optical Zoom	**30×**
EO Horizontal Field of View	**63,7-2,3°**
Detection – Vehicle	**13,0 km**
ELECTRICAL & INTERFACE	
Power Consumption (Max)	**150 W**
Operating Voltage	**18-32 VDC**
MECHANICAL DATA	
Diameter	**155 mm**

HOW TO ORDER

Every step, option and test: **Product Catalog, page 03**

PART NUMBER	**SEG10 – [thermal imager] – [EO camera] – [options]** · 1 build combination
OPTIONS	**LCKT** Lens Cleaning Kit **LG##** Label Language