

COBRA - STABILIZED SYSTEM FOR OBJECT RECOGNITION AND TARGET ACQUISITION



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The COBRA system is designed to equip terrestrial vehicles, special destination ships and fixed observation posts.

The COBRA system ensures:

- Daytime and nighttime objects acquisition;
- Storage of the object images;
- Distance measurement to field targets;
- Positioning of the objects upon a digital map;
- Compression of the digitally processed data for long-range transmission

STRUCTURE :

The COBRA system is composed of the following subassemblies:

- The PAN&TILT stabilized platform;
- Stabilizing block;
- BS 001 sensor block;
- TL 1.54 μm laser rangefinder;
- BAC 001 command and control block;
- SPDI 001 image and data processing system.

CHARACTERISTICS:

- **Supply voltage:** $18 \div 32 \text{ V c.c.}$;
- **Operating temperatures range:** $-32^\circ \text{ C} \div +49^\circ \text{ C}$;
- **Storage temperatures range:** $-32^\circ \text{ C} \div +60^\circ \text{ C}$;
- **Equipped platform weight:** Max. 25 Kg;
- **Azimuth rotation range:** $n \times 360^\circ$ (6400 mils);
- **Elevation rotation range:** $\pm 90^\circ$ (1600 mils);
- **Minimum speed in azimuth and elevation:** less than $0.0056^\circ \text{ s}^{-1}$ (0.1 mils s⁻¹);
- **Maximum speed in azimuth and elevation:** less than 60° s^{-1} (1067 mils s⁻¹);
- **Maximum stabilization error in azimuth and elevation:** Less than 0.3 mils p-p;
- **Position resolution in azimuth and elevation:** 0.0056° (0.1 mils);
- **Position accuracy in azimuth and elevation:** 0.005625° (1 mils).

