



# PBOS-19S

## Optoelectronic observation-measuring device



Portable Border Patrol System PBPS-19 is an optoelectronic observation-measuring device applied for observation by more various and complementary sensors which observe zone of interest in same time for aquisition data. Also used for detection and identification targets of interest during day, night and in low visibility conditions.

### Basic characteristics:

- multisensor electronic block
- pantilt-positioner
- laser rangefinder IEC 60825 eye-safe
- laser wavelength 1064 nm (optional 10540 nm)
- distance measuring range 1 80-22500 m
- communication interface Ethernet 10/100 Base-T/WiFi
- filled with nitrogen
- impact and vibration resistant

### Application:

- orientation guns of interest
- detection and measuring target dista



## Technical characteristics:

• Laser type	Class 1 (IEC 60825 ) or Nd:Yag
• Laser wavelength	1064 nm or 1540 nm
• Laser energy	±15 mJ
• Laser beam divergence	≤1.3 mrad
• Distance measuring range	≥180-20000 m
• Distance measuring accuracy	±2 m
• Measured distance display	for 2 targets
• Measuring distance frequency	≥ 6 measuring/min.
• Transfer data	RS 232
• Day channel	Digital zoom 16x, Optical zoom 30x
• Thermal camera	DRI (customer requirement)
• Thermal camera detector type	uncooled, Vox
• Thermal camera resolution	640x512 pixels
• Thermal camera digital zoom	2x, 4x
• Digital magnetic compass	Accuracy of measuring angle by vertical 0,5°
• Compass measuring frequency	20 measures/s
• GPS position accuracy in H/V plane	2 m/4 m
• Horizontal/Vertical position accuracy	SPS ≤ 5 m SBAS ≤ 5 m
• Pantilt accuracy	0.05°
• Pantilt communication	Ethernet 10/100 Base-T /WiFi