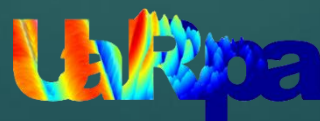


Ukrainian Advanced Research Project Agency «UARPA»

Optical Detection System

«ANTI-SNIPER»

Detect, identify and localize the optical systems, snipers and observers





OPTICAL SYSTEM FOR DETECTION AND TARGETING OBSERVERS SYSTEMS

PARAMETER

Sensor type
 Connection type
 Resolution
 Optical Zoom
 Minimum illumination

OPTICAL PARAMETERS:

VALUE

CMOS
 Ethernet
 1280*720
 30x
 0.005lux

DETECTION OPTIONS:

Min. distance detection target
 Max. distance detection of a sight with a diameter of 50mm
 Accuracy of distance
 Horizontal viewing angle
 Vertical viewing angle
 Maximum scan speed
 Global position Sensor
 Accuracy determining the coordinates of the target at a distance (L = 800m / L = 1500m)

100 m
 1500 m
 3m
 ±180°
 ±30°
 3°/c
 GPS
 13/22m

ELECTRICAL PARAMETERS:

Voltage range
 Power supply
 Battery life continuous operation, min, hours

22-30V DC
 Battery 48V (POE),
 Charge from 22-30
 B(DC), 220B(AC)
 ≥6 hours

USER INTERFACE:

Type
 Display
 Dimensions (DxWxH)
 Weight

Military PC
 15,6" TFT LCD FHD
 display
 (1920 x 1080)
 410 x 65 x 290mm
 3,5 kg

CONSTRUCTIVE PARAMETERS:

Dimensions of the optoelectronic unit (DxWxH)
 Weight of the optoelectronic unit
 Dimensions of the support-turning device (DxWxH)
 Weight of the support-turning device
 Operating temperature range
 Total weight of the system

220x300x100mm
 8kg
 190x300*220mm
 10kg
 -20...50°C
 Up to 52 kg



- ❖ The complex was undergoing tests conducted by Ministry of Defense of Ukraine and Armed Forces of Ukraine.

- ❖ All claimed tactical and technical characteristics of the complex are confirmed.

- ❖ **ADVANTAGES:**

- Reduced mass-dimensional characteristics
- Increased performance
- Latest targeting algorithm

GENERAL TECHNICAL DATA



PARAMETR	VALUE
Minimum detection distance	100 m
Maximum detection distance	1500 m
Accuracy of distance	3 m
Horizontal viewing angle	$\pm 180^\circ$
Vertical viewing angle	$\pm 30^\circ$
Global position	GPS
The error of determining the coordinates of targets at the distance (L = 800m / L = 1500)	Not more 13/22 m
Power supply	Battery Pack 48V (POE), Charge from 22-30V (DC), 220V (AC)
Display	17.2" TFT LCD FHD display (1920 x 1080) L = 800 Cd / m
Operating temperature range	-30...50°C
Total weight	52 kg

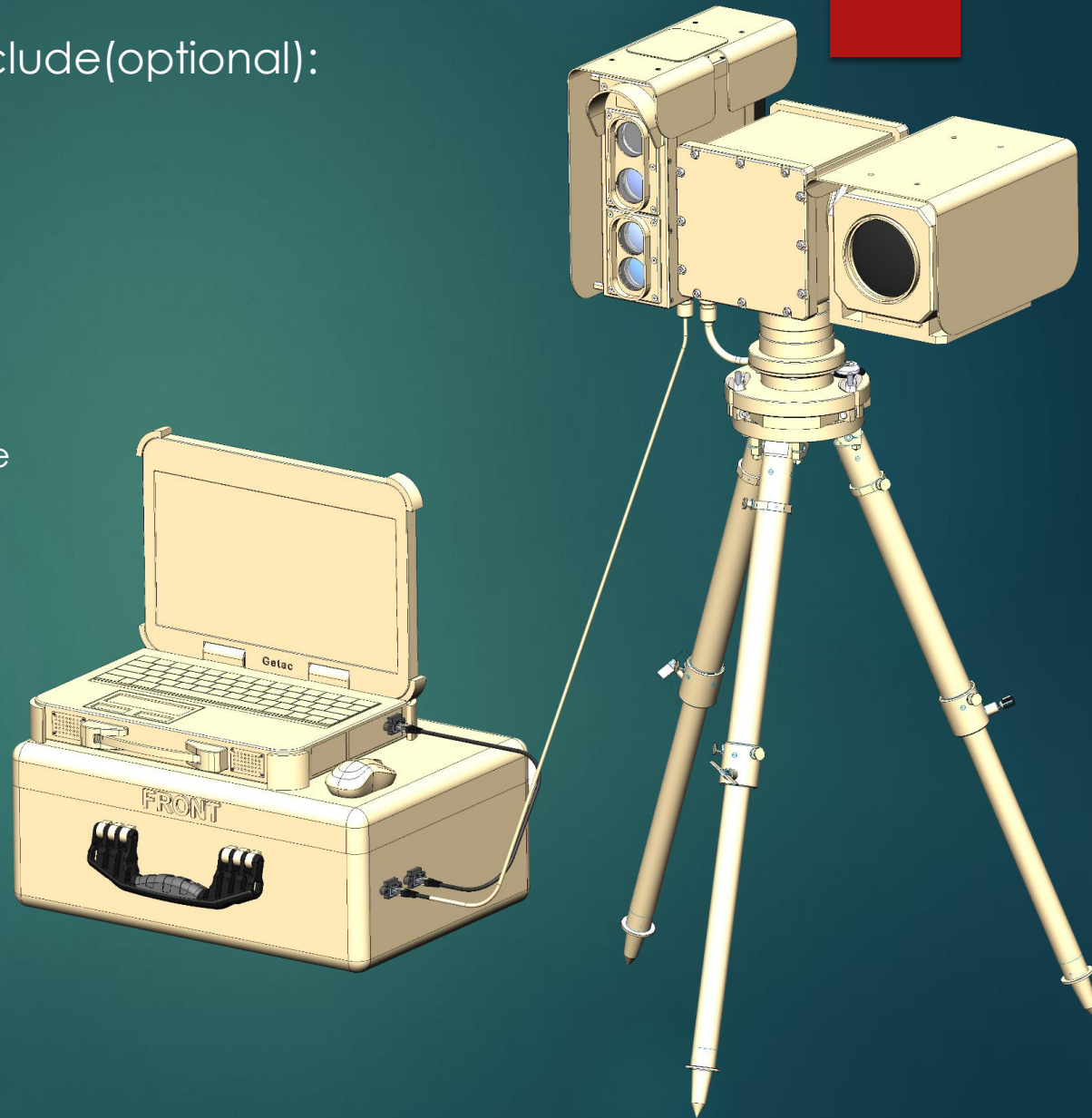
System configuration options:

Anti-Sniper system can include (optional):

- Thermal Sensor
- SWIR sensor

Our solutions:

- Modern algorithms and software
- Unique hardware solutions
- Mechanical solutions
- Range Finding up to 2000 m
- Accuracy of distance 3 m
- Accuracy of the target acquisition not more 15 m



Tests Results:

The screenshot displays a laser scanning software interface. The main window shows a 3D point cloud of a field with a red box highlighting a target. The interface includes a top menu with options like 'RS Log' and 'Увімкнути живлення'. On the right, there is a map view showing the current location with coordinates: $50^{\circ}57'18.21''$ N, $30^{\circ}46'6.23''$ E, and a distance of 1507 m. The control panel at the bottom features a 'LASER RADIATION' warning icon, a 'Фільтр' section, a 'GPS' section with 'Координати знайдено', a 'Меню далекоміра (X)' section with 'Відстань (Z)' set to 1507 m, a navigation section with buttons for 'Вліво (A)', 'Вгору (W)', 'Вправо (D)', 'Вниз (S)', and 'Стоп (Shift)', and a 'Сканування' section with 'Почати сканування' and 'Сканування завершено' buttons. The bottom left shows a timestamp of 14:27:44.867 and a copyright notice: 'ЮА.РПА. 2018. Усі права захищено.'

Targeting on distance 1507m

Tests- video Results:

The screenshot displays the AntiSniper software interface. The main window is titled "AntiSniper" and shows a video feed of a field with a yellow crosshair and a yellow rectangular frame. The interface includes several control panels:

- Top Panel:** "Опції" (Options) with buttons for power, camera, keyboard, mouse, RS, and power management.
- Right Panel:** "Сектор сканування" (Scanning Sector) set to 1.9° x 0.22°. "Реперні точки" (Reference Points) are shown as green circles. A map view shows a target location with coordinates: 30° 25' 06.6" E, 50° 37' 05.4" N. A scale bar indicates 0 m, 600 m, and 1200 m.
- Zoom Panel:** Buttons for zoom levels: 5, 10, 15, 20, 25 (selected), 30. A "Зум" (Zoom) section includes "+" and "-" buttons and a "x25" button.
- Speed Panel:** "Швидкість:" (Speed) slider set to 75%. "Авторежим" (Autoregime) is checked. Buttons for 10, 15, 20, and 30 are present.
- Control Panel:** Buttons for "Вліво (A)", "Вгору (W)", "Вниз (S)", "Вправо (D)", and "Стоп (Shift)".
- Bottom Panel:** "Фільтр" (Filter) with "Викл" (Off) and "Вкл" (On) buttons. "GPS" is active, showing "Координати знайдено" (Coordinates found). "Додати опорний пункт" (Add reference point) and "Застосувати опорний пункт №" (Apply reference point №) buttons are present. "Запис відео (test.avi)" (Record video) is active. "Меню далекоміра (X)" (Range menu) and "Відстань (Z)" (Distance) buttons are also visible.

Targeting on distance 1503 m

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