

BASTION TECH

BTH-System

ESM

Passive

Drone

Detection

+ SEES THE DRONE, NEVER GIVES ITSELF AWAY

DETECT

IDENTIFY

EW COMMAND

+ IN SERVICE AND COMBAT PROVEN

Overview

To protect yourself from a drone, you first have to know it is there and what it sees. BTH-System ESM listens to the air, finds the hostile drone, shows the soldier the battlefield through its eyes and sends the command to the EW.

BTH-System ESM by Bastion Tech is a passive drone detection and identification sensor, class ES (Electronic Support). It emits nothing: it only receives signals, so the enemy cannot locate it by its emissions.

The sensor detects drones at up to 3 km. Artificial intelligence identifies the drone type in 1-2 seconds, and every detection is recorded in the log: type, frequency, distance.

+ THROUGH THE ENEMY DRONE'S EYES

The main thing the soldier gets: on his own screen he sees what the captured hostile drone sees. The video from the enemy drone's camera is shown on the control unit, and the soldier understands where the enemy is looking, what he is searching for and where the threat comes from. The enemy does not know that his drone is being watched.

Having detected the drone, BTH-System ESM sends the command to the EW system, which suppresses the drone before it reaches its target. This makes the sensor the “brain” of protection: it finds, identifies and gives the signal to suppress.

The kit is light, about 3.5 kg. The soldier takes it along and works autonomously on its own battery for up to 7 hours: in a trench, in a tree line, in a forest belt. The system is ready 25 seconds after power-on. In a vehicle the kit recharges from the on-board network.

DRONE IN THE AIR

> **SIGNAL RECEIVED**
- Passive, no emission, up to 3 km

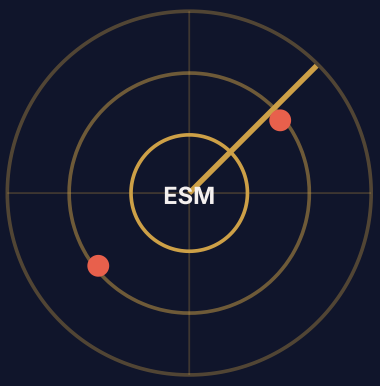
> **DRONE IDENTIFIED**
- Artificial intelligence, 1-2 seconds

> **VIDEO INTERCEPTED**
- The soldier sees on screen what the hostile drone sees

> **COMMAND TO EW**
- The EW system suppresses the drone
- Event recorded in the log

> DETECT · IDENTIFY · INTERCEPT VIDEO · COMMAND TO EW

DETECT



Passive Detection

The sensor scans the air and finds emitting drones at up to 3 km.

It only receives and emits nothing: the enemy cannot see the post on air.

IDENTIFY



AI Identification

Artificial intelligence identifies the drone type in 1-2 seconds.

The computer is built into the sensor: no external computer is needed.



OPERATOR WORKPLACE

The whole picture is shown on the soldier's screen: drone type, detection log and the video from the captured hostile drone's camera. The soldier sees what the drone sees and immediately understands what threatens him.

- Video from the hostile drone's camera on the control unit screen
- Operator tablet or remote control unit with display
- Log of all detections: type, frequency, distance

Where It Is Used

BTH-System ESM is placed wherever you need to know in advance that a drone is approaching.

Defensive lines and checkpoints

Early warning of drones on the line of defence, at checkpoints and command posts. The soldier sees what the enemy drone is reconnoitring and switches on the EW before the strike.

In the field, with the soldier

The soldier takes the kit along and works autonomously for up to 7 hours: in a trench, in a tree line, in a forest belt. He knows about the drone in advance and sees its picture.

In the vehicle

On the road the kit rides in the cab and recharges from the 9-32 V on-board network. On arrival the soldier picks it up and goes to work in the field.

Critical infrastructure

Watching the air over energy, transport and other important facilities.

Airports

Passive sensors along the airport perimeter find drones and alert the security service.

Borders

Monitoring drones along border sections.

COMMAND TO EW

BTH-System ESM is the “brain” of detection. Having found and identified a drone, it sends the command to our EW system, which suppresses the drone. Detection and suppression work as one: from a signal on air to suppression without extra actions by the soldier. An open API also lets the data flow into the customer's command and control systems.

Kit and Power

The whole kit weighs about 3.5 kg: the soldier carries it and works autonomously.



Sensor

Antenna module with a built-in AI computer.

Workplace

Operator tablet or remote control unit with display.

Power

Own battery: up to 7 hours of autonomous work in the field. Recharging and power from the vehicle's 9-32 V on-board network.

Protection

IP54 housing: protected against dust and splashing water.

3 km	1-2 s	25 s	up to 7 h
Drone detection	Type identification	Ready after power-on	Autonomous work in the field

What It Detects

- FPV drones
- Mavic-type drones
- Other drones that operate over a radio link

BTH-System ESM

Sees the drone, never gives itself away.

Contact Details

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