

# *Hornet* XR



**Fully autonomous UAV**

for intelligence, surveillance, target acquisition  
and reconnaissance missions (ISTAR)



Hornet XR is a cutting-edge autonomous UAV designed for defense and security.

Unmanned Aerial Vehicle (UAV) **Hornet XR** (extra range) – new, upgraded version with extended features and experienced in Ukraine

#### ENDURANCE



Flight time in the air for up to **3 hours**

#### LINK RANGE



Control range - up to **30 km** or up to **45 km** with LRTA  
Total range - up to **160 km**

#### SPEED



Cruise speed - **16m/s**  
Maximum speed - **25m/s**

#### WEIGHT



Unmanned Aerial Vehicle (UAV) weight **2.9 kg**

#### HARDLY VISIBLE



**Hornet XR** is quiet and virtually undetectable. Very silent system and hardly visible in the air.

#### LAUNCH



Launchable by hand and deep stall landing

#### STANDARDS

Visual information and metadata are stored according to the **STANAG-4609**

The system can be integrated with other NATO systems according to the **STANAG-4586** Level-2 standard

#### DATALINKS



Post to Radensk | Altitude 1.2 km

Our in-house designed and manufactured datalink is jamming resilient and battlefield tested. It comes with AES-256 encryption and can transmit video feed directly to unlimited amount of Hornet RVTs (Remote Video Terminal).

Link range - 30+ km

AES-256 Encryption

Battlefield tested

Hornet RVT



## CAMERA PAYLOAD SPECIFICATION

The camera turret is steerable and has mechanical two-axis stabilisation together with 3D axis digital stabilisation. The camera tower is equipped with two high-resolution daylight-sensitive cameras and a thermal camera



### ENVIRONMENTAL RESISTANCE

Operating temperature: -20°C to +40°C

### DAYTIME CAMERA SPECIFICATION

Cameras: x2 16MP sensor

Horizontal field of view: 60° - 3°

Resolution of the image transmitted to the ground control station: 1280 × 960 (960p)

### THERMAL CAMERA SPECIFICATION

Camera resolution: 640x512

Horizontal field of view: 14mm lens HFOV 32° (GS-214X)  
18mm lens HFOV 24° (GS-218X)

The camera module is equipped with different thermal cameras.

Module name	Thermal camera	Sensitivity
Payload GS-218X	Teledyne FLIR Boson+ 640 x 512, Industrial Grade	<20mK
Payload GS-214X	Teledyne FLIR Boson+ 640 x 512, Industrial Grade	<20mK



Whether gathering intelligence, conducting surveillance, or performing reconnaissance

# HORNET XR IS YOUR ULTIMATE PARTNER IN THE SKIES



## AIRCRAFT GENERAL SPECIFICATION

Link Range	Up to 30 km* or up to 45 km* with LRTA * Within line of sight and in the absence of additional disturbances
Flight time	Up to 3 h
Speed	16m/s cruise, 25 m/s maximum
Operational altitude	300 m above ground
Wingspan	160 cm
Length	85 cm
Weight	2.9 kg
Launch method	Hand-launched. Take-off is possible even in a confined area.
Recovery method	Deep-stall landing. Landing is possible even in a confined area.
Personnel	Two operators

## GROUND CONTROL STATION SPECIFICATION

Communication encryption	Equal or better than AES256
Communication frequency band	2.3 - 2.7 GHz
Minimum computer requirements	A laptop with Windows 10 OS, CPU Intel i5, 4Gb RAM, 15Gb space on disc
Software	Software is provided with the aircraft and is used for aircraft configuration, mission planning, video monitoring, camera control, etc.

**Hornet XR** was designed from scratch by **Granta Autonomy**. We have been developing reconnaissance remotely controlled aircraft and gimbals since 2015. Most of our team has a military background and regularly participates in military training as drone operators providing intelligence information from the air. When developing our products, we aim to create professional, reliable reconnaissance tools to perform the mission in any condition.

**Granta Autonomy** is an innovative and experienced engineering company with a focus on the development and production of unmanned aircraft systems (UAS) and components for intelligence, surveillance, target acquisition & reconnaissance (ISTAR), search & rescue, and loitering munitions.



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