

PROFESSIONAL COMPONENTS FOR UNMANNED AERIAL SYSTEMS

Components

CAMERA SYSTEMS

O.





USG-405 EO/IR/LRF

Sensors: Full HD with 30x optical zoom and thermal camera 4x digital zoom Additional optical zoom 5x for IR sensor Laser rangefinder LWIR-motorized focus

Size: 190x270 mm (7,5x10,6 in)
Weight: 3,35 kg (7,83 lb)

Features:

Digital stabilization Target tracking Onboard recording Anti-fog feature

Configurations:



USG-401 EO/LRF

Sensors:

Full HD with 30x optical zoom 4x digital zoom Laser rangefinder

Size: 190x270 mm (7,5x10,6 in) **Weight:** 3,1 kg (6,85 lb)



Features: Digital stabilization Target tracking Onboard recording Anti-fog feature



USG-402 EO/IR

Sensors:

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Full HD with 30x optical zoom and thermal camera 4x digital zoom LWIR-fix focus

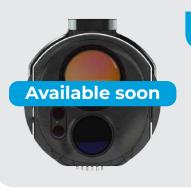
Size: 190x270 mm (7,5x10,6 in) **Weight:** 3,1 kg (6,85 lb)



Features: Digital stabilization Target tracking

Target tracking Onboard recording Anti-fog feature





USG-232 EO/IR



Sensors: Full HD with 30 x optical zoom and thermal camera 4x digital zoom 360° continues rotation

Size: 138x200 mm (5,43x7,9 in) Weight: 1,2 kg (2,65 lb)



Features: **Digital stabilization**

Target tracking Onboard recording Anti-fog feature



USG-231 EO



Day-view Full HD 30x optical zoom 4x digital zoom

Size: 109x147 mm (4,3x5,8 in) Weight: 600 g (1,32 lb)



Features: **Digital stabilization** Target tracking Onboard recording Anti-fog feature



USG-231T IR



Uncooled thermal imaging module 4x digital zoom 360° continues rotation

Size: 109x144 mm (4,3x5,7 in) Weight: 690 g (1,52 lb)



Features:

Digital stabilization Target tracking Onboard recording



USG-261 EO



Day-view Full HD 10x optical zoom 3x digital zoom



Size: 90x119 mm (3,54x4,7 in) Weight: 300 g (0,66 lb)



Features: **Digital stabilization Target tracking** Onboard recording Anti-fog feature

USG-261T IR Sensors:



Uncooled thermal imaging module 4x digital zoom 360° continues rotation

Size: 90x128 mm (3,54x5,04 in) Weight: 390 g (0,86 lb)

Features:

Digital stabilization

Target tracking Onboard recording

ANTENA TRACKERS

Our long-range antenna-tracker for UAV maximizes radio communication range between drone and the ground control station and therefore allows using of the maximum potential of the data link.

AT-1 80+ km (50+ mi) on quadropod 130+ km (81+ mi) on 5 m mast

AT-2 150+ km (93+ mi) on quadropod 220+ km (137+ mi) on 5 m mast

AT-3 60+ km (37+ mi) on quadropod

FEATURES AND TECHNOLOGIES



Double redundancy:

Two integrated data links to ensure maximum reliability during the mission.



Main telemetry datalink (C2 and video):

130+ km (or 220+ km, depending on the configuration).



MESH technology support You can use a compatible UAV to extend the communication range.



Automatic mast 5 meters To maximize connection range with the drone.



AES-256 encryption Ensures a safe and secure connection with the UAV.



Backup telemetry datalink (C2): 130+ km (or 220+ km, depending on the configuration).



Built-in video camera To visually control the drone during takeoff and landing.



Backup battery to an additional 2 hours of power.

LAUNCH SYSTEMS



BUNGEE LAUNCHER



PNEUMATIC LAUNCHER

GLS-1A

Angle range of the rail relative to the ground: 10-15° **Maximum speed:** 17 m/s (56 ft/s) for UAV up to 40 kg (88 lb) or 20 m/s (66 ft/s) for lighter UAV

Deployment: 15 min Temperature range: -25° to +40 °C. Size: 5,4x2,3x1,6 m (17,7x7,6x5,3 ft) Weight: 60±4 kg (133±9 lb)



PITOT TUBE



Designed to measure static and dynamic air pressures



This device is used as part of onboard navigational equipment fitted in aviation technology. The Pitot Tube can be installed on ultralight aircraft such as: small passenger planes, sports aircraft, gliders, hang gliders, helicopters, etc., and can also be installed on unmanned aerial vehicles.



SET CONTENTS

- Heated Pitot Tube
- Protective cap
- UAV integration connector
- Protective plug for the integration connector
- Spare parts kit
- Transport packaging
- Adjustment and use instructions



Temperature range: -40 °C to +55 °C



Power source: 16-32 V



Maximum speed: up to 200 km/h (124,3 mi/h)

Weight:

160 g (0,35 lb)



Connection: CAN protocol

Dimensional size: 190x19x19 mm (7,5x0,75x0,75 in)



BATTERIES



Universal Rechargeable Battery (URB) is a product designed for use in uninterruptible power supply, reserve lighting, systems of video surveillance, telecom equipment, and more.

URB-220

Size: 75x95x136 mm (2,95x3,54x5,35 in) Weight: 1,8 kg (4 lb)



Size: 75x134x267 mm (2,95x5,27x10,5 in) Weight: 5,5 kg (12,2 lb)





SMART UAV BATTERY WITH OPTIMIZED PLUG & PLAY INSTALLATION



- Effective energy management
- Battery status monitoring
- Overvoltage protection
- Accurate charge determination
- Remote control and diagnostics
- Fast charging
- Environmental compatibility



We started in 2014 with the development of our first PD-1 UAS. Due to the absence of high-quality and accessible components on the market, we had to establish our own production. Over time, we started receiving numerous requests for these components separately from UAS, giving rise to the UAS Components project.

Currently, **UAS Components** operates as an independent division of **LLC Ukrspecsystems**, focusing on delivering high-quality components for your unmanned aerial systems.





uascomponents.com info@uascomponents.com +38 063 358 49 63