

The payload of the "surveillance" version

In its basic configuration, the Surveillance version holds a payload with optical and infrared sensors.

The signals acquired with the current "Surveillance" version are processed with artificial intelligence algorithms capable of recognizing objects of different types such as: people and vehicles, fire starts, naval units and shipwrecks. The software processing video signals also allows simultaneous multiple targets tracking and automatic zoom in.

Georeferenced captured videos can be stored locally within an SD card.

Operating range

60 min

Maximum Speed

100 Km/h

Maximum wind intensity

12 m/s



Via Piedicavallo, 51, 00166 Roma RM

Telefono/FAX : +39 06 61914001 | E-mail: info@eurolinksystems.com

www.belugadrone.com/ www.eurolinksystems.com



BELUGA™

The natural evolution of UAV technology


PRODOTTO ITALIANO



The Beluga development took place within Eurolink Systems' laboratories, which ensures the possibility of high level of customization of the aerial platform by adapting it to the capacitive needs of the customer. The payload of the Beluga can be tailored to the specific mission profile by providing for sensors such as optical and infrared camera, range laser finder, lidar, multispectral and sensors CBRN sensors.

The electric-powered Beluga quadri-rotor falls into the class of MINI UAVs for tactical use and has been built in two different configurations:

✓ **LAST MILE DELIVERY:**

equipped with an FPV camera and a cargo bay for the rapid transportation of light cargo

✓ **SURVEILLANCE:**

for reconnaissance and surveillance equipped with a EO/IR payload

Description

The Beluga can be quickly deployed by 2 operators in less than 5' and provides a radio link operating on 2.4 GHz band capable of ensuring operating ranges up to 10 km by operating with omnidirectional and directive antenna.

- ✓ Information transmission can be protected by 256-bit AES encryption.
- ✓ Alternatively, cellular and satellite network connection is provided.



Navigation system

- ✓ The Beluga's navigation system allows automatic route setting by waypoint during mission planning and setting the limits of the operational volume within which, Beluga flight is allowed.
- ✓ It makes use of selectable multifrequency and multiconstellation GNSS sensors (GPS, Galileo, Glonass, Beidou) with accuracy up to 1.5 m.
- ✓ A Flight Termination Systems (FTS) was implemented on board the Beluga for safety reasons with the objective of interrupting command to the engines.
- ✓ The FTS system has been implemented and is compliant with the MOC standard Light-UAS.2511-01 EASA.



Beluga platform

Dimensions (unfolded)	Diagonal: 1,085 mm; Width: 760 mm Height: 450 mm; Propellers: 22"
Propulsion	4 brushless electric motors
Take Off Weight	Li-ion batteries
Flight altitude	~ 10 kg. depending on payload
Autonomy	4,000 m (ASL)
Operating range	60' - 10 km
Maximum Speed	100 km/h
Temperature range	-20°C to +55°C
Air humidity range	Up to 90 %
Maximum wind intensity	Up to 12 m/s