

THE PAYLOAD WITH A HYBRID CAMERA

Our SongBird solution for the surveillance can be equipped with Nextvision Products which provide a range of camera models and a variety of accessories, including object tracking, geo location, video compression and IP Encapsulation, as well as Video Recording, Retracting and more, covering all your current and future needs.



Zoom	x80 (x40 optical + x2 digital)
Thermal resolution	up to 1280 x 720 pixel
Pitch for	-45° to +135°
Yaw/roll for	360°
Dimensions	D-64mm x H-94mm

Video processing module TRIP5 by NextVision provides EO/IR object tracking, geo location, video compression, IP Streaming, video recording, LTE, and license plate recognition capabilities. The EO/IR object tracking feature allows you to track a subject within the camera's range, ensuring the subject will never leave your view. Geo location captures the position of the camera, its line of sight, and extracts the location of observed objects with unprecedented accuracy.

GYROSTABILIZED MULTI-SENSOR GIMBAL

Songbird users have an option to deploy the UAV with Merio Products designed for tactical range UAVs.



Special surveillance features:

- Geo-tracking
- Geo-localisation
- Inner IMU for stabilisation and artificial horizon computation
- High torque direct drive technology
- Stabilisation <math>< 150 \mu\text{rad}</math>

Daylight camera	X40 (XSony full HD Optical zoom x30) (FOV 63,7° -> 2,3°)
Infrared camera	640x480 pixels Lens 35 mm, digital zoom x4
Option	Laser pointer RS232 Daylight: SDI / HDMI
Communication / Video outputs	Infrared: SDI / analogue, Simultaneous channels stream, Optional Ethernet output

SONGBIRD SURVEILLANCE EDITION



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Germandrones develops innovative, reliable, industrial UAV technology "Made in Germany" for the best possible support of our customers' business cases.

Wingspan [m]	2,98 or 3,12
MTOW [kg]	14,0
Maximum Payload [kg]	4,4
Body Material	Glass- / Carbon fiber composite
Cruise Speed [m/s]	17-32
Max. Flight time [min]	
- camera only	more than 120min
- max. payload	60
- typical	90
Range [km]	110
Altitude [m]	
- Service ceiling	5.000
- at take-off	4.000
Wind Tolerance	
- Start/Landing auto [m/s]	7
- Start/Landing man. [m/s]	11
- Fixed Wing Mode [m/s]	15
Rain Tolerance	moderate rain
Propulsion	4 Tilting electric motors
Safety Features	Return to launch / Position hold / Land immediately / Land at defined places
Flight Controller	PixHawk Cube / PX4 Stack
Ground Control Station	Germandrones, own development

SONGBIRD 150

The Songbird 150 is designed to provide the best user experience under any circumstances.

- Exchangeable payload
- 5-10 min to assemble
- Vertical take-off, fly wherever you want
- Electric power system for long endurance flights
- 120+ min flight time (dep. on payload option)

In the Box



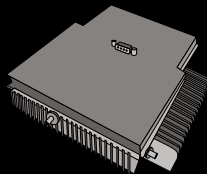
Airframe
Songbird 150



Ground Control
System



Battery kit



IMSI Catcher



Sensor



Rugged case

SONGBIRD SURVEILLANCE EDITION

- Fly under tough circumstances
- Capable to withstand wind up to 15m/s
- Low noise emission
- Video transmission up to 50 km
- With 4G or 5G everywhere in the world
- Tested in high- and low temperature conditions
- Invisible in the sky
- High flight altitude with a high-resolution sensor
- Flexible software to allow quick reactions to the situation Droneintelligence © software
- Resistant against jamming

