UNMANNED SYSTEMS

Cicada

Applications
Handheld

Types
Metal detectors (MD)

Last update
01/01/1970

General description

In demining operations, long-range hybrid UAVs make detection and classification of UXO and landmine-contaminated areas. Additionally, Cicada allows to remotely monitor progress and check QA of the demining mission, and also it is useful post-operation data collection.

Working characteristics

The long-range drone Cicada-M is capable of staying in the air for up to two and a half hours and carries up to two and a half kg of payload when operating. This may be a typical payload like a video or a thermal camera or a specially mounted sensor like a magnetometer or a GPR. The opportunity to use both external and internal devices opens a large spectrum of applications during humanitarian mine action missions.

Power supply data

Battery	Hybrid power system
Low battery alert	1
Low battery alert information	15 % (back up battery)
Rechargeable	1
Operating time	1 hours
Operating time information	Can fly 2.5 hours (due generator power)
Battery charger provided	1

Dimensional data

Length	600 mm
Weight	19 kg
Transport case provided	1
Transport case information	3 boxes
Transport case weight	12 kg
Case dimensions	1m*1m*800sm

Factory support data

Factory support	- Completed technical support - Training including price (on UMT base)
Humidity (limitations)	up to 90%
Water resistant	1
Temperature limitations	- 20 to +40 °C

Price

Reduction for higher quantity	Depending on the quantity of UAVs in one UAS.

Other

Additional equipment	Ground Control Station

Technical data

Maximum speed	55 km/h
Max trop duration (no wind)	150 minutes
Max hovering duration (no wind)	120 minutes
Max flight distance (no wind)	6000 m
Max wind speed resistance	36 km/h
Operating frequency	900 GHz
Flight / trip planning software	1
Live data transmission	1

Other information

UMT - Sophisticated yet user-friendly unmanned aerial solutions consist of long-range hybrid UAV - CIcada and long-endurance tethered drone system - Cobra. These two unique robotic/unmanned platforms provide different capabilities in demining mission activities or humanitarian mine action projects.

Images