



NAUDI

National Association of
Ukrainian Defense Industries



CICONIA

unmanned aerial system

Unmanned aerial system "Ciconia" is autonomous distance-controlled UAV for different tasks of the aerial reconnaissance, patrolling, mapping of the area with the possibility of actual information transfer in the real-time mode.

In this system is realized the conception of automatized control during all flight, which makes the job of an operator much easier and allows focusing attention on the analysis of information that comes from the UAV.

UAV control is carried out through the encrypted digital radio channel, which allows receiving telemetry data during all period of the flight. An operator can trace the location of UAV on the satellite maps, correct the route, operate with a payload and give other commands to UAV. In the case of signal suppression, the UAV is able to continue the autonomy flight, return and make landing in the programmed point.

UAV has the special anti-electronic warfare system which recognizes intentional interference environment (GPS blocking/spoofing) and automatically switches to SINS/AHRS inertial mode.

UAV can take-off in radio silence mode in order to make it impossible to determine the place of takeoff. The

operator can switch on and off video transmission at any time.

UAV has good wind resistance parameters and can be used at 20 m/s wind speed. Flight radius is 50 km (total route distance 100km), endurance time is 2,5 hours on condition of air temperature from +50C to +350C, wind speed 10 m/s.

«DEVIRO flight control center software» makes it easy to plan and simulate mapping mission. Mission planning takes place in a visual mode, the software will warn if exceeded the maximum length of the route. Flight control center provides the tools for quick access to the payload control functions, mission correction, emergency options. During the flight, the operator receives detailed information about the UAV and about the environment.

- Day-night use
- Aerial reconnaissance
- Automation and control of troops
- Police operations
- Border security
- Aerial mapping
- Artillery fire adjusting
- Agitation

TECHNICAL FEATURES



Length / Wingspan / Wing-span VTOL (EFT kit)	1,135 m / 1,98 m / 2,46 m
Take-off weight: basic/EFT/VTOL	6 kg / 7.22 kg / 8.70 kg
Material	composite: kevlar, glass-carbon fiber
Maximal flight altitude	1500 m (limited by software)
Operating temperature	-25°C to +55°C
Wind resistance	20 m/s
Cruise speed	60 – 70 km/h
Power	electric
Endurance:	
- basic modification	2 - 2,5 hours
- with EFT kit	3 - 3,5 hours
- with VTOL module	1 - 1,5 hours
Route length:	
- basic modification	100 km
- with EFT Kit	180 km
- with VTOL Module	100 km
Radio link range	45 km two-way digital telemetry data channel with encryption
Flight control system	autopilot with the full auto and navigation mode

Anti-electronic warfare system	special DEVIRO anti-electronic warfare system which recognizes intentional interference environment (GPS blocking/spoofing) and automatically switches to the inertial mode
Flight plan programming	in a visual mode with online/offline satellite maps
Payload: modular variable	-PLCI Z30 daylight module (gyroscopically stabilized in two axes with changeable 20x optical zoom) -PLCI IR night vision module (thermal vision module, gyroscopically stabilized in two axes with fixed 4x optical zoom) -PLCI TM training payload module for Ciconia UAV with fixed 4x optical zoom camera
Video link	up to 45 km two-way digital channel with encryption for which allows receiving telemetry data and HD video
Take off method	catapult / VTOL
Landing method	belly landing / parachute / VTOL

PAYLOADS



"PLCI TM" training payload module



"PLCI Z30" daylight vision module



"PLCI IR" night vision module



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