CICONIA

UNMANNED AERIAL SYSTEM

SPETS
TECHNO
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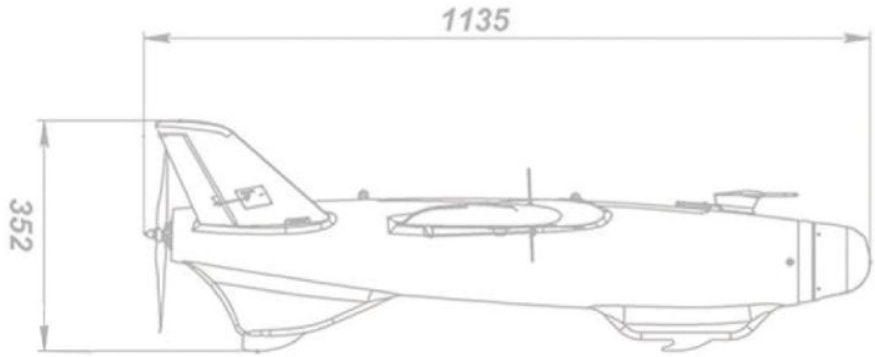
Ukrainian Defence Industry

CICONIA UAV SYSTEM

CICONIA is an autonomous distance-controlled UAVs, designed for various tasks such as aerial reconnaissance, patrolling, area mapping with the possibility of online information transfer and obtaining accurate geographical coordinates in real-time mode

MAIN SPECIFICATIONS



SIZE
1980 mm x 1135 mm x 352 mm

TAKEOFF WEIGHT
5,5 ± 0,3 kg

MATERIAL COMPOSITE
Kevlar, Glass-carbon fiber

MAXIMUM FLIGHT ALTITUDE
1500 m

RANGE OF TEMP
From -20°C to +55°C

WIND RESISTANCE
Up to 20 m/s

CRUISE SPEED
60 – 70 km/h

ROUTE LENGTH
100 km

FLIGHT TIME
2-2,5 h

POWER UNIT
Electric

CONTROL SYSTEM
45 km two-way digital
data channel with encryption

FLIGHT OPERATION SYSTEM
Auto-pilot with the full auto
and navigation mode

ANTI-ELECTRONIC WARFARE SYSTEM
Deviro'S special anti-electronic
warfare system recognizes intentional
interference environments and
overriding of navigation fields

TAKEOFF METHOD
Catapult

PROGRAMMING
Visual mode with
satellite maps

PAYLOAD
Modular variable:
"pS24" / "Z 10*32" /
thermal vision "T25*25"

PROGRAMMING
Visual mode with
satellite maps

LANDING METHOD
Belly landing/parachute

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FEATURES

OPERATION IN PROBLEMATIC RADIO-WAVE CONDITIONS
Special anti-electronic warfare system recognizes intentional interference environments (GPS/Glonass blocking, spoofing) as well as autonomic overriding of navigational fields

AUTONOMOUS FLIGHT
UAV can continue the autonomous flight and complete the task in case of radio channel data exchange termination

OPERATION IN DIFFICULT WEATHER CONDITIONS
The UAV can be utilized in dense cloud conditions and drizzle, in case the time spent in flight does not exceed 20 minutes

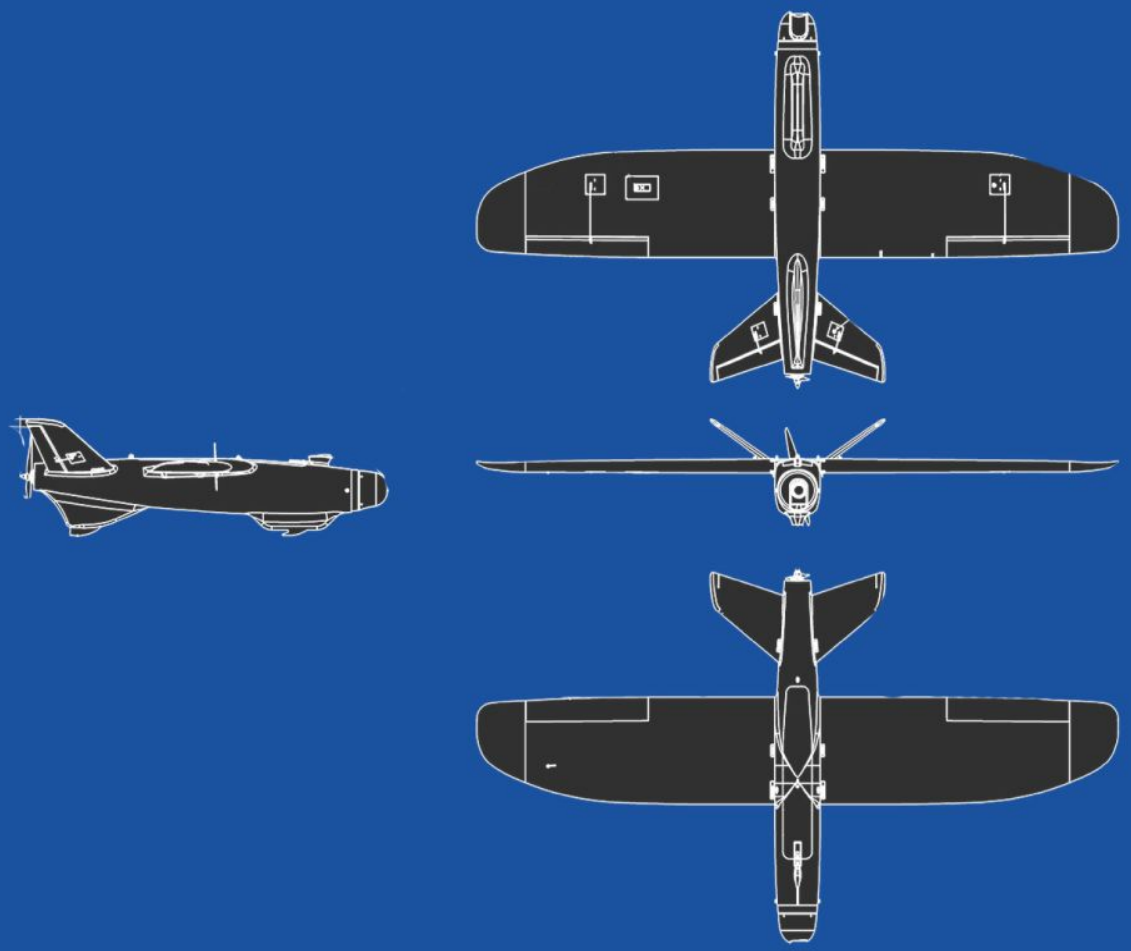
SECURITY IN OPERATION
The operation of the UAV is carried out via an encrypted digital channel, which allows the possibility to receive telemetry data throughout the whole flight

EASINESS OF OPERATION
Operators can track the location of the UAV on satellite maps, adjust routes and provide emergency return commands back to the takeoff point or, if necessary, set another landing point. Great attention was paid to the operator's convenience as per reducing the time it takes to bring the UAV to readiness to complete the task

VARIABLE OPERATION SYSTEM
All complexes include the automated control concept of the UAV throughout the whole flight, which considerably simplifies the operator's job and allows the crew to focus their attention on the analysis of current data inflow, which continuously transfers from the board of the UAV. Along with the automated control system, there is a combined control mode that presumes partial operator flight engagement and the ability to point the UAV to a direction not previously specified. After the operator has finished manual handling of the apparatus, it automatically returns to the route set beforehand

PACKAGE CONTENT
The UAV is supplied in convenient and durable transport cases that meet NATO military standards and accommodate all the components of the complex. They protect it during storage and transportation and eliminate the possibility of damage if dropped from a height not exceeding 2 meters. The delivery set can be changed under the client's wishes

AREA OF APPLICATION



AERIAL RECONNAISSANCE

Ciconia can be used for aerial reconnaissance due to a continuous flight time of up to 2 hours at altitudes of up to one and a half kilometer. Ciconia is an effective means of reconnaissance. Video capturing is carried out both in online and recording modes. It is also possible to operate the UAV in full radio silence

ADJUSTMENT OF ARTILLERY FIRE

Artillery fire effectiveness is ensured by timeliness and accuracy of fire attacks, based on complete and accurate data obtained from the UAV regarding the position, size, and nature of targets in real-time mode

BORDER SURVEILLANCE

Our UAVs possess excellent tactical and technical characteristics that allow fortified control of state borders and private territories even in most remote and hard-to-reach grounds

AUTOMATION AND TROOP CONTROL

All information from the UAV comes in online mode to the ground control station and to the main control center, which allows coordinating the actions of ground forces quickly

MAPPING

Additional equipment allows obtaining high-quality images with references to geographic coordinates. This permits the creation of high-precision topographic maps

AGITATION

The UAV is used for delivering of certain campaign materials over designated area, or other goods, with no total weight not exceeding 1 kg (2.2 lb)

PAYLOAD: MODULAR VARIABLE

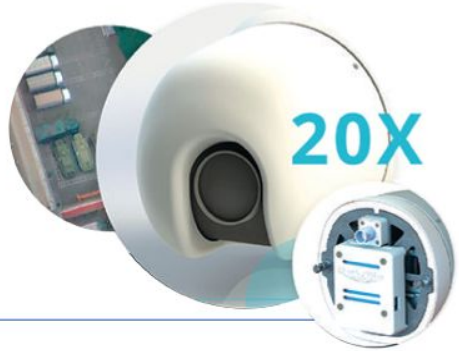
Payloads for the UAV consist of a quickly detachable modular system with a single unified connection interface, which allows the installation of all necessary modules according to the needs of operator.
Double-axes payload modules are gyro-stabilized and are remotely controlled in directions of right to left and top to bottom

PILOT TRAINING
Training center for unmanned aviation complex operators.
The training plan is designed as a fourteen-day program and includes the basics of aerodynamics, UAV design and software set, practical pilotage, post-flight procedures and maintenance, emergency and non-standard situations, analysis of data obtained from UAV. 2 to 3 people are required to operate the flight complex

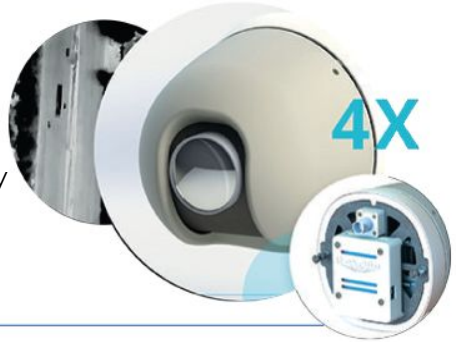
PAYLOAD: MODULAR VARIABLE

PLCI P24
high-resolution photo module (gyroscopically stabilized in two axes with fixed optical zoom)

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)



CONTROL SYSTEM AND PACKAGING

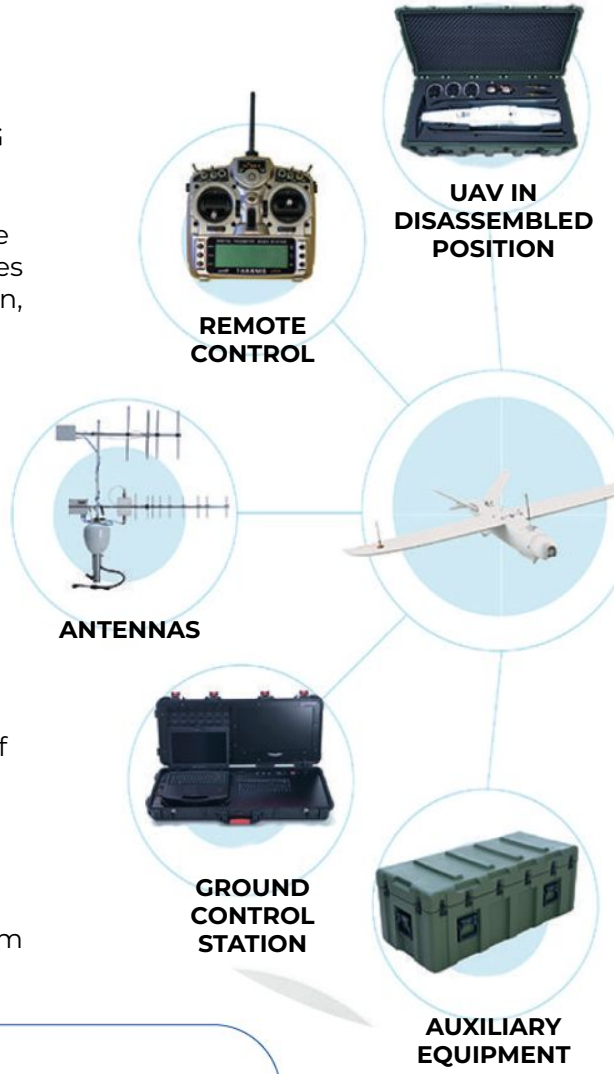
The UAV is supplied in light and impact-resistant cases that contain all the necessary complex components. The cases protect the complex during transportation, eliminate damage in the event of drops from up to 2 meters, as well as protects against dust and water penetration

The complex small dimensions and low weight makes it possible to transport it in a van

The control system consists of a ground control station, antennas, and a manual remote control unit

UAV is controlled via an encrypted digital radio channel. This allows the reception of video and telemetry data throughout the entire flight of up to 45 km

UAV control is fully automated.
This allows the operator to focus on the analysis of online information coming from the UAV



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EST. 1998

SPETSTECHNOEXPORT

A major Ukrainian state-owned foreign trade enterprise, which specializes in export and import of military and dual-use products and services globally, as well as on promoting innovations, transfer of technology and military-technical cooperation

OVER

20 years of experience

30 partner countries

170 state and private producers

30 research centers and design bureaus

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Ukrainian Defence Industry

OUR EXPERTISE

Aircraft engineering and maintenance

UAV and Anti-UAV defense systems

Military and special purpose armored vehicles

Small arms and light weapons

Precision-guided weapons

Radars and air defense

Maritime systems

R&D services

STATE TRADE FOREIGN ENTERPRISE
SPETSTECHNOEXPORT

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