

UAV A2R



**CBRN
PROTECTION
TCT**



Aerial and radiological reconnaissance



Ground control station



UAV A2R

Solution

- Aerial and radiological reconnaissance
- Fully automatic flight in search mode
- Optional thermal imager for night flights
- Cryptographic encryption of control channel
- No registration for the flight
- No software locks; No GSM

Advantages

- Search, localization and identification of radioactive sources
- Contaminated area mapping
- Weather monitoring and contamination spread prediction (wind direction and speed)
- Monitoring of nuclear power plants territories
- Monitoring of emergency situation

Website:

www.cbrnprotectiontct.org

Email:

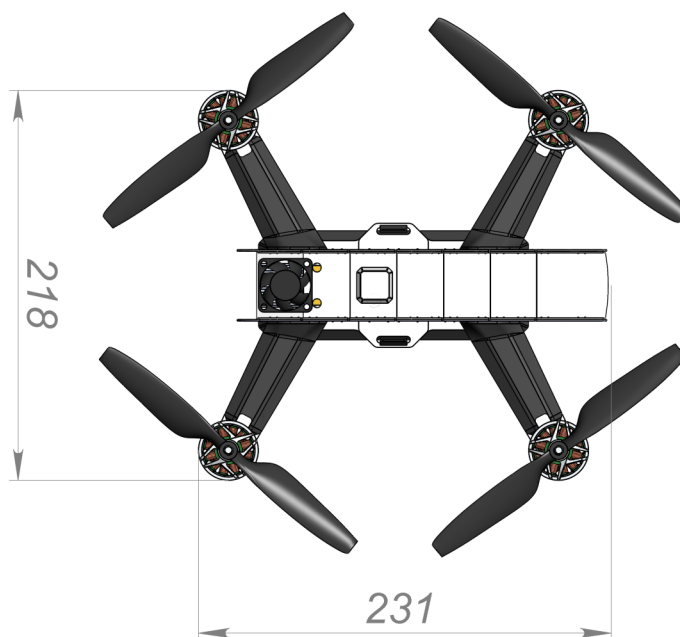
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UAV A2R

specifications



UAV A2R

Maximum altitude	3000 m
Tactical range	3 km
Maximum range	5 km
Maximum flight time	55 min
Maximum wind speed near the ground	15 m/s
Maximum payload weight	400 gr
Operating temperature	- 15 / + 60 °C
Props	7 inch
Frame	Carbon / Plastic

Camera

Operating system	Integrated OS Linux
Video	720p (1280x720) 30 fps
Maximum resolution	3 Mpix
Stabilization	gyro-stabilized single axis
Matrix	1/2.9" Progressive CMOS F23

Ground control station (TIS Operator)

Display	5 inch
Protection	IP 64
Military standard	MIL STD 810G
Working time	12 h
Operating temperature	- 35 / + 60 °C

Radiological detectors

Detector	CsI(Tl)
Sensitivity, gamma radiation:	^{137}Cs 100 s ⁻¹ /(μSv/h) ^{241}Am 100 s ⁻¹ /(μSv/h)
Energy range	0.06 – 3.0 MeV
Dose equivalent rate (DER) measurement range	0.1 μSv/h – 100 μSv/h
DER measurement accuracy	±(20+0.002/H)%, where H = DER, μSv/h
Response time:	0.25 s
Operating temperature	- 30 / + 50 °C
Detector	G-M
Energy range	0.06 – 3.0 MeV
Dose equivalent rate (DER) measurement range	0.1 μSv/h – 10 Sv/h
DER measurement accuracy	±(20+0.002/H)%, where H = DER, μSv/h
Operating temperature	- 30 / + 60 °C

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