

# ALPHAPEC 9200 CBRN Reconnaissance

## Robot

### Product overview

ALPHAPEC 9200 CBRN Reconnaissance Robot can be used for nuclear and biochemical pollution environment reconnaissance and rescue, nuclear and biochemical pollution material sampling, nuclear and biochemical pollution environment cleaning.



### Technical indicators

Parameter name	Performance parameter
Length*Width*Height	≤ 1850mm×1000mm×1000mm
Weight	≤ 340kg
Load capacity	≥ 200kg
Robot motion performance	1. Maximum driving speed: ≥ 20km/h 2. Maximum climbing gradient: ≥ 38° 3. Maximum wading depth: ≥ 300mm 4. Maximum obstacle height: ≥ 300mm 5. Maximum width of the trench: ≥ 650mm 6. Maximum inclination: ≥ 25°
Working parameter	1. Working temperature: -40°C ~ + 50°C 2. Storage temperature: -40°C ~ + 60°C 3. Maximum relative humidity: 95%RH (+30°C) 4. Maximum adaptable altitude: ≥ 4500m
Radiation resistance property	≥ 100Gy/h (continuous irradiation for 10h)
Wireless transmission range	≥ 3km (general vision), wired transmission: ≥ 1.5km
Sampling equipment	1. Gas: 3 air bags with a volume of 1L 2. Liquid: 3 liquid bags with a volume of 200mL 3. Solids: 3 solid samplers for sampling 300g
Decontamination parameters	Volume: 100L, area ≥ 50 square meters
Gamma rays	Measuring range: 0.1 Gy/h~10Gy/h
Nuclide	Measuring range: 0.01uSv/h~10mSv/h      Response time: ≤ 30s
Neutron	Measuring range: 1uSv/h~1Sv/h (Am-Be)      Sensitivity: 0.8cps/uSv/h (Am-Be)
Gas detection	It can detect sarin, Viex, mustard gas, Lewisite, hydrocyanic acid, cyanogen chloride, ammonia, chlorine, among which sarin 0.5mg/m <sup>3</sup> , ammonia 10mg/m <sup>3</sup> , response time 3s-20s



- I. High mobility, suitable for multi-terrain, multi-scene operation
- II. The camera has irradiation resistance and can operate in high radiation environment;
- III. It can realize multi-position and multi-type material sampling;

### Application area

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