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Protezione e monitoraggio delle aree limitrofe all'aeroporto:
criticità e soluzioni innovative

Airport Protection System Integrator Aircraft and Drone Compatibility



a cura di Ugo Vittori – Accountable Manager di Eagle Sky Light



AQUILA 100 – PERCHE' ...

PARAMETRO	AQUILA 100	DRONI IN COMMERCIO
AUTONOMIA	ILLIMITATA	15/25 MAX
METEO/CONDIZIONI AVVERSE	SI	NO
VOLO NOTTURNO	SI	NO
SICUREZZA	SI	RELATIVA VEDI CASISTICHE
AREA DI BUFFER	DINAMICA	STATICA
VERSATILITA'	INTERCAMBIABILITA' PAYLOAD	LIMITATA
SICUREZZA DATI	SI	NO
APPLICAZIONI	INFINITE	LIMITATE
INTERFERENZE ELETTROSTATICHE / ELETTROMAGNETICHE	NO	NO



AQUILA 100 – CONTROLLO E SICUREZZA AEROPORTUALE



CONTROLLO PERIMETRO AEROPORTUALE



ISPEZIONE PISTA / TORRI FARO / RICERCA FOD / WILD LIFE



CONTROLLO AEREI (DECOLLO E ATTERRAGGIO)



COORDINAMENTO MEZZI *HANDLING* – (SCALE-MEZZI-CARRELLI-VALIGIE ETC..)



AVVISTAMENTO DRONI AREA AEROPORTUALE (SISTEMA "AEROSCOPE")





Aeroscope Mobile

- Individuazione sistema
- Tracciamento dati
- Riconoscimento drone

Aeroscope Mobile

Monitoraggio del sistema



il drone individuato



HOMELAND SECURITY

AIRPORT SECURITY

PORT SECURITY

BATS' Very Short Range Air Defense (VSHORAD) Radar is the fifth generation of 3D Tactical Air Defense Radars.

The AD26 VSHORAD radar is a lightweight transportable, X-band, solid-state electronically scanned Pulse-Doppler radar.

This cost-effective radar delivers early warning and target data for supporting surface-to-air missile weapon systems or jammers.

The radar employs multi-beam elevation coverage by applying Digital Beam Forming (DBF) and 360° azimuth coverage by antenna rotation.

The radar detects a wide variety of low RCS targets such as low flying fighter aircraft, low velocity ultra-lights and UAV/drones. The radar provides accurate target measurements of velocity, range, azimuth and elevation angles.

The AD26 VSHORAD can be deployed as a local Air Defense system providing early warning and target track.

Features

- Compact rotating antenna
- Fast and easy deployment
- Wide elevation coverage
- Elevation multi-beam by Digital Phased Array Technology
- Automatic detection of airborne targets
- Track While Scan of more than 100 targets
- 3D radar with azimuth coverage of 360°
- Operated locally or by remote Command and Control system
- Stand-alone operation or integrated with additional Air-defense radars
- Integrated with IFF (option)
- Ethernet LAN Communication (by wire or wireless)
- High reliability - full solid-state design
- Extensive ECCM capabilities
- Digital technologies :
 - Digital Beam Forming (DBF)
 - Digital Pulse Compression
 - Digital Receivers
- Embedded GPS
- Extensive BIT
- Low power consumption

Applications

- Search radar to support surface-to-air weapon systems or jammers
- Local Air Defense radar system
- Gap filler to complement main Air Defense radar system
- Border air space protection
- Sensitive site air space protection
- Drone guard

Installation

- Fix on tower
- Transportable on tripod
- On a vehicle or on a shelter

Specifications

- Instrumental detection range : 25 km
- Detection range (Fighter Aircraft) : 15 km
- Detection range :
 - RCS = 0,01 m² (micro-drone) : > 3 km
 - RCS = 0,05 m² (mini-drone) : > 4,7 km
 - RCS = 0,5 m² (small aerial target) : > 8,4 km
- Detected target velocity : 2-300m/sec
- Update rate : 2 sec (30RPM)
- Elevation coverage : 60°
- Azimuth coverage : 360°

- No. of tracked targets : 100 by TWS
- Frequency : X-band
- Weight : +/- 90 kg (antenna+pedestal)
- Dimensions :
 - Antenna : 200(W) x 1110(H) x 750(D) mm
 - Pedestal : 364(W) x 223(H) x 220(D) mm
- Power consumption : 400W/28 VDC
- Operation temperature : -30°C - + 55°C

Very Short Range Air Defense Radar

AD26





GRAZIE PER L'ATTENZIONE !