



AUTOMATIC DRONE DETECTION SYSTEMS

CADDS

CAMERA ARRAY - DRONE DETECTION SYSTEM



The **Camera Array - Drone Detection System**

is the first system using an Array-Camera in combination with a Gimbal cam and a powerful image recognition platform. The image recognition is performed using powerful **Artificial Intelligence, internally trained to detect any kind of copter- drones.**

AUTOMATIC DRONE DETECTION SYSTEMS

FDSS

FLIR BASED - DRONE DETECTION SYSTEM



The **FLIR based - Drone Detection System** is a stand-alone video processing / FLIR / gimbal camera remote control - unit.

The artificial intelligence incorporated in this unit is capable to automaticall recognize and interpret objects on the provided video feed.

The user interface allows the operator to define an "AUTO-SEARCH" function in order to search for: Drones, Persons, Vehicles...

CADDs Benefits:

- Cost-effective and simple design
- Simple to use without training
- Passive sensing system
- Recognition is independent from Drone's RF signal
- Simple scalable to cover larger drone protection sites
- Interconnectable with other systems



CADDs - BASIC:

Preliminary Performance Data			
Drone diameter		Identification Distance	
30 cm	12"	500 m	0,310 miles
60 cm	24"	1000 m	0,620 miles
90 cm	35"	1500 m	0,930 miles
120 cm	47"	2000 m	1,240 miles
150 cm	59"	2500 m	1,553 miles

CADDs - LONG RANGE

Preliminary Performance Data			
Drone diameter		Identification Distance	
30 cm	12"	750 m	0,470 miles
60 cm	24"	1500 m	0,930 miles
90 cm	35"	2250 m	1,400 miles
120 cm	47"	3000 m	1,864 miles
150 cm	59"	3750 m	2,330 miles

FDDS Benefits

- Works with all common gimbal cameras (e.G. L3 Wescam, FLIR, Trakka...)
- Plug-and-Play style unit
- Ruggedized and cost-effective
- Intuitive user interface - Touchscreen optimized
- Supplied as installation kit with EASA installation approval

Technical Data:

- Mass: 3,2kg
- Voltage: 9-32 VDC
- Power consumption: max 2 Amps @ 28 VDC

Function:

- Step1: User selects objects of interest (e.g. Drones)
- Step2: User defines search area and selects "START"
- Step3: Camera searches the area automatically (steered by the FDDS)
- Step3: Identified objects are shown on the map and on the objects list.



Calculated minimum performance					
Drone Diameter		15" class FLIR		20" class FLIR	
[cm]	[inch]	[meter]	[miles]	[meter]	[miles]
30	12	1200	0,75	1800	1,12
60	24	2400	1,49	3600	2,24
90	35	3600	2,24	5400	3,35
120	47	4800	2,98	7200	4,47
150	59	6000	3,73	9000	5,59





Central European Aircraft Design

