

DRONE DETECTOR DTS-CaDe



RF information

Parameter	Value
Wifi monitoring frequencies	2.4 GHz & 5 GHz
RF frequency range	100 MHz - 8 GHz
Detection range	2-4 km

Antennas



GENERAL DESCRIPTION

This portable, single-user drone detection system conveniently fits in a MOLLE pouch for easy carrying. Equipped with a wide detection range, the **DTS-CaDe** utilizes advanced AI to identify and locate drone and controller signals, keeping you informed of potential threats.



FEATURES

- Easy to use
- Portable, robust and durable housing
- Graphical and headless UI
- Modular omnidirectional antenna
- Internal directional antennas
- High input gain (20dBm+)



APPLICATIONS

- Drone detection
- Spectrogram visualisation
- RF Signal analysis
- Drone/remote positioning
- RF signal positioning

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Parameter	Value
Internal directional antenna	2.2 – 2.7 GHz & 5.1 – 5.9 GHz
External omnidirectional antenna	433 MHz, 900 MHz, 1.1-1.4 GHz, 2.2-2.7 GHz, and 5.1-5.9 GHz

Power parameters

Parameter	Value
Battery life	12 h
Battery charger	Type-C fast charging (60W)
Power consumption	5 W
Charging time	1.5h

Physical specification

Parameter	Value
Dimensions (W×D×H)	90×45×140 mm
Weight	660 g
Operating temperature	-25...+40 °C
Environment resistance	IP67

Miscellaneous

Parameter	Value
Connection type	Type-C
Notification	LED, vibration and headphones
Attachment method	MOLLE
Country of origin	Estonia

Attenuators

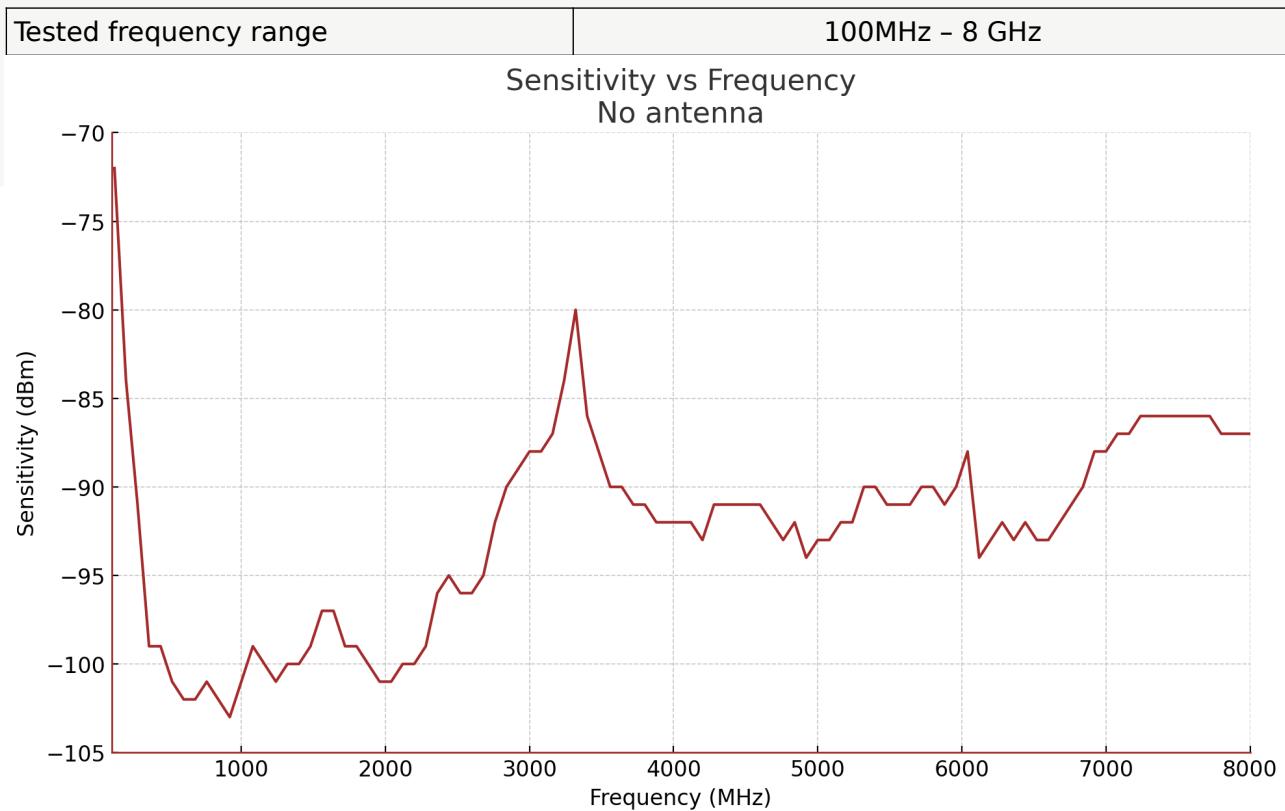
ATTENUATOR DISCRIPTION

Attenuator values are configurable:
 0-18 Internal (0, 6, 12, 18)
 0-18 Antenna port (0, 6, 12, 18)
 Attenuator values should be adjusted according to the antenna type in use to prevent front-end saturation or loss of sensitivity under strong signal conditions.

Detection sensitivity at antenna port.

Parameter	Value
Signal used	Analog FPV
Attenuator value (dBm)	0
Antenna gain (dBm)	0

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* Hardware supports operation up to 8 GHz

Signal library



SIGNAL LIBRARY

The system is capable of detecting any signal within its operating frequency range of **400 MHz to 6 GHz** (extendable to **100 MHz to 8 GHz** with an alternative antenna and software configuration).

To add a signal to the AI model library, a recording must be provided to Rantelon—preferably one captured directly using the device, or alternatively, an IQ sample. The submitted signal will be processed and integrated into the detection model.

Library

Protocol	Model/Version	Protocol	Model/Version
Autel Skylink	All (V0-V4)	Parrot	All WiFi
DJI Ocusync + DJI Lightbridge	All (V1-V4)		360-L-Flight software, 360-

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			MFlight software, XBM-FPV software,
Analog Video	All	Snaptain	All
Yuneec	All	Skydio	All
Hubsan	All	Skydroid	All
Graupner	All	Holy Stone	HS700E
Futaba FASST	All	PowerEye	All
Spektrum	All	3DRobotics/Deerc	All
Turnigy	All	Potensic	All
Walksnail	All	HDZero	All
CRSF Modules (ELRS/TBS)	All	Propel/XBM	All