



# T.RADAR™ PRO

T.Radar Pro is a state-of-the-art software-defined all-digital 4D AESA pulse-Doppler radar. The foldable and lightweight design packs powerful performance into a 15 kg check-in luggage. T.Radar Pro can be transported, installed, and operated by a single operator.

The pursuit of cost-effectiveness has made it possible to deploy a large number of radars to cover a wide surveillance area within a reasonable budget.

## MAIN ADVANTAGES

**01**

T.Radar™ Pro's lightweight, small size, and flexible deployment enable swift mobility for quick reactions. It requires only one operator to handle transportation, installation, and operation.

**03**

Track kinematic function can distinguish between multirotor drones and birds.

**05**

One T.Radar™ Pro can be simultaneously accessed by more than 10 users for drone

**07**

Built in self-test for long term data quality assurance.

**02**

Superior performance against low-signature targets (RCS, Velocity, Altitude) in urban environments.

**04**

Remotely controlled by a wireless tablet. Quick start with an intuitive operation interface.

**06**

SWaP-C superiority, unprecedented affordability for mass deployment.

**08**

Upgrade radar performance and features through OTA updates.





## KEY FEATURES

### 01

Open architecture for image recognition system, Air Traffic Management system, UAS Traffic Management system, and soft-kill / hard-kill instruments integration.

### 02

Capable of tracking low velocity, low altitude, 0.01 m2 - RCS drones in a complex urban environment.

### 03

All-digital Active Electronically Scanned Array (AESA) antenna with GaN amplifiers.

### 04

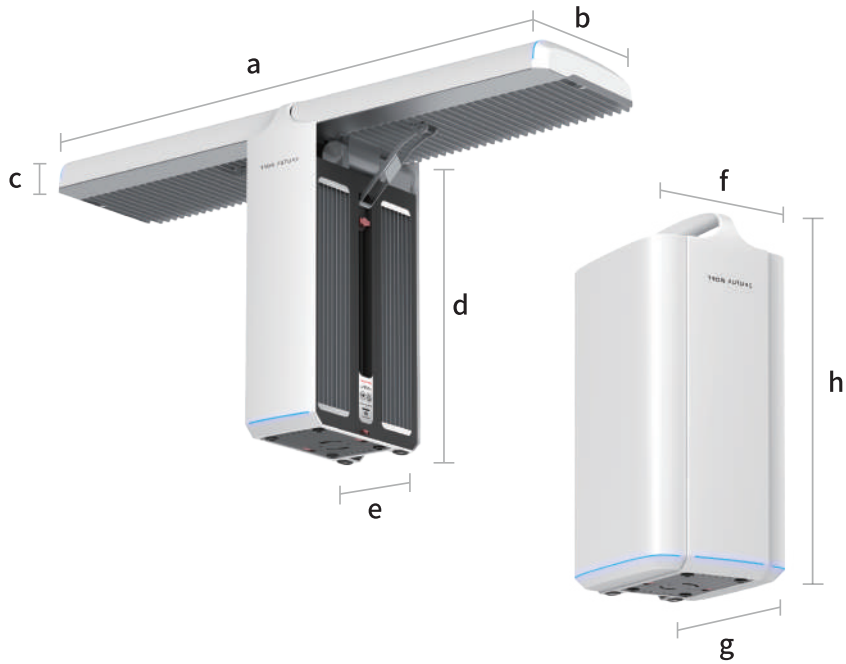
Self-defined surveillance area, intrusion warning, and threat ranking.

### 05

Element-level digital adaptive beamforming. multibeam scanning.

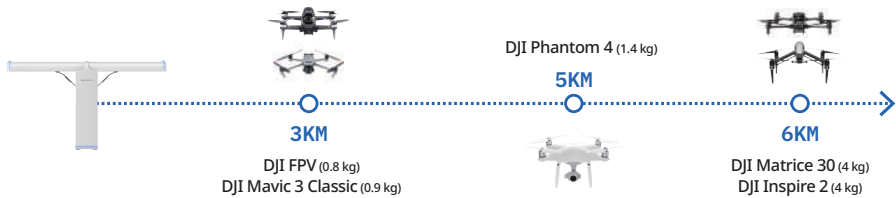
### 06

All-digital radar signal processing.



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Tracking Range (not maximum)



## SPECIFICATIONS

Array Structure	4D Fully-Digital Beamforming AESA
Scanning Mode*	Track-While-Scan (Default) and Spotlight (Option)
Scanning Type	Horizontally-narrow Scanning with Vertically-wide Fan Beam
Data Acquisition	Pulse-Doppler
Operating Frequency	S-Band, 2.9-3.1 GHz
Signal Radar Azimuth Coverage	120°
Signal Radar Elevation Coverage	-30° ~ +60°
Max. Detection Range	3 km for Min RCS 0.006 m <sup>2</sup> 5 km for Min RCS 0.01 m <sup>2</sup> 6 km for Min RCS 0.1 m <sup>2</sup>
Tracking Update Rate*	1 Hz
Max. Target Speed*	30 m/s
Range Resolution*	10 m
Velocity Resolution	1 m/s
Azimuth Tracking Accuracy	< 0.8°
Elevation Tracking Accuracy	< 1°
Max. Number of Simultaneous Target Tracks	300
Multi-Radar Multi-Device Joint Operation	Multi-Target Data Fusion in T.Meta
Operating Temperature	-32°C ~ 49°C (Ambient), < 85°C (Radar)
Environmental Testing	MIL-STD-810H
AESA Weight (without pedestal)	15.5 kg
Dimensions a x b x c x d x e (cm)	102.6 x 27.2 x 6.3 x 50 x 14.4
Dimensions f x g x h (cm)	25.7 x 29 x 57
Input Power	100 - 240 VAC
Max. Power Consumption	250 W
IP Rating*	IP66

Items marked with an (\*) in the specifications are customizable, but additional costs may apply.