

DRT DRONE

DRT_Q

Product Proposal



Key Features



01 **FPV Camera**

02 **Video Link Encryption**

03 **PX4-based FC**

04 **Up to 20 min Flight**

05 **AR Goggles**

06 **Precision Position Control**

07 **Optical Flow Sensor**

08 **Fully Modular**

DRT_Q

A compact reconnaissance drone capable of precise hovering and flight, indoors and outdoors.

AR goggles FPV, a fully modular design, and encrypted video transmission deliver complete security.

Product Features

- 01 FPV flight with AR glasses
- 02 Precise hovering and flight capability indoors and outdoors
- 03 Fully modular design for easy maintenance
- 04 Complete video signal security with a dedicated encryption key
- 05 Dedicated application support
- 06 Easy to fly for anyone



AR GOGGLES FPV

AR Goggles

Real-time flight view beyond the glasses

The AR glasses connect to the FPV camera in real time, while the OSD (on-screen display) delivers position, vehicle status, heading, and more.

Unlike conventional FPV goggles, you can check your surroundings at any time without taking the glasses off.

Dual-band	5.8GHz / 2.4GHz support
1080p@90fps	720p@120fps high-definition video
OSD Info	Real-time position, vehicle status and heading



ZERO BACKDOOR

Complete video security on a transparent open-source base

From flight control (PX4) to video transmission (OpenIPC), the entire stack is open-source based. DRT verifies and builds the full source code in-house and adds its own modules on top.

Because every code path is fully understood, backdoors and data leaks are eliminated at the source.

Full Open-Source Stack	PX4 flight control · OpenIPC/WFB-NG video link, verified at source-code level across every layer
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WFB-NG Encrypted Link	libsodium-based ChaCha20-Poly1305 encryption and authentication; dedicated 1:1 key pairing eliminates hijacking
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Military & Government Ready	Meets the communication security requirements of defense and public-sector environments
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OSD CUSTOMIZATION

Tailored to the field, freely

DRT's own technology lets every OSD element be customized to field requirements. Settings can be changed instantly in flight with the transmitter alone — no extra equipment.

MGRS Grid Display	Shows MGRS (Military Grid Reference System) coordinates on the OSD in real time alongside GPS — ready for military operations.
In-Flight Configuration	Change channels, video quality, OSD layout and more mid-flight, using only the transmitter.
Unlimited Customization	Coordinates, altitude, battery, heading, speed — every OSD element can be freely adapted to your mission.



MULTI-SENSOR FUSION

Precision Position Control

Multi-sensor fusion system

Fly anywhere with exceptional precision

By fusing data from the optical flow sensor and high-performance GNSS, the drone delivers highly stable and reliable positioning in any environment, indoors or out.

The result: anyone can fly it with surprising ease.

Optical Flow

TOF sensor (effective altitude range 6 m)

M9N GNSS

GPS + Galileo + BeiDou triple constellation

Accuracy

2 cm (<2 m) / 1.5% (>2 m) @ 90% reflectivity



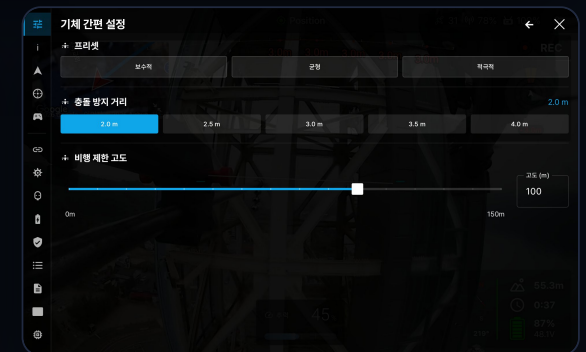
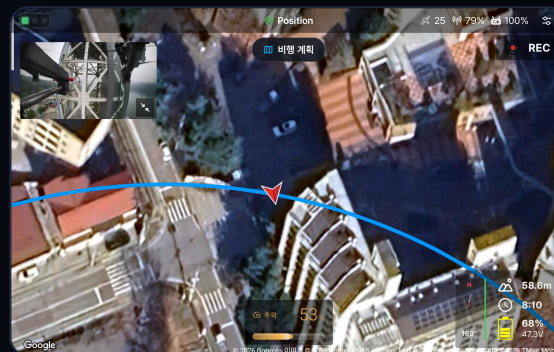
DEDICATED APPLICATION

Dedicated Application

Just a smartphone — anytime, anywhere

Control everything through the dedicated application — multilingual support, flight data, maps, and every feature you can imagine.

No special equipment needed: with just a smartphone you can manage vehicle settings, monitor flight data, and use integrated maps. Multilingual support makes it ready for global operations.



Specifications

Model	DRT Q
Weight	298 g (excluding battery)
Dimensions (L×W×H)	210 mm × 215 mm × 100 mm (with propeller guards)
Diagonal Length	170 mm (260 mm with propeller guards)
Max Ascent Speed	7 m/s
Max Flight Speed	Approx. 20 m/s (72 km/h, GPS mode) Approx. 28 m/s (100 km/h, manual mode)
Max Flight Time	20 minutes
Max Flight Distance	3 km
GNSS	M9N 5883 (GPS + Galileo + BeiDou)
Sensing System	Optical flow sensor – TOF (effective altitude range 6 m) / 2 cm (<2 m @ 90% reflectivity) / 1.5% (>2 m @ 90% reflectivity)
Video System	OpenIPC platform – dual-band 5.8 / 2.4 GHz / 1080p @ 90fps, 720p @ 120fps
Video Security	1:1 secure video link with a dedicated encryption key
Battery	15.2 V / 3400 mAh / 4.35 LiHV
Battery Weight	235 g

Thank you

WEB drttdrone.com

MAIL drt@drttdrone.com