DRT DRONE

DRT_T

Product Proposal



01 · KEY FEATURES

Key Features



01

Video & data link encryption

With the encrypted controller, control, telemetry and video are all encrypted

02

4K + thermal dual camera

A 3-axis gimbal carries a 4K visible and a 256×192 thermal camera together

03

AI detection and tracking

Detects people and vehicles; tap a detection box to track

04

Payload drop

A light item (around 300–500 g) hung on a pin is dropped at the target point

05

Waypoint flight

High-precision GNSS flies the aircraft along waypoints automatically

06

Up to 30 minutes of flight

Up to 30 min flight time · 5 km flight distance · In-house firmware based on PX4

DRT_T

A multi-mission drone that can encrypt both video and control signals

With the dedicated encrypted controller, the data link and video stream between aircraft and controller are both encrypted. DRT T carries a 3-axis gimbal dual camera and a light payload drop unit. With DRT's own DRTView software and high-precision GNSS, anyone can fly it, and it flies waypoints on its own.



Product Highlights

01 Data link and video encryption with the dedicated encrypted controller

02 3-axis gimbal 4K + thermal dual camera with AI detection and tracking of people and vehicles

03 Pin-release payload drop for light items (around 300–500 g)

04 DRTView ground control software developed by DRT

05 Waypoint (automatic route) flight with high-precision GNSS

06 Easy for anyone to fly, up to 30 minutes in the air

ENCRYPTED LINK

Control signals and video. All of it encrypted.

With the dedicated encrypted controller, the control and telemetry data link and the video stream between the aircraft and the controller are both encrypted, designed to stop hijacking and eavesdropping.

Encrypted data link	The data link carrying control signals and aircraft telemetry is encrypted.
Encrypted video	Live video is transmitted with encryption in the 5.8 GHz band.
Dedicated encryption module	The encrypted controller carries the data link and video encryption modules. A standard Android controller setup is not encrypted.





DUAL CAMERA · 3-AXIS GIMBAL

4K by day, thermal by night. One camera.

A 110 g 3-axis gimbal carries a 4K visible camera and a 256×192 thermal camera together. AI detects and tracks people and vehicles; press the DRTView screen to point the camera in that direction and switch between the visible and thermal views.

3-axis stabilization	±0.01° precision · pitch –110° to +120° · yaw ±140° · weight 110 g
4K visible	1/2.8" CMOS · 3840×2160 · f/1.0 · 8× digital zoom · AI-ISP full-color night imaging · AI-HDR
256×192 thermal	Uncooled VOx microbolometer · 8–14 µm · NETD <50 mK @25°C · detection range (Johnson criteria) approx. 417 m for a person, approx. 1,278 m for a small vehicle
AI detection	Multi-object detection of people and vehicles, tap a detection box to track · RTSP H.264/H.265 4K 30 fps stream, 1080p 30 fps recording (microSD up to 256 GB)

PAYLOAD DROP

Hang it, fly it, drop it.

An item is hung on the drop unit's pin and released at the target point by opening the pin — a simple mechanism, for light items of around 300–500 g only.

Pin release	Hang the item on the pin, then open the pin at the target point to drop it.
Around 300–500 g	For light items only.
Drop point check	High-precision GNSS position hold and the camera view help confirm the drop point.



WAYPOINT FLIGHT

Hands off the sticks, straight to the target.

Plan the route in DRTView and the aircraft flies where you want it without you touching the controller. High-precision GNSS keeps the error margin minimal on waypoint flights.

Flight planning

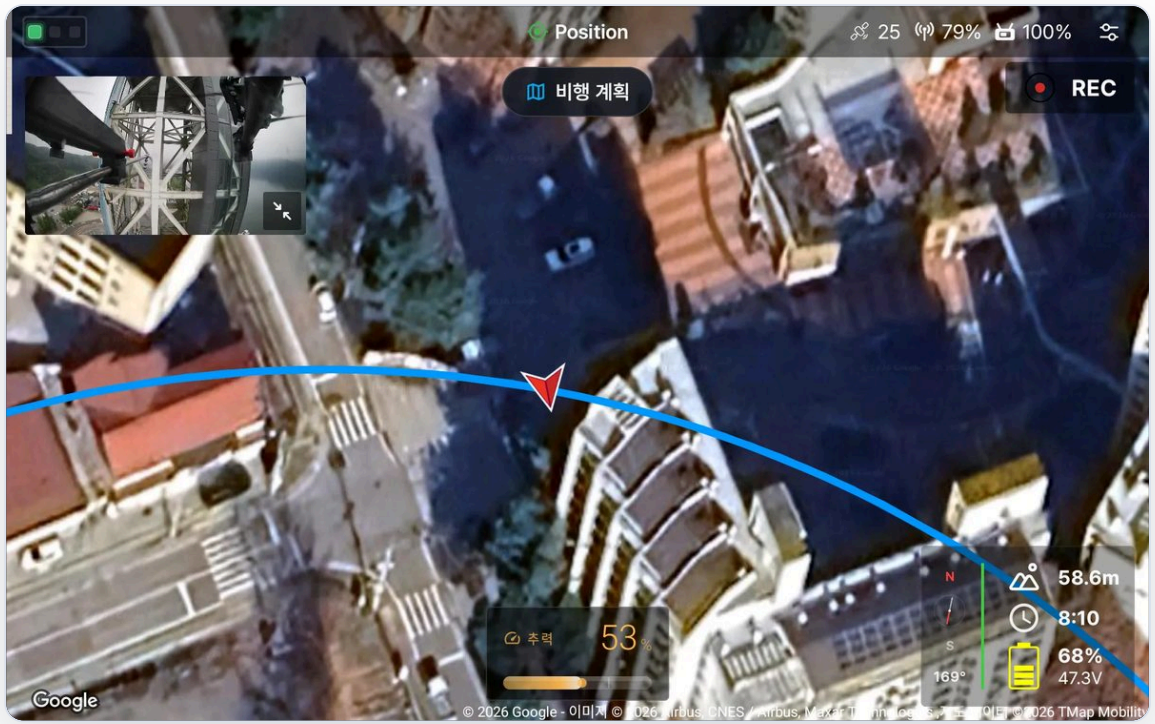
Place waypoints on the DRTView map to build the route.

High-precision GNSS

GPS + Galileo + BeiDou + GLONASS multi-constellation keeps the error margin minimal.

Flight track

See the aircraft position and the track it has flown on the map in real time.



DRTView · Map screen (flight plan · flight track)

CONTROLLER OPTIONS

Choose the controller you need, DRTView runs on both.

There are two controller options. For full encryption, choose the Windows-based all-in-one controller with data link and video encryption modules; otherwise use a standard Android controller. The ground control software, DRTView, runs on both.

Option 1 · Encrypted controller	Windows-based all-in-one with data link and video encryption modules. Control, telemetry and video are all encrypted.
Option 2 · Standard Android controller	No encryption.
DRTView on both	Whichever controller you choose, aircraft control, waypoint flight, aircraft setup and live video all run in DRTView.



Option 1 · Encrypted controller (running DRTView)

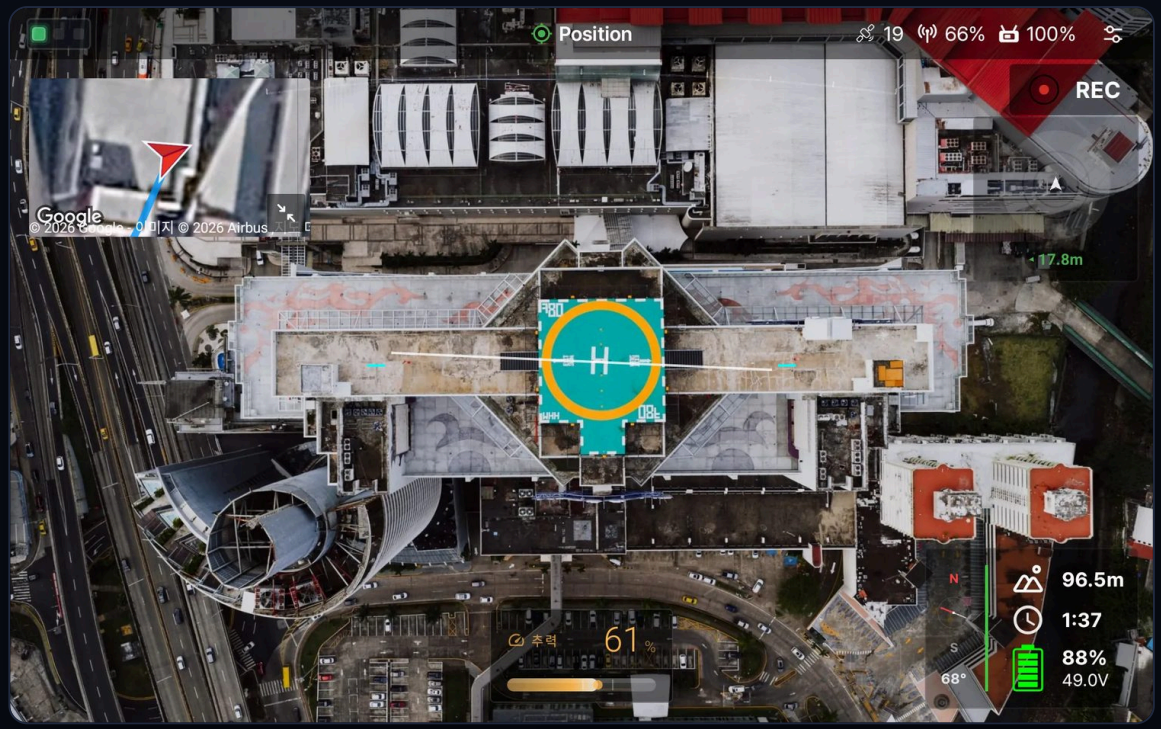
DEDICATED APPLICATION

Flight data, map and setup in one app: DRTView.

Ground control software developed by DRT

Flight information over the live video, flight track and flight planning (waypoints) on the map, and quick aircraft setup, all in one app.

Available in Korean, English and Japanese, with the same screens on both the encrypted controller and a standard Android controller.







Specifications — Aircraft · Battery

Model	DRT_T
Aircraft weight	1,091 g (without battery)
Dimensions (L×W×H)	360 mm × 325 mm × 175 mm
Diagonal length	426 mm
Max ascent speed	5 m/s
Max flight speed	approx. 12 m/s (43 km/h, GPS mode)
Max flight time	30 min
Max flight distance	5 km
Payload drop	Pin release · around 300–500 g
GNSS	GPS + Galileo + BeiDou + GLONASS
Video system	RTSP streaming system Encrypted transmission in the 5.8 GHz band (encrypted controller setup)
Battery capacity	14.8 V / 8000 mAh / 4.4 LiHV
Battery weight	587 g

09 · SPECIFICATIONS

Specifications — Camera · Controller · Software

CAMERA	
Gimbal	3-axis mechanical stabilization, ±0.01° precision · pitch –110° to +120° · yaw ±140°
Weight	110 g
Visible	1/2.8" CMOS · 4K (3840×2160) · f/1.0 · 8× digital zoom · AI-ISP full-color night imaging · AI-HDR
Thermal	256×192 uncooled VOx microbolometer · 8–14 µm · NETD <50 mK @25°C
Detection range	Person approx. 417 m · small vehicle approx. 1,278 m (Johnson criteria)
AI	Multi-object detection and tracking of people and vehicles
Video	RTSP H.264/H.265 · 4K 30 fps stream · 1080p 30 fps recording (microSD up to 256 GB)
CONTROLLER · SOFTWARE	
Controller (option)	Encrypted controller: Windows-based system with a dedicated data link encryption module Standard Android controller: no encryption
Ground control software	DRTView (developed by DRT · Korean · English · Japanese)

Images are for illustration and may differ from the actual product.

Thank you

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