

What is QTW-UAS?

QTW-UAS is VTOL unmanned aircraft system with the tandem of tilt arranged wings supported by four propellers.

The autonomous flight mode from the helicopter mode to the transition flight was confirmed, and so was control (operator assistance) flight by the operator from the GCS additionally, while developing the autonomous flight control of full flight test model FS2 by the machine now.

Regarding the operation control, airframe unique system can correspond to various missions with it's the operational capability that utilizes VTOL operation, hovering and proper cruising speed that are part of pre-programmed flight sequence. System yields high accuracy that incorporates devices such as gyroscope and GPS.



Main specifications:

Name: QTW-UAS FS4

Performance:

Maximum takeoff weight: 30kg
 Payload: 5kg
 Flight time(maximum): 60min
 Cruising speed: 100km/h
 Maximum speed: 150km/h
 Advance distance: 20km
 Control: Autonomous program
 Operator assistance
 Manual

GCS(Ground Control Station):

Flight management: Note PC
 Camera monitor: Note PC
 Antenna:
 2.4GHz for flight management
 1.2GHz for camera
 40 ~ 73MHz

Airframe:

Form: QTW(Quad Tilt Wing)
 Propeller: 700 Variable pitch
 Full length: 1863mm
 Wing span: 1800mm
 Overall height: 619mm
 Propulsion: 2KW Motor x 4

