JOUAV®
Unmanned Aircraft System



CW-25D™

Long endurance Hybrid (gasoline & battery)
Small real-time surveillance system

Long endurance, large payload, stable structure and high reliability, this gasoline-powered VTOL fixed-wing UAV is specially designed for large-area mission. Satisfy continuous flight at high altitude.

Equipped with the all new MG120E™ EO/IR/LR gimbal camera and high-resolution video link, the aircraft system provides high resolution imagery for day and night operations and can safely accomplish different types of missions in large hazardous locations.

Operators can also navigate the CW-25D while suing the JOUAV® CWCommander™ through ground control station. This software provides operators with integrated functions includes mission planning, video surveillance, real-time mosaic stitching, AI processing, multi-station networking, remote take-off & landing, etc, which will offer you real-time situational awareness and actionable intelligence.

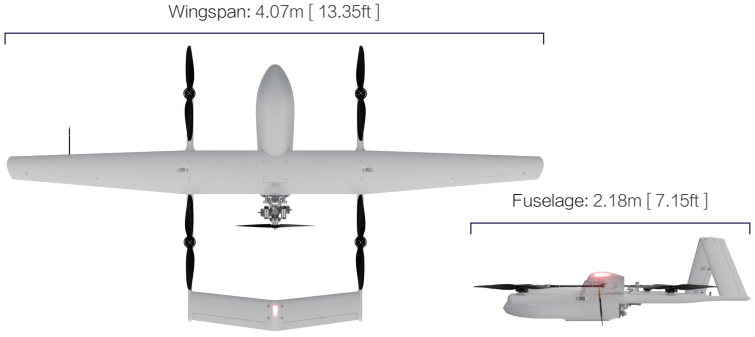
OPTIONS

- Heated & Drained Pitot Tube
- Dual-antenna Heading System
- Self-locking Propeller
- VTOL Marine Vessel

For more info, please visit www.systronics.co.th
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CW Series Family

Intelligent autonomy builds the future.





☑ **MG120E**
EO/IR/LR GIMBAL CAMERA

- EO sensor 1080p@30Hz video resolution, 30X zoom: 4.3~129mm
- IR sensor 640×512 video resolution, 35mm lens, 2X digital zoom
- LR sensor 15~3000m distance measuring, ±1m measuring accuracy



☐ **MG150E**
EO/IR/LR GIMBAL CAMERA
OPTIONS

- EO sensor 1080p@30Hz video resolution, 30X zoom: 4.3~129mm
- IR Sensor 640×512 video resolution, 55mm lens, 2X digital zoom
- LR sensor 50~5000m distance measuring, ±1m measuring accuracy

HARDWARE

Fuselage / Wingspan	2.18m / 4.07m [7.15ft / 13.35ft]
EFI Gasoline Engine	70cc two-stroke
MTOW	32kg [70.5lb]
Communication Range	50km [31.1mi], Option: 100km [62.1mi]
DGPS	RTK / PPK
Navigation Light	Standard
Carrying Case Size (L*W*H)	1550×690×690mm

FLIGHT

Endurance	330-360min
Cruising Speed	82.8km/h [44.7kts]
Wind Resistance	13.9-17.1m/s
Max. Takeoff altitude / Ceiling	4500m / 6500m [14763.8ft / 21325.5ft]
Takeoff & Landing	VTOL

GROUND CONTROL SYSTEM



☑ ***CWCommander***
SOFTWARE



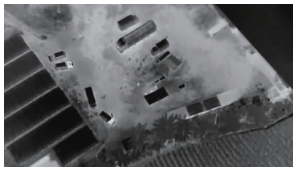
☑ ***GCS-303***
PORTABLE GCS



☐ ***TC301***
HANDHELD TABLET
OPTIONS



Downlink imagery from EO sensor



Downlink imagery from IR sensor

ADVANTAGES

- **Modular Design**
  - The whole system adopts modular design and can be quickly assembled and detached, and is also towable by SUVs.
- **Aviation Grade Reliability**
  - High-altitude performance | Ultra-long endurance
    Heated and drained airspeed tube | Super waterproof performance
    Dual differential GPS | Dual magnetic compass.
- **EFI engine**
  - Designed for large-area missions, the CW-25D has a long service life and is structurally stable and reliable in harsh environment.
- **Advanced Flight Control and Navigation System**
  - High precision MEMS | High performance IMU
    Active safety technology | Autonomous flight
    Anti-electromagnetic interference.

SYSTRONICS
Driving *Digital* Solutions

Systronics Co., Ltd. is a manufacturer and distributor of unmanned aircraft systems in Thailand, We are dedicated to advancing technologies and services for both public and private sectors.

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