

Ch32

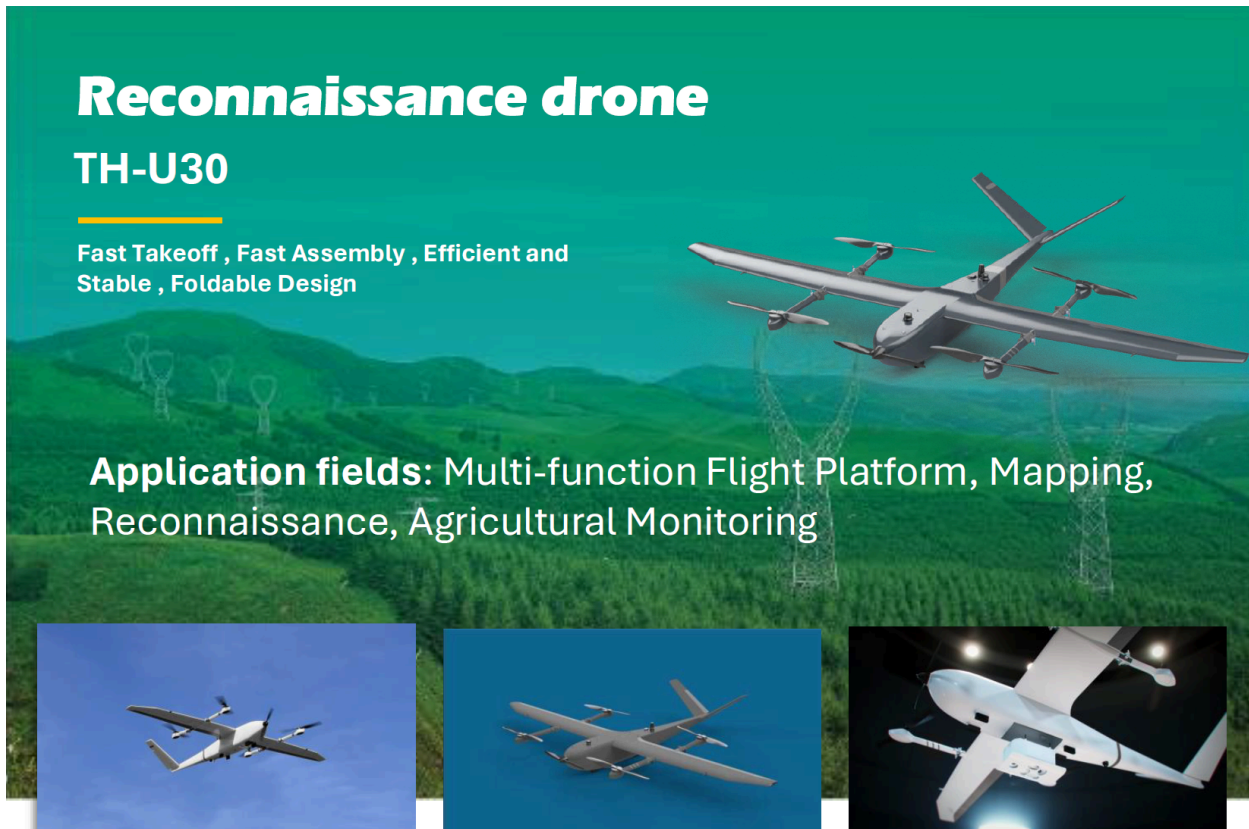
☑ Publish	☑
≡ Client	Inspur
≡ Doc	u30
⦿ Visibility	public
≡ Title	TH-U30 Industrial Inspection & Mapping UAV
≡ Description	For energy, utilities, mining, and infrastructure inspection

Reconnaissance drone

TH-U30

Fast Takeoff , Fast Assembly , Efficient and Stable , Foldable Design

Application fields: Multi-function Flight Platform, Mapping, Reconnaissance, Agricultural Monitoring



TH-U30 Industrial Inspection & Mapping UAV — One-Pager (English Version)

(Professional Sales Copy — Ready for Brochure / PPT / Website)

TH-U30 — Industrial Long-Endurance Fixed-Wing UAV

Reliable · Efficient · Versatile

Designed for energy, utilities, mining, and infrastructure inspection.

CORE HIGHLIGHTS

- **120–90 min endurance** with 3–5 kg professional payload
 - **Large inspection radius (30–80 km)** suitable for most industrial tasks
 - **High-efficiency electric propulsion** — simple maintenance & low noise
 - **Quick deployment:** 2-person team, 20 minutes assembly
 - **Supports EO/IR gimbals, multispectral cameras, Lidar**
-

APPLICATION SCENARIOS

1. Solar Power Plant Inspection

Automated grid-based scanning using thermal + RGB sensors to detect:

- Hot spots
- Damaged modules
- String failures

Customer benefit: Up to 80% efficiency improvement over manual inspection.

2. Wind Farm Inspection

Used for:

- Turbine base & road surveillance
- Blade hot-spot scanning
- Perimeter patrol

Customer benefit: Enables frequent low-cost inspection even in remote highland terrain.

3. Mining & Quarry Mapping

- 2D/3D mapping (DEM/DOM)
- Stockpile volume measurement
- Safety perimeter monitoring

Customer benefit: High accuracy mapping with reduced manpower.

4. Power Line & Substation Patrol

- Medium-range power lines
- Transformers, switches, and insulators visual checks

Customer benefit: Rapid detection of overheating and component degradation.

5. Industrial Park & Factory Perimeter Security

- Day/night surveillance with EO/IR
- Identifying unauthorized entry, fire risks

Customer benefit: Replace multiple ground security posts with a single UAV system.

KEY SPECIFICATIONS

Item	Specification
Maximum Take-off Weight	~30 kg
Endurance	120 min (3 kg payload), 90 min (5 kg payload)
Cruise Speed	70–110 km/h
Max Speed	140 km/h
Operating Radius	30–80 km
Payload Capacity	3–5 kg

Item	Specification
Compatible Payloads	EO/IR, multispectral, Lidar
Wingspan	~3.0 m
Takeoff / Landing	Short takeoff / belly landing
Power System	Full electric propulsion
Assembly Time	< 20 minutes

Full technical datasheet available upon request.

TYPICAL INDUSTRIAL PACKAGE CONFIGURATION

TH-U30 Industrial Inspection Set

- 1× TH-U30 UAV
- 1× EO/IR dual-light gimbal or Multispectral/Lidar payload
- 1× Flight control & ground station software
- 1× Automated mission planning toolkit
- Optional: AI analysis package (thermal anomaly detection, mapping processing)
- 2–3 day on-site training



TH-U30 工业巡检与测绘无人机 — 一页纸 (中文正式版)

TH-U30 — 工业级长航时固定翼无人机

高效 · 稳定 · 多用途

专为能源、电力、新能源、矿山、基础设施巡检场景设计。

核心亮点

- 120-90 分钟航时（3-5 kg 专业载荷）
 - 30-80 km 巡检半径，满足绝大部分工业任务
 - 纯电推进，维护简单，噪声低、可靠性高
 - 两人快速部署，20 分钟完成组装与预飞检查
 - 支持挂载 EO/IR 双光吊舱、多光谱相机、激光雷达 Lidar
-

典型应用场景

1. 光伏电站巡检（热成像 + 可见光）

可快速定位：

- 热斑组件
- 损坏串列
- 汇流箱异常

****客户收益：**巡检效率较人工提升 80% 以上。**

2. 风电场巡检

用于：

- 风机基础、道路情况监测
- 扇叶表面热斑预警
- 周边场区巡逻

****客户收益：**适合高原/山地复杂环境，显著降低巡检成本。**

3. 矿山测绘与安全监测

适用：

- 高精度 DEM/DOM
- 堆体体积测量

- 采场边坡安全巡查

****客户收益：****高效率 + 高精度，替代传统人工测量方式。

4. 中压输电线路与变电站巡检

- 导线、金具、绝缘子外观检查
- 变电站局部热点排查

****客户收益：****快速扫描 + 热成像精准定位问题点。

5. 工业园区 / 港口 / 工厂周界安防

- 昼夜双光巡逻
- 人员/车辆异常行为检测

****客户收益：****以一台飞机覆盖完整园区，大幅减少人力消耗。

关键参数

项目	参数
最大起飞重量	约 30 kg
航时	120 分钟（3 kg 载荷） / 90 分钟（5 kg 载荷）
巡航速度	70–110 km/h
最高速度	140 km/h
任务半径	30–80 km
有效载荷	3–5 kg
可挂载载荷	双光吊舱、多光谱、激光雷达等
翼展	约 3.0 m
起降方式	短距起飞 / 腹降落地
动力系统	纯电推进
部署时间	< 20 分钟

可根据客户需求提供完整技术规格书。

典型行业套装（示例）

TH-U30 工业巡检套装

- TH-U30 工业级固定翼无人机 ×1
- 专业 EO/IR 双光吊舱或多光谱/Lidar ×1
- 地面站 + 任务规划软件（含光伏/风电巡检模板）
- 数据分析工具包（自动热斑识别、测绘处理）
- 2-3 天现场培训与试运行