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⦿ Visibility	public
≡ Title	TH-A1 — Dual-Sensor Aerial Photography & Inspection UAV
≡ Description	For power utilities, firefighting, law enforcement, facility inspection, construction monitoring, environmental surveying, and general aerial photography

Aerial Photography Drone TH-A1

Nimble, Swift, Dual light, Easy to use



Application Scenarios: Aerial Photography





TH-A1 — Dual-Sensor Aerial Photography & Inspection UAV

One-Pager (English Version)

Professional sales copy — ready for brochure / proposal / distributor use

TH-A1 — Lightweight Dual-Light Inspection & Photography Drone

Portable · Thermal + Visible Dual Sensor · 45 min Endurance · 32 km Range

Designed for **power utilities, firefighting, law enforcement, facility inspection, construction monitoring, environmental surveying**, and general aerial photography.

CORE HIGHLIGHTS

- **Lightweight and Portable** (720 g UAV / 1.55 kg MTOW)
 - **Dual-Sensor Payload:** 640×512 thermal + 4K visible camera
 - **Long Range Link up to 32 km**
 - **45 min Max Endurance (Windless)**
 - **Stable Performance in Urban/Industrial Environments**
 - **Beginner-Friendly, Easy to Fly**, fast deployment in 30 seconds
 - **Professional Remote Controller** with large integrated display
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KEY APPLICATION SCENARIOS

1. Powerline & Substation Inspection

- Detect overheating connectors, components, hotspots
- Identify damaged insulators or contamination

Benefit: Low-cost, fast deployment, and safe distance observation reduces onsite risk.

2. Firefighting & Search/Rescue (Thermal Mode)

- Detect missing persons in low-visibility environments
- Scan rooftops, industrial zones, or disaster areas

Benefit: Immediate thermal view accelerates rescue decisions.

3. Police & Security Operations

- Perimeter monitoring
- Night surveillance with thermal imaging
- Rapid assessment of incidents

Benefit: Real-time situational awareness for field units.

4. Environmental & Construction Monitoring

- Construction progress documentation
- Illegal dumping detection
- Waterway, coastline, river pollution patrol

Benefit: Provides accurate aerial evidence and high-frequency monitoring capability.

5. Industrial & Facility Inspection

- Warehouse rooftop inspection
- Solar panel hot-spot detection
- Pipeline temperature anomaly detection

Benefit: Replaces manual inspection, reducing risk and cost.

SPECIFICATIONS

Item	Specification
UAV Weight	720 g
Max Takeoff Weight	1550 g
Max Ascent Speed	6 m/s (normal), 8 m/s (sport)
Max Descent Speed	6 m/s (normal), 8 m/s (sport)
Max Horizontal Speed	15 m/s (normal), 20 m/s (sport)
Endurance	36 min typical, 45 min max (windless)
Max Range	32 km
Effective Signal Distance	15 km (FCC)
Thermal Resolution	640×512 @ 30 Hz
Controller	Integrated HD screen, GPS map + live FPV

PACKAGE CONTENTS (Typical Configuration)

- 1 × TH-A1 Dual-Sensor Drone
- 1 × Thermal + 4K Visible Dual Camera
- 1 × Professional Remote Controller
- 2–3 × Batteries (optional battery kit)
- 1 × Carry Case
- Optional:
 - Thermal analysis software
 - Cloud platform SDK integration
 - AI-based target recognition module

TH-A1 双光航拍/巡检无人机 — 一页纸（中文正式版）

TH-A1 — 轻量化双光多用途无人机

轻便携带 · 热成像 + 可见光双光相机 · 45 分钟续航 · 32 公里航程

适用于 **电力巡检、消防救援、安防执法、工商业设施巡检、建筑测绘、环保监控、航拍摄影** 等全场景。

核心亮点

- **超轻机身 (720 g)**，携带无负担
 - **双光相机 (热成像 640×512 + 可见光 4K)**
 - **最长 45 分钟续航 (无风环境)**
 - **32 km 最远航程**
 - **FCC 15 km 的有效图传距离**
 - **智能返航、环境适应性强**
 - **新手友好，30 秒即可起飞**
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典型应用场景

1. 电力巡检（线路/变电站）

- 热斑检测、设备过温识别
- 外破、绝缘子缺陷检查

****客户价值：****替代高空人工巡检，提高效率与安全。

2. 消防/救援（热成像）

- 在烟雾、黑夜、雨天环境中辨识人员
- 灾后现场快速勘察

****客户价值：****加速搜救判断，提高救援成功率。

3. 公安执法 / 安防监控

- 夜间巡逻、区域布控

- 大型活动上空监控
- 简易应急指挥

****客户价值：****一线快速到位，提升行动可视化能力。

4. 建筑与市政巡检

- 工程进度记录
- 危房屋顶检查
- 城市违法建设监测

****客户价值：****高频次巡检，低成本采集证据。

5. 工商业设施检测

- 光伏热斑识别
- 工厂管道/屋顶温度异常监控

****客户价值：****避免停工损失，提高工厂安全等级。

关键技术参数

项目	参数
裸机重量	720 g
最大起飞重量	1550 g
最大上升速度	6 m/s（普通），8 m/s（运动）
最大下降速度	6 m/s（普通），8 m/s（运动）
最大水平速度	15 m/s（普通），20 m/s（运动）
续航时间	典型 36 分钟；最长 45 分钟（无风）
最大航程	32 km
有效图传距离	15 km（FCC）
热成像分辨率	640×512 @ 30Hz
地面站/遥控器	高清大屏 + GPS 地图 + 实时 FPV

典型套装（示例）

- TH-A1 双光无人机 ×1
 - 热成像 + 4K 可见光相机 ×1
 - 专业遥控器 ×1
 - 电池 ×2-3（可选升级包）
 - 便携航空箱 ×1
 - 可选：
 - 热成像分析软件
 - 云平台/指挥中心 SDK
 - AI 自动识别扩展包
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