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≡ Client	Inspur
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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 Photographing**





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

## One-Pager (English Version)

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

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## 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.

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## 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.

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## 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.

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## 3. Police & Security Operations

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

**Benefit:** Real-time situational awareness for field units.

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## 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.

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## 5. Industrial & Facility Inspection

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

**Benefit:** Replaces manual inspection, reducing risk and cost.

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# SPECIFICATIONS

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

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## 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。
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### 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。
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### 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。
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## 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。
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## 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。
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# 关键技术参数

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

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## 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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