MOBILE · THERMAL & BI-SPECTRUM CAMERAS

Thermal Cameras

L2 Layer · Observation & patrol

Day and thermal sensors in one pan/tilt head, for patrol vehicles, masts and vessels.



KEY BENEFITS

01 **See without light**
A 640×512 thermal core detects people and vehicles by their heat, day or night.

02 **Verify before you act**
The day zoom camera on the same head confirms what the thermal channel found.

03 **Mount it where you need it**
On a patrol vehicle, an AI-EYE mast, a D-DOG robot or a vessel's deck.

HOW IT WORKS

01 **Detect**
The thermal channel picks up a heat signature, day or night.

02 **Verify**
Slew and zoom the day camera onto the same target.

03 **Stream**
IP video (H.264) over RJ45 to the recorder, VMS or D-Command Control.

04 **Respond**
Operators track the target and dispatch a patrol.

SPECIFICATIONS

Bi-spectrum PTZ · model	DF-PTZ2060N-6T2575, approx. 8.5 kg
Bi-spectrum PTZ · day camera	2560×1440, ×30 optical zoom, 0.001 lux, WDR ≥ 120 dB, IP67, IK10
Bi-spectrum PTZ · thermal camera	Uncooled 640×512, NETD ≤ 45 mK, 7.5–14 µm, ≥ 25 FPS, H.264 output
Bi-spectrum PTZ · pan / tilt	360° continuous, pan up to 100°/s, tilt up to 40°/s
Maritime · day camera	2 MP 1920×1080, 1/2.8" progressive-scan CMOS, lens 5.1–153 mm (30× optical zoom)
Maritime · thermal camera	640×512 VOx, 50 mm lens, NETD ≤ 40 mK @ F1.0, 300 K
Maritime · field of view	Visible 4.82°–3.7° · thermal 8.8° × 7.0°
Maritime · range (human)	Detection up to 1,980 m · recognition up to 660 m · identification up to 330 m
Maritime · stabilisation	2-axis gyro; optical-axis overlap ≤ 2 pixels
Maritime · interface & power	1 × 10Base-T/100Base-TX, RJ45 · 18–26 V DC
Maritime · environment	Operating –20 °C to +50 °C · storage –30 °C to +55 °C · IP66 · ≤ 15 kg

TENDER SPECIFICATION TEXT

1. GENERAL

The system shall be Thermal Cameras by D-FENCE Electronic Fencing and Security Systems Ltd. (ISO 9001:2015 certified quality management), or an approved equivalent that meets every requirement in this section.

2. FUNCTION

Day and thermal sensors in one pan/tilt head, for patrol vehicles, masts and vessels.

3. THE SYSTEM SHALL PROVIDE

- **Two sensors, one aim:** Day zoom and thermal channels share one pan/tilt head and one line of sight.
- **Vehicle-rated PTZ:** The bi-spectrum head is built for roof mounting on patrol vehicles, with continuous 360° pan.
- **Gyro-stabilised:** 2-axis stabilisation keeps the maritime head on target from a moving vessel.
- **Long range:** Maritime model: detection up to 1,980 m, recognition 660 m, identification 330 m (human).
- **Network video:** IP video (H.264) over RJ45 into your recorder, VMS or D-Command Control.
- **Outdoor rated:** IP66 maritime head; IP67 day module on the vehicle head.

4. TECHNICAL REQUIREMENTS

- **Bi-spectrum PTZ · model:** DF-PTZ2060N-6T2575, approx. 8.5 kg
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5. DETECTION SEQUENCE

1. **Detect:** The thermal channel picks up a heat signature, day or night.
2. **Verify:** Slew and zoom the day camera onto the same target.
3. **Stream:** IP video (H.264) over RJ45 to the recorder, VMS or D-Command Control.
4. **Respond:** Operators track the target and dispatch a patrol.

6. SUBMITTALS

Before installation, the contractor shall submit the manufacturer's datasheet, the installation instructions and the zone layout for approval.