Laser & Optical & Thermal All-in-one Camera From http://www.jammerbooster.com/

MODEL:	TH-HD15KM-TL-GRJ
SIZE:	750*440*220mm
PACKAGE:	Neutral Packing

HD Long Range Optical & Thermal Imaging & Laser Lighting All-in-one Camera

Model: TH-HD15KM-TL-GRJ

Introductions:

The HD Long Range Optical & Thermal Imaging & Laser Lighting All-in-one Camera system relies on aerospace flight distance missile servo stabilization technology, servo control technology, image processing technology, communications control technology, optical systems integration technology and other core technology, high precision and high reliability digital proprietary gyro stabilized platform, can effectively isolate the carrier disturbance, clear images and stable; using automatic tracking DSP + FPGA-based digital image technology to meet the stable target tracking of complex environment;

Product design and production process strictly according to demonstration program evaluation, detailed design review, design verification, design validation by aerospace product design and management control procedures, and strictly controlled product quality.

Features:

- 1. Visible light, thermal sensing dual-channel imaging technology, integrated structure, 24 hours monitoring;
- 2. Thermal imaging using international advanced uncooled polysilicon, micro heat detectors 384*288 or 640*480 line;
- 3. Thermal imaging fixed focal length lens, visual field switch, continuous zoom selectable, motorized focus to obtain a clearer picture of night vision; according to the focal length of the lens can detect the target with distance 1 to 15km;
- 4. Thermal imaging integrated temperature detection module, real-time analysis of target area temperature changes, automatic warning of fire detected;
- 5. High-definition video camera through the fog, mechanical filter switch, 240 gray levels, automatic black level, contour correction;
 - 6. Magnification zoom lens to telephoto needs, with auto-focus, preset function?
- 7. Inclement weather adaptability, with far-infrared function, even if all black, rain, snow, fog, smoke and dust environment can be effectively imaged;
 - 8. Preset reach 80, 255 or more, support apple peeling scanning;
- 9. Resistance to harsh environments with advanced reinforcement, proof from dust, rain, salt spray, vibration and shock, IP66 level;
- 10. GIS systems can be combined to have targeting positioning capabilities, positioning accuracy 0.01 degree (optional);
 - 11. 3D positioning, real-time image transmission to the monitoring center (optional);
 - 12. Automatic Target Tracking;
 - 13. HD lens auto-focus function;
- 14. Maximum temperature display, mouse temperature tracking, multi-ring temperature contrast temperature alarm, multi-mode temperature alarm;
 - 15. Laser light can see up to5kmtarget with HD image at night.

Applications:

Warship Air defense, border and coastal defense, forest fire prevention, reservoirs, landslides, substations, power plants, petrochemical field, fireworks identification alarm, traffic intelligence analysis, runways, airports, smart city, police vehicle monitoring, etc.

Technical Specifications:

Mechanical Characteristics

Application environment

Installation Power supply

Power Consumption

Temperature & Humidity

Protection level

Weight

Size

Visible Light Imaging

Imaging

Resolution

Pixels

Min Illumination

Color black and white

conversion

Lens focal length

O/I enlarge

Lens Control

Others

Optical magnification

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Infrared Thermal imaging
Detector Type

Pixels

Spectral range

Lens focal length

Focus

Outdoor

Flat base mounting

AC/ DC24V ±10% lin?10A

?100W?including heating: ?250W

-35?~+60?& 35%?90%

IP66, anti-rust, anti-corrosion coating

35Kg

750*440*220mm(L *W *H)

1/1.7", 1/1.8", 1/1.9", 1/2"Interline CCD ?HD CMOS/CCD?

1920*1080P, 2048*1536, 4096*2160, 4000*3000

HD 200/300/500/1000megapixels

0.0009Lux (night)?0.0002Lux (day)

Day / night automatic conversion, ICR mechanical double filter swi

external control

10~320mm, 15.6~500mm, 12.5~750X2=1500mm, 16.7~1000X2=2000r

2X

Power zoom, aperture value F3.9-T1500

32X/60X / 120X

Penetrating fog Imaging, day and night IR correction 400-1100nm, ler

available

Focal plane array(FPA), Uncooled VOx, refrigeration micro bolome

384x288/ 640X480

8-14?m

75mm,100mm,150mm,250mm,320mm,450mm, customized

Motorized focus, or auto focus

Temperature Mode

3D Positioning

Auto Focus Lens Swatches control Image Processing Fire Recognition The maximum temperature display, mouse temperature tracking, mu temperature contrast temperature alarm, multi-mode temperature al

Available (optional)

All the target near or far can be auto focused
Black hot, incandescent and other 11 kinds of swatches switch
Detail Enhancement (DDE), automatic gain control (AGC)
Integrated temperature measurement processor, real-time analysis

target area temperature, and fire automatic warning

All-round heavy-duty turntable & Shield

Horizontal rotation speed

Constant speed 3 ° / s or variants 0-30 ° / s

Vertical rotation speed Horizontal rotation range

Constant speed 1.5 ° / s or shift 0-25 ° / s 360 ° continuous rotation

Vertical rotation range Communication Control

± 45 ° (adjustable) RS-485/422?Pelco P/D -2400/4800/9600

Preset

Cruise function
Positioning accuracy
Window size
Shield Function

Secondary development

80, 255

Support 8 cruises, 10 points per cruise, support apple peeling scant ±0.01°

Multi-window Ø100, Ø65, Ø40, germanium window Heating, air-cooling, sun shading, wipers RS422 PTZ return function, can work with the GIS system to position

Laser Lighting

Distance

Automatic zoom

Working life

1 to5km

and longitude(optional)

Automatic zoom, 240 or stepless optical zoom lens, standard interf synchronize with automatic tracking
High reliability, working life more than 20,000 hours



