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TELEDYNE FLIR

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FLIR
VUE TZ20-R
Sensor

BY

KAMBILL SYSTEMS PVT. LTD.

TELEDYNE FLIR

TELEDYNE

Vue® TZ20-R

High Resolution, Radiometric Gimbaled Thermal Zoom Drone Payload

User Training

Teledyne FLIR
Infrared Camera OEM

ABOUT THE PRODUCT

The Vue TZ20-R thermal-zoom drone payload, proudly made in the USA, enhances DJI V2 Matrice 200 series and 300 drones by offering exceptional radiometric capabilities. Featuring two Boson® thermal cameras, it delivers unparalleled pixel density and an impressive 20x zoom, enabling various industries such as utility, roofing, and emergency response to conduct safer, clearer, and more efficient inspections, surveillance, and search operations.

APPLICATIONS

- Industrial Inspection
- Emergency Response
- Surveillance and Security

FEATURES

DUAL THERMAL CAMERAS

Equipped with two thermal cameras, the TZ20-R offers superior thermal imaging quality. This dual-camera setup enables four times more pixel density compared to competitors, ensuring detailed visuals at all zoom levels.

UNMATCHED 20X ZOOM CAPABILITY

The payload provides an exceptional 20x zoom capability, allowing users to zoom in on objects of interest with remarkable clarity. This level of zoom empowers industrial inspectors, emergency responders, and various professionals to assess and identify targets accurately from a safe distance.

RADIOMETRIC TEMPERATURE MEASUREMENTS

The TZ20-R enables users to capture and record radiometric temperature measurements. This feature is particularly beneficial for sectors such as utility, roofing, solar farm inspection, and emergency response.

CONTACT US

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SPECIFICATIONS

AIRCRAFT

Airframe Capatibility
DJI V2 Matrice 200-series and Matrice 300

Ground Control
DJI Pilot App

ELECTRICAL

Electrical Interface
Skyport 2.0, 13.6V/2A

ENVIRONMENTAL & APPROVALS

Environmental Sealing
IP44

Operational & Storage Temperature
Operational: -20° to 45°C (-4° to 113°F) Storage: -20° to 60°C (-4° to 140°F)

Tested EMI Performance
FCC part 15 Class B

GIMBAL

Gimbal Range of Motion
3-axis Pitch: 30° to -120° Yaw: ±270°

IMAGING & OPTICAL

IR Camera Optics
Wide FOV: 95° HFOV, 4.9 mm EFL Narrow FOV: 18° HFOV, 24 mm EFL

IR Camera Resolution
2 FLIR Boson 640 × 512

Radiometric Features
Spot meter, measurement box with min/max/avg Isotherms above or below threshold temperature

Streaming Video
640 × 512 @ 25 Hz

MEASUREMENT & ANALYSIS

Thermal Sensitivity
85 mK @ F/1.0

MECHANICAL

Mechanical Interface
Skyport 2.0 connector, X-Port DJI gimbal

RADIOMETRY

Radiometric Accuracy

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Accuracy: ±5C / 5% for scenes +10C to +100C Scene dynamic range: -10C to +300C

THERMAL CAMERA

Pixel Pitch

12 µm LWIR

VIDEO & RECORDING

Recording

Still: Radiometric JPEG, raw TIFF Periodic capture 1s – 30s interval, all still image formats Video
MPEG 25Hz (zoomed)
Radiometric CSQ 5Hz (zoomed)
Raw multipage TIFF 10Hz (wide and narrow FOV separate)

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