

ThermalCapture 2.0

STORE raw, digital radiometric thermal data.



OEM



TOP Features



9Hz & 30Hz

Available for 9Hz and 30Hz Tau 2 cores



Measurement

Per-pixel temperature measurement



Digital

Radiometric data stored on SD card



Interfaces

Serial interfaces for Meta Data



Live Video

Analog live video output



Geo-Referenced

Position + Time Storage



Controllable

Remote via S-BUS / PWM

Introduction

ThermalCapture 640 stores fully radiometric per pixel temperature data onto a Micro SD card directly on-board of your UAV. This eliminates transmission errors and enables you to do per-pixel temperature measurements with a thermal resolution of 0.04 degrees.

Via the analog video output you get a live video stream to find the perfect view to the object of desire.

Various I/O ports let you change color palettes or zoom levels remotely and precise position and time information can be obtained from external GPS receivers, or via Mavlink input. ThermoViewer is our free software to process recorded data. Important images can be easily selected and exported into various formats, including radiometric JPG files, which can be processed with all existing FLIR software tools.



Specifications



Dimensions:
45x45x60 mm
1.7x1.7x2.3 in

Weight (incl. Tau):
95 gram
0.21 lb

Data output:
microSD card
HDMI / AV

Interfaces:
MAVlink, NMEA,
S-BUS, PWM

Housing:
Aluminum

Post-processing:
ThermoViewer,
FLIR Tools

Thermal sensor:
FLIR Tau 2, resolution options:
324, 336, 640 pixel

Thermal sensitivity:
0.05K (performance grade) or
0.03K (industrial grade)

Thermal lens options:
Standard: 7.5, 9, 13, 19 mm
Optional: 25, 35, 50, 60, 100 mm