

Test Report of MiCAM05 Temperature Measurement

Brainvision Inc.

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ETU: MiCAM05(S/N 50021) with four MC05 Ultima-D camera

Room Temp.: 25.7C, with air conditioned Humidity: 58%

Condition : After 1 hour monitor mode operating continuously

Equipment: FLIR i5 IR Camera

Date: 2016 9/9

Test site: Brainvision Kanda Office

Examiner: Michinori Ichikawa

Summary

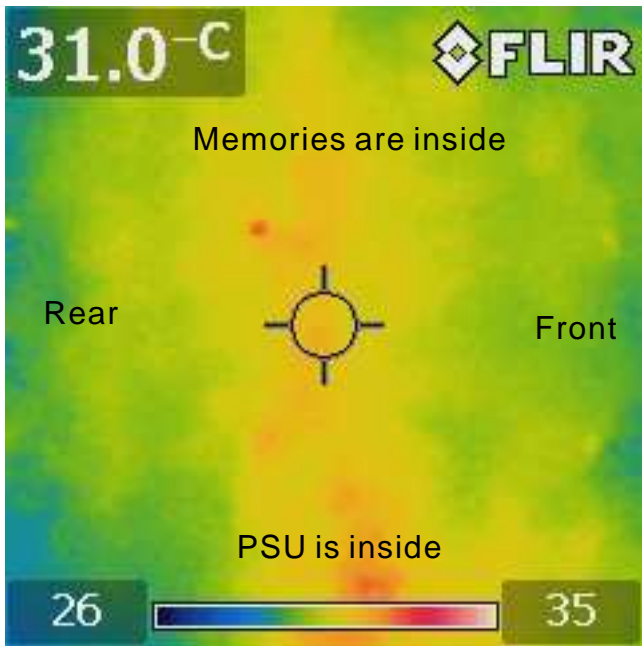
No human harmfully for anyplace of exterior surface

No risk for flame and heat damage for inside devices

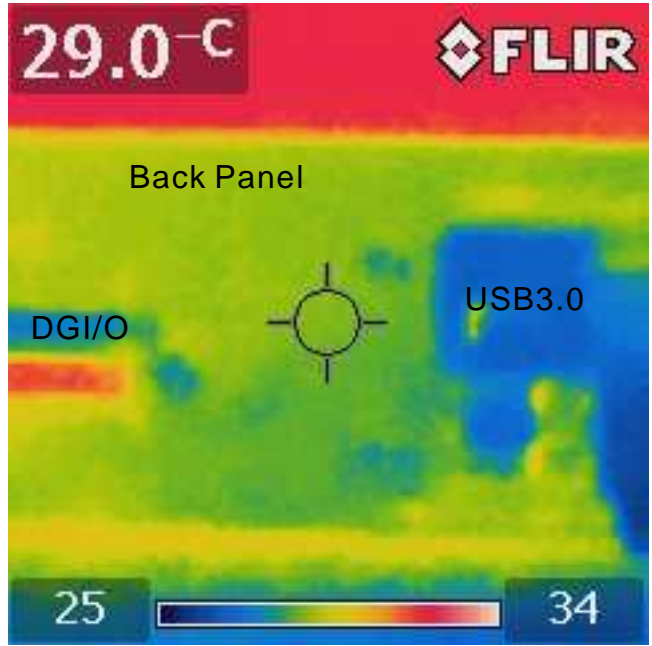
Test results for each site

1. Processor Exterior: highest point is top of the case, 38.0C
2. Processor Exterior: average temperature is 28.0C
3. Camera Exterior: highest point is backside, 38.5C
4. Camera Exterior: average temperature is 35.5C
5. Processor Interior:
 - DC-DC conv. for 3.3V (Cosel BNRS20) 72.5C
 - DC-DC conv. for 6.0V (AO AOZ1037) 65.0C
 - AC-DC conv. (Cosel PBA150-12V) 63.0C
 - Memory unit array (using XC6SLX16) 61.0C
 - Other part temperature are below than 42.0C
6. Camera Interior:
 - Sensor Surface 41.8C (It may be interior average)

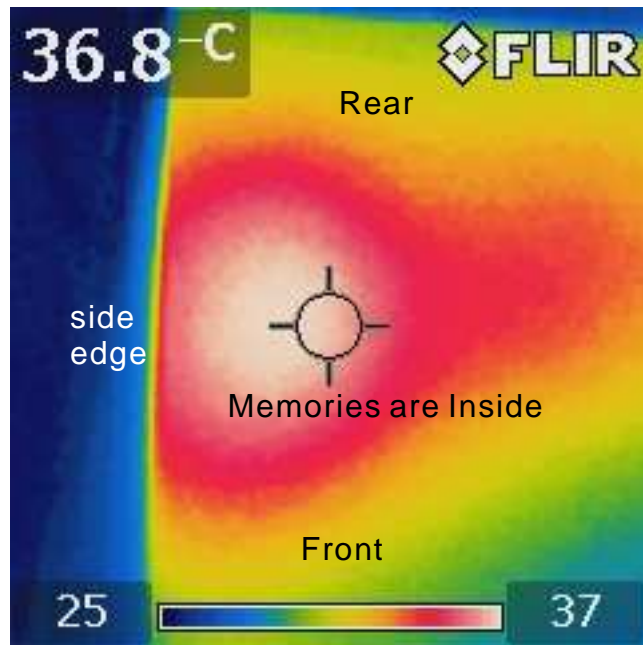
Bottom of the case



Back Panel

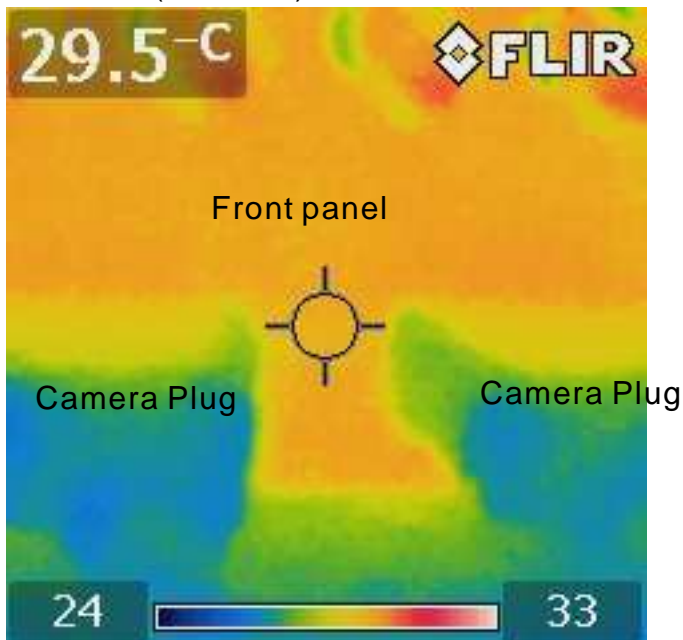


Exterior

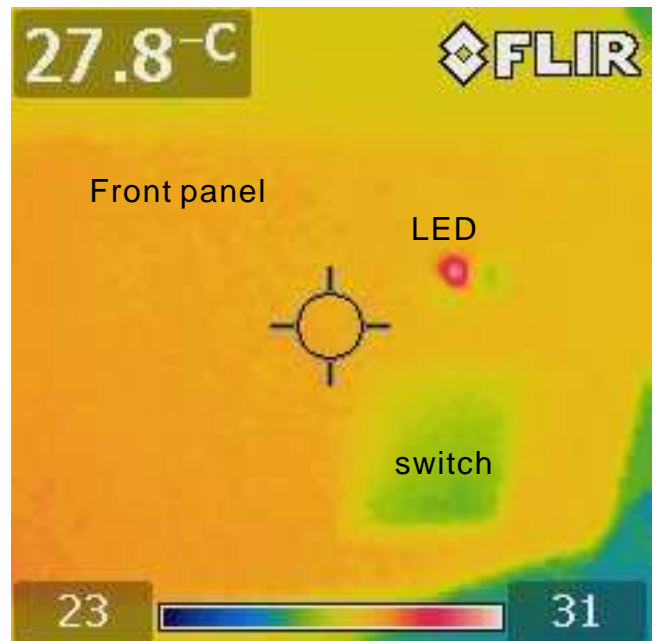


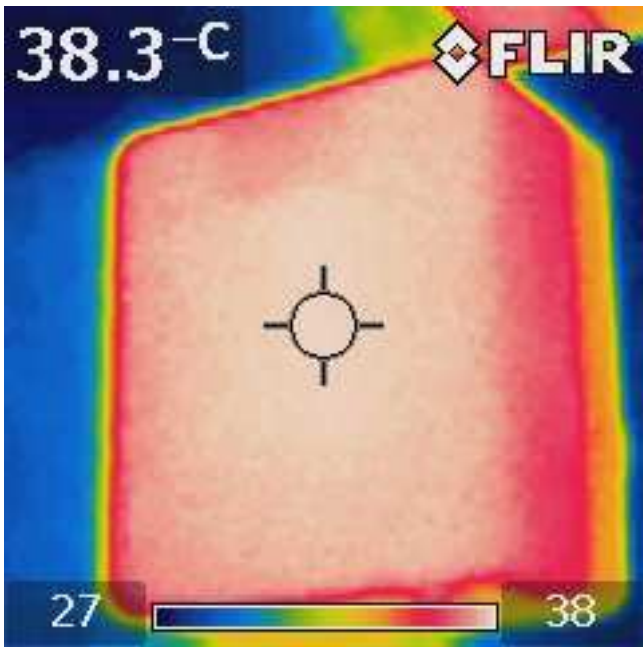
Top of the case

Front Panel (IF board)

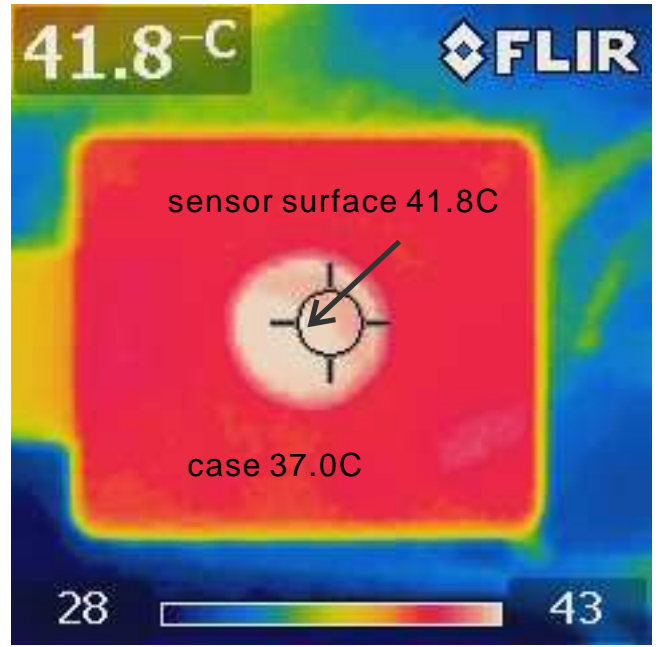


Front Panel (Main SW)



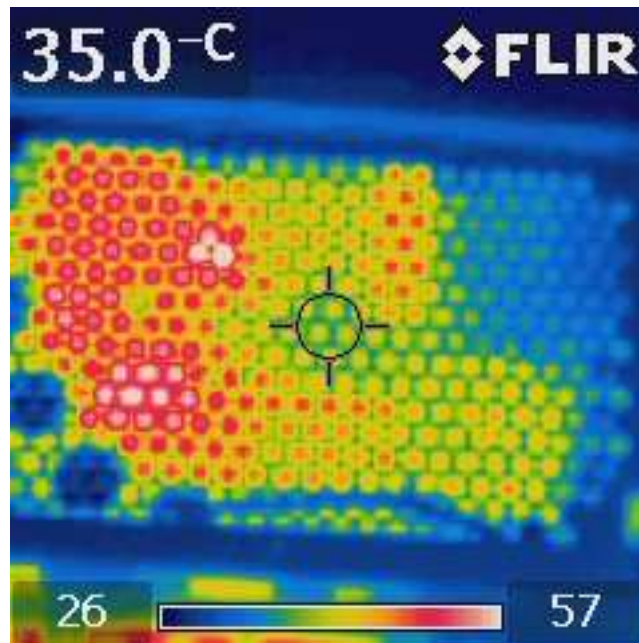


Camera Backside

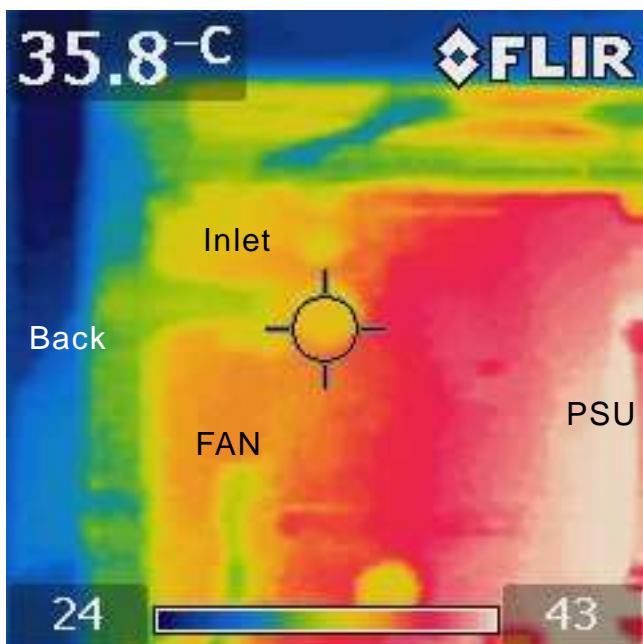


Camera Front

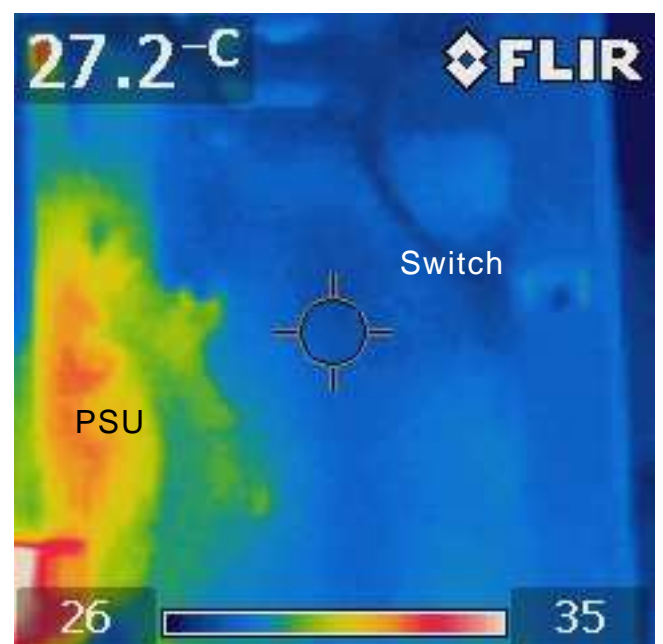
Interior



PSU

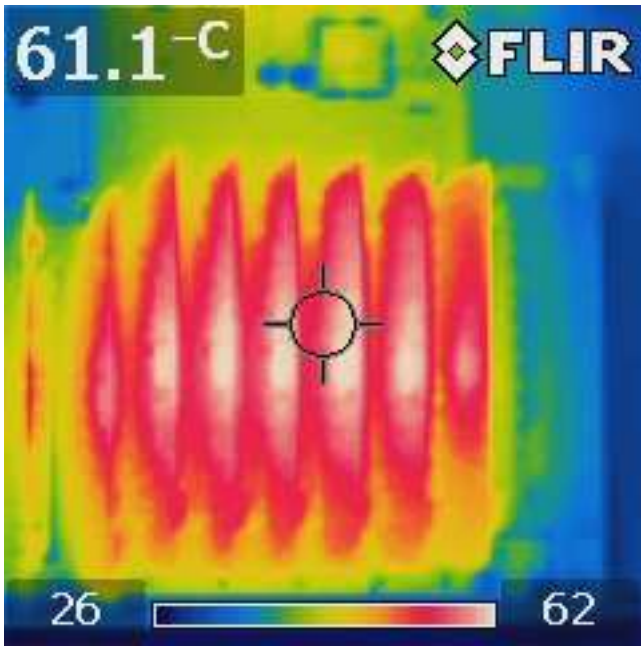


Inlet Inside

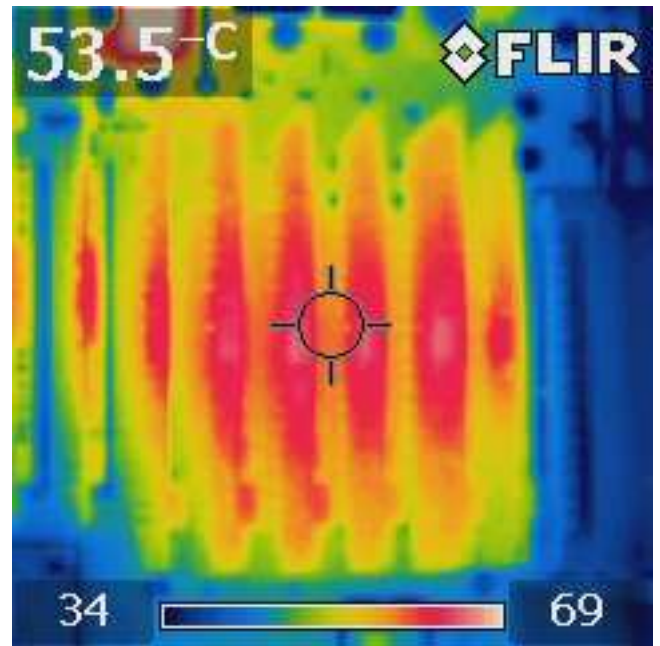


Main Switch internal

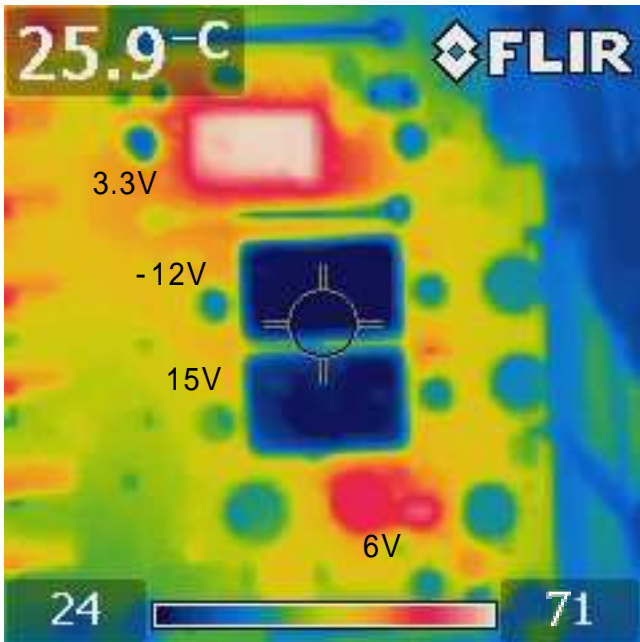
Interior



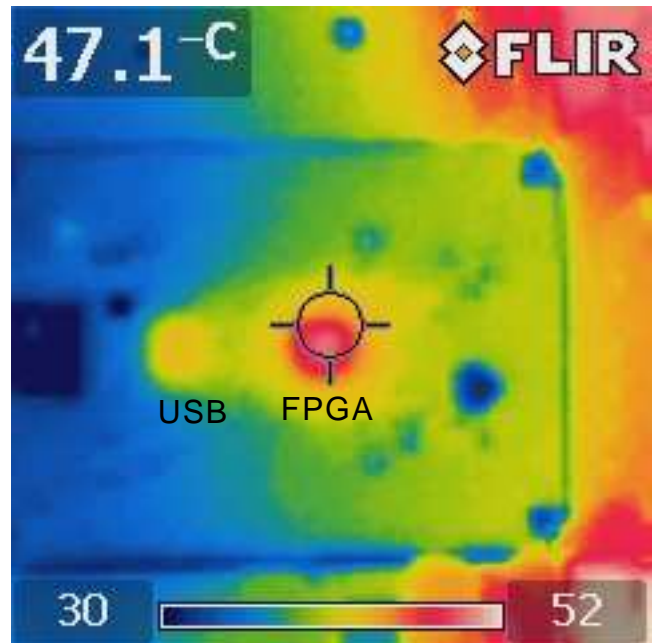
Memory Bank A



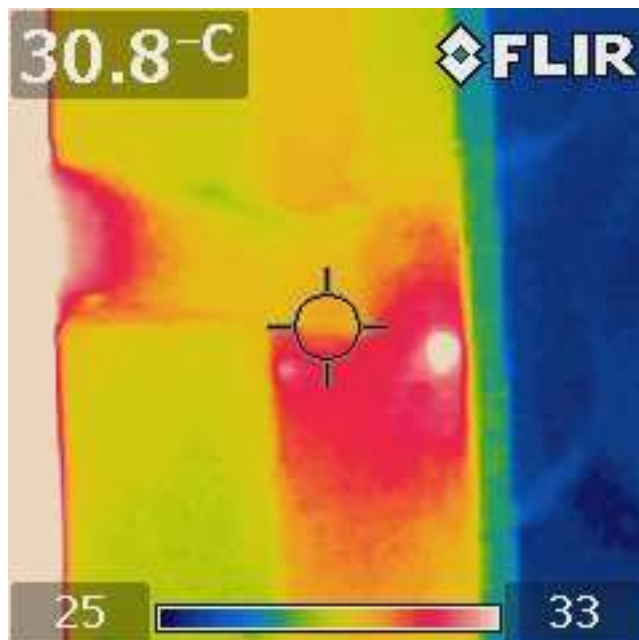
Memory Bank B



DC-DC converters



USB30 Board



Front Panel PCB