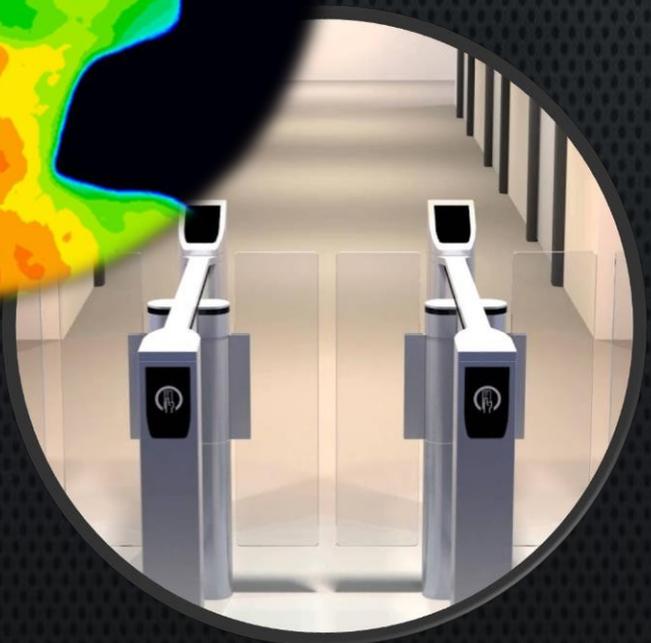
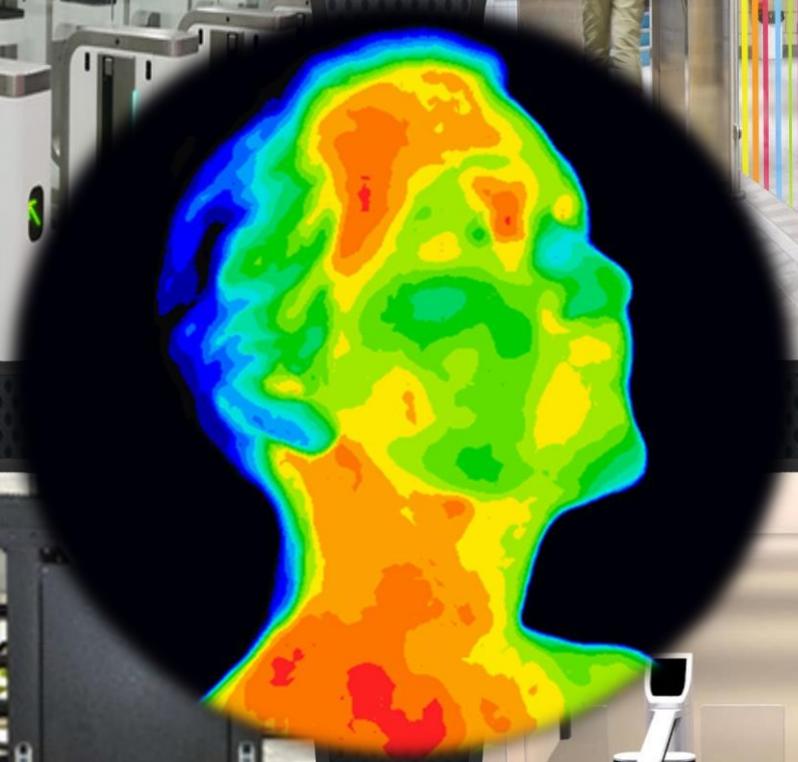
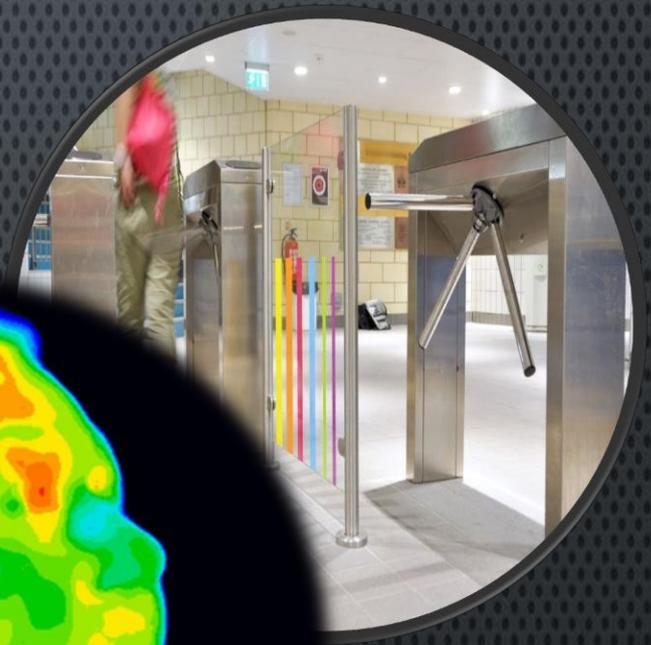
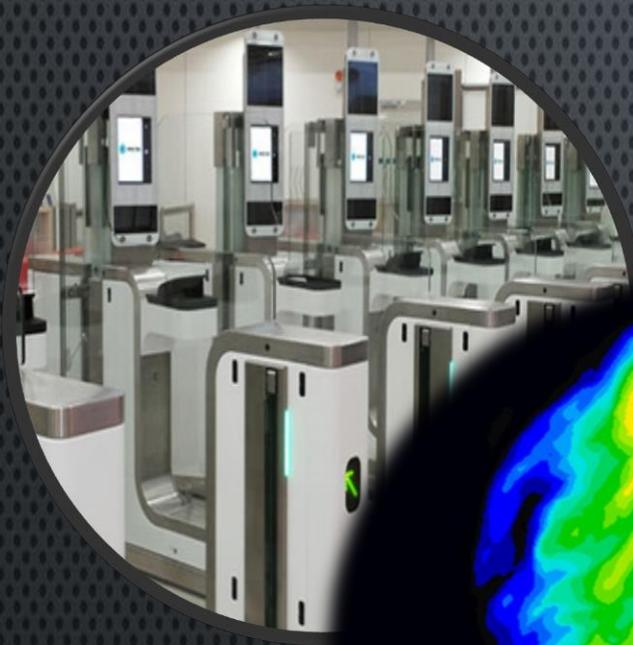


RFUSION

TOMORROWS TECHNOLOGY TODAY

Elevated Body Temperature Solution "REBT"



3 year warranty



Utilising proven thermal technology, EBT (Elevated Body Temperature) Solutions from Rfusion deliver high speed, highly accurate temperature readings to allow reassurance and access control connectivity.



Fig.1 Temperature Detection In action



Fig.2 Form factor of camera unit & thermal core

By utilising radiometric technology from World leading thermal suppliers, the solution benefits from:-

- Small Form Factor
- Aesthetic discretion
- Continuous Ambient Calibration
- Fast Read Time
- Open Integration (SDK & ONVIF)
- Standalone or Multi use

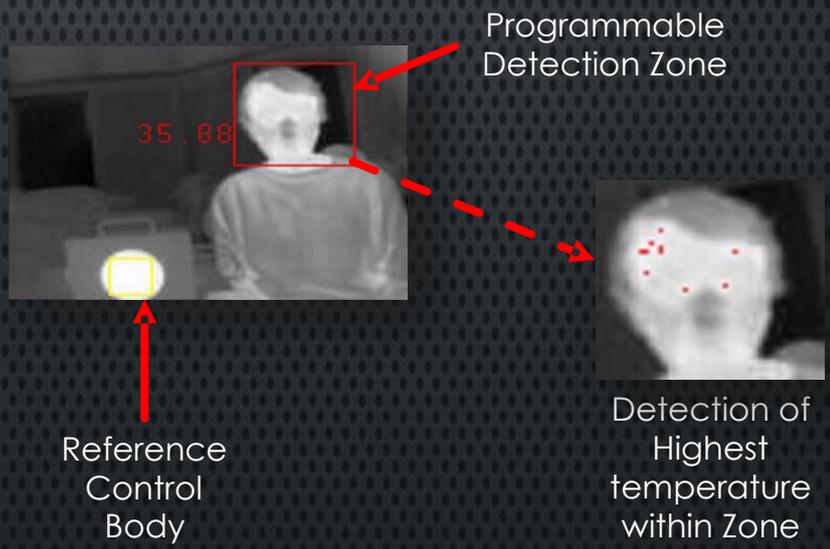
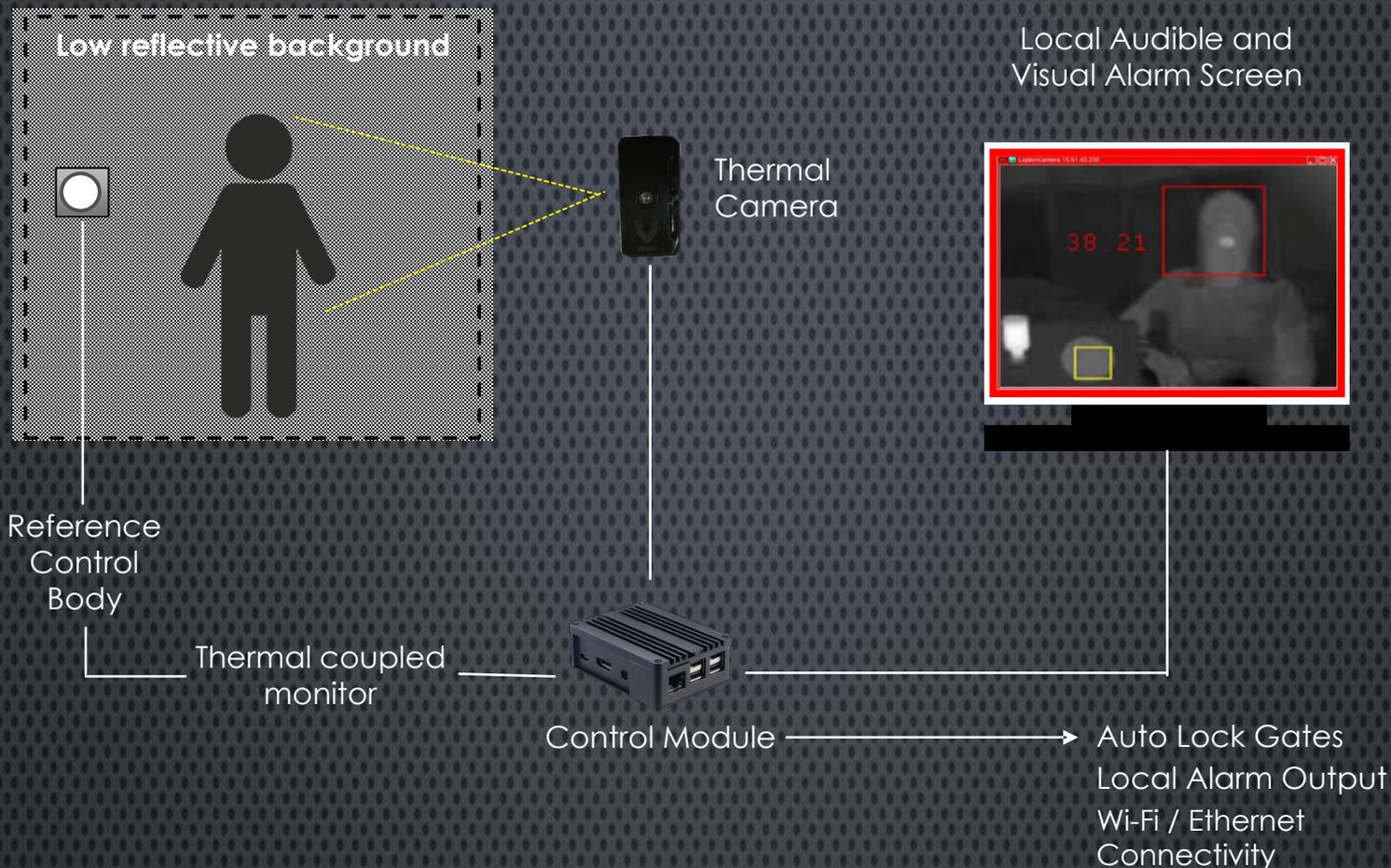


Fig.3 Highest temperature pixel cluster detection

Using Pixel Cluster Detection, the system can be defined with a fixed detection zone

A mandatory Reference Control Body (Black Body) is linked to the camera controlled unit for constant ambient temperature calibration – ensuring fluctuations in ambient temperature are attenuated to the thermal camera output



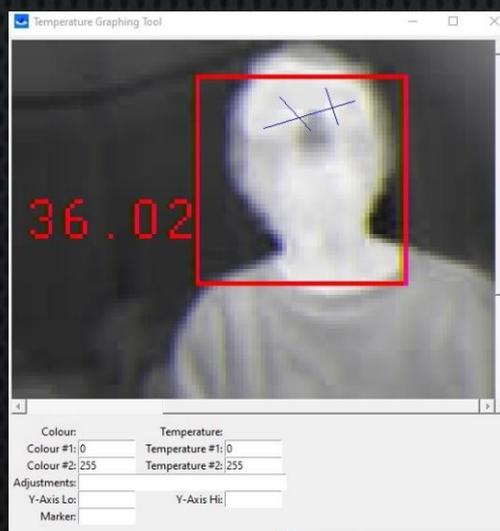


The system concentrates the temperature reading to the canthi area of the human eye – recognised as the area where the blood vessels are closest to the surface of the body

The control module continuously monitors the ambient air temperature to ensure a consistent and calibrated temperature reading from the subject

When a subject displays an elevated temperature reading (associated with health, infection or anxiety) that exceeds the programmed threshold, the system offers:-

- Access control link – Software and Hardware I/O control
- Visual Alert – options include visible and audible outputs
- Visual output stream (with thermal date) via ONVIF/RTSP



Temperature detection from Canthi region



System Specifications



Weight 95.3g (with screen)
Dimensions 20 x 12 x 5cm
Screen Size 7 inches

Without Screen
Dimensions 6.8 x 9.2 x 3.3cm
Sandblasted Anodised Aluminium Body



- Unique design allows for fan-less cooling
- Full access to all external connections
- Broadcom 64-bit, Quad core SoC @ 1.4Ghz
- 1GB LPDDR2 SDRAM
- 2.4GHz/5GHz IEEE 802.11 b/g/n/ac Wireless LAN (WLAN)
- Bluetooth Low Energy v4.2 (BLE)
- Gigabit Ethernet over USB 2.0 (maximum throughput 300Mbps)
- 4 x USB 2.0 Ports
- Extended 40-pin GPIO Header
- Full Size HDMI, MIPI DSI display port, MIPI CSI camera port
- 4-pole stereo audio/composite video output port
- MicroSD card slot for operating system and data storage
- Power over Ethernet (PoE) enabled (requires separate PoE HAT)
- Power supply requirements - 5V/2.5A DC via micro USB or GPIO



Weight 31.8g
Dimensions 8 x 3.7 x 2cm
Wireless 802.1a

- | | |
|----------------------------|--|
| • Sensor | Uncooled Vox microbolometer |
| • Spectral Range | Longwave Infrared, 8 μ m to 14 μ m |
| • Array Format | 160 x 120 Progressive Scan (19200px) |
| • Pixel Size | 12 μ m |
| • Effective Frame Rate | 8.7Hz |
| • Thermal Sensitivity | <50mK (0.050° C) |
| • Temperature Compensation | Automatic Output image independent of camera temperature |
| • Radiometric Accuracy | High Gain Mode: +/- 0.3° |
| • Scene Dynamic Range | -10° to +140° C (High Gain) |
| • FoV Horizontal | 57° |
| • FoV Diagonal | 71° |
| • Lens Type | f/1.1 |
| • Output format | User selectable 14bit, 8bit (AGC Applied) or 24bit RGB (AGC and colourisation applied) |



Blackbody reference unit
Power 6v DC
Size 12 x 12 x 7.5cm
Weight 525g

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