

# Device technical specifications

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## Printed Circuit Board (PCB) and Processing

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The camera's printed circuit board combines the Himax HX6538 processor, which includes an internal neural network accelerator, with a communications module featuring both Bluetooth and LoRaWAN antennas. This enables efficient wireless communication and real-time data processing.

## Camera, Sensor and Motion Detection

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- The board connects to a Raspberry Pi camera for high-quality imaging
- A radar-based motion detection system enhances tracking precision.
- An optical sensor device includes an embedded motion detection mechanism, improving sensitivity to movement in various environmental conditions