# Aitronics

## MiiS

# AI Sensor Chip
### The first SOC with AI & Image Sensor

CIS · AI · CPU · ISP
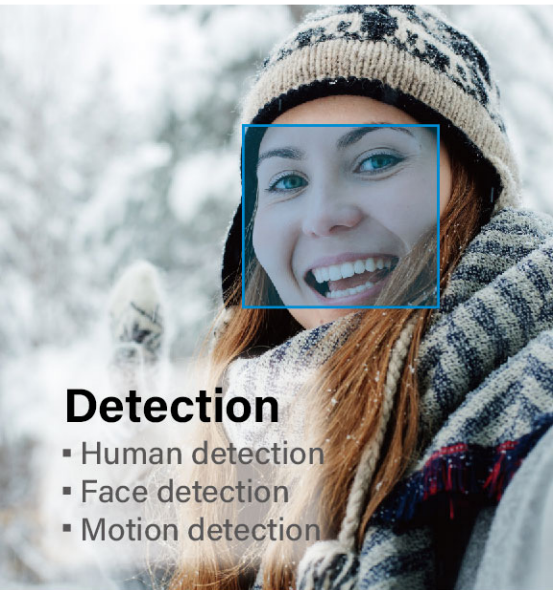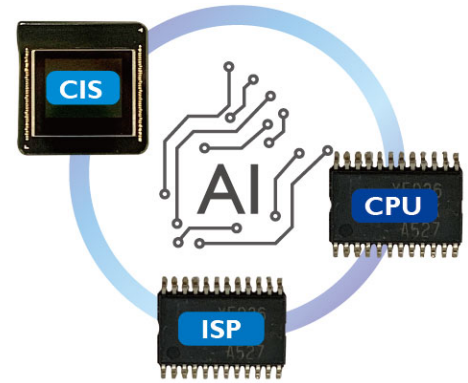
## Detection
- Human detection
- Face detection
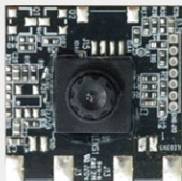- Motion detection

## Tracking
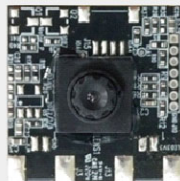- Human tracking
- Flick Gesture
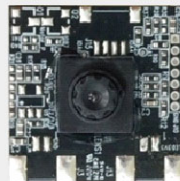- Motion Tracking

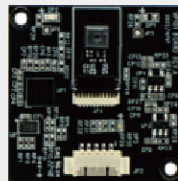## Recognition
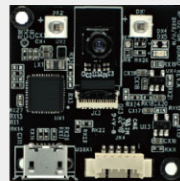- Gesture recognition

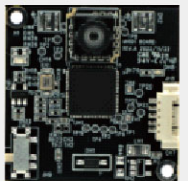| | MS100-HT (320 x 320) | MS100-FD (320 x 320) | MS100-GR (320 x 320) | MP101 (320 x 240) | MP102 (320 x 240) | MH101 (640 x 480) |
|---|---|---|---|---|---|---|
| Feature | • Detect and track human face、head、head-and-shoulder and upper body<br>• Real-time edge decision-making without network connection | • Detect and track human face<br>• Real-time edge decision-making without network connection | • Real-time edge decision-making without network connection | • Neural network<br>• Human Detection<br>• Face Detection<br>• Real-time output Face/Human position, size information | • On chip built-in gesture recognition hardware<br>• Handshape detection, more gesture types | • Accurate & reliable object detection<br>• Real-time detect, no network latency |
| Applications | • Fallen detection<br>• Smart gimbal<br>• Interactive toy | • Smart home appliances<br>• Sitting posture detection<br>• Interactive toy | • Intelligent power switch<br>• Interactive toy<br>• Smart home appliances with touchless switch | • Automatic tracking online meeting camera.<br>• People counting<br>• Interactive toy | • Interactive toy<br>• In-Vehicle infotainment/HUD | • Chair back anti-pinch detection<br>• Interactive toy |
| Human detection & tracking | ✓ | | | ✓ | | ✓ |
| Face detection | | ✓ | | ✓ | | ✓ |
| Gesture recognition | | | ✓ | | ✓ | |

# Human detection & tracking

- **Fallen detection**
  Able to detect human movement in covered area.
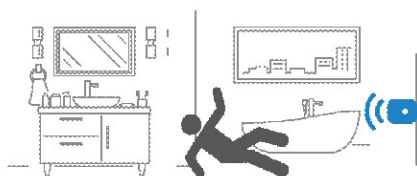
- **Toy robot**
  Able to detect human movement and respond accordingly.
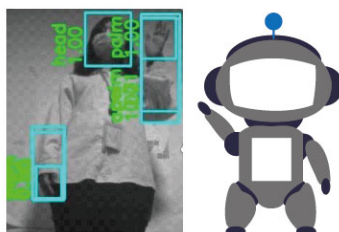
- **Smart Gimbal**
  Able to track human movement and dynamically adjust the gimbal's angle.



# Face detection

- **Mirror light**
  Able to detect human face and turn on the mirror light.

- **Interactive toys**
  Through face detection, toys will move and act as crawling toys for babies.



# Gesture recognition

- **Screen light**
  Using palm and fist to control the brightness and color temperature of the light.

- **Smart toilet**
  Automatically opens the toilet lid through gesture recognition.



---

**MiiS**