# MS100-FD
## Face Detection Module

The module can detect and track human face. This module is mainly to detect whether there is a face in the field of view. Usually the face is facing the front when reading. The posture is considered to be appropriate if the face was detected with the device ahead. Therefore, a face detection device may be used in sitting posture evaluation.
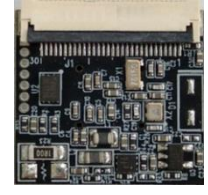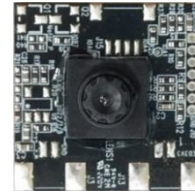
- Detect and track human face
- Real-time edge decision-making without network connection
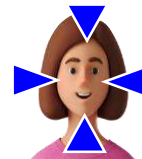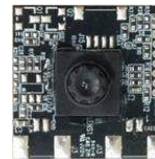
## Application

- Smart home appliances with touchless switch
- Intelligent power switch
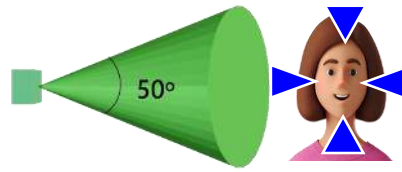- Sitting posture detection
- Interactive toys

## Ratings / Specifications

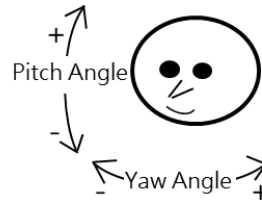### Ratings

| Item | Rated values |
|---|---|
| Supply voltage | 3.3 VDC |
| | 5.0 VDC (Option) |
| Consumption current | <0.21 A |
| Operating temperature | 0 to +50$^{o}$C |
| Storage temperature | -30 to +70$^{o}$C |

# MS100-FD

## Specifications

| Angle of View | Angle |
|---|---|
| Horizontal detection range (angle of view) | 50$^o$ |
| Vertical detection range (angle of view) | 50$^o$ |



| Angle Range | Angle |
|---|---|
| Pitch angle (up-down) | ±40$^o$ |
| Yaw angle (left-right) | ±40$^o$ |



| Host Communication Specifications | Specifications |
|---|---|
| Standard | GPIO |

| Detection Distance | 35-60 CM |
|---|---|

## Connector Pin Assignment

| Pin No. | Pin Name | Face Detection |
|---|---|---|
| Pin1 | 3.3V | Power Supply |
| Pin2 | Ground | Ground |
| Pin22 | Reserved | - |
| Pin23 | Reserved | - |
| Pin26 | Out2 | Face detection |
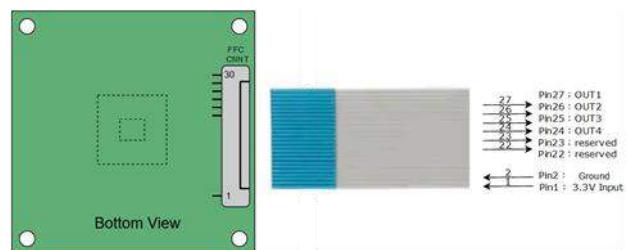


**Note. Output level High (3.3V) active.**

## Alternative Power Supply Input (Option)

| Pin No. | Pin Name | Face Detection |
|---|---|---|
| Pin1 | 5V | Power Supply |
| Pin4 | Ground | Ground |