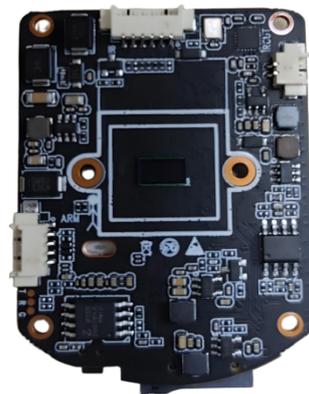
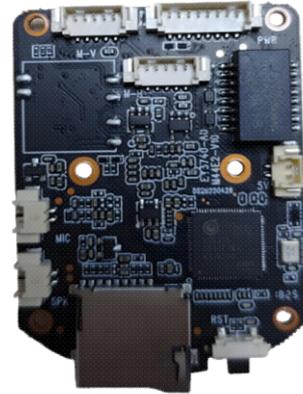




# E7540Y-V0

## Features

- 1/3" 4MP CMOS
- H.265+, H.265/H.264, dual stream
- Supports backlight compensation, highlight compensation, and 3D digital noise reduction
- Supports image flip, mirror, and rotation
- Supports dual light and smart dimming
- Supports TF card, dual stepper motors, WiFi and wired network
- Supports accurate human detection and vehicle detection; Applicable to scenarios including electronic fence, intrusion detection and on-duty detection etc.
- Supports privacy mask
- Supports voice intercom, voice broadcast, custom voice
- ONVIF Profile S, T, G, M
- Compatible with Tuya Smart App
- Plug-in free for mainstream browsers
- Supports Browser-based Mesh CMS
- DC 12V/5V



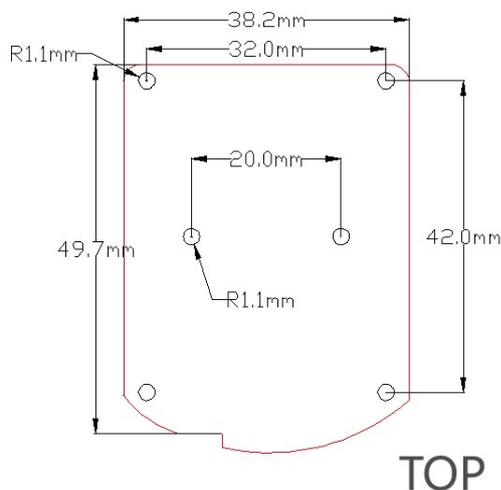
## Specifications

|                     |  |
|---------------------|--|
| <b>Model</b>        | E7540Y-V0  |
| <b>Main Chip</b>    | 37X, built-in 0.5T/1T computing power  |
| <b>Image Sensor</b> | 4MP, 1/3" CMOS   |
| <b>Image Output</b> | Main stream 30FPS (2560*1440, 2304*1296, 1920*1080, 1280*720)  |
|                     | Sub stream 30FPS (640*360, 352*240)  |
|                     | Image effects: Auto white balance, backlight compensation, and adjustable hue/brightness/contrast/saturation/sharpness |
| <b>Audio</b>        | Standard: 1-channel MIC input, 1-channel built-in amplifier output (8Ω 1W/4Ω 2W)                                       |



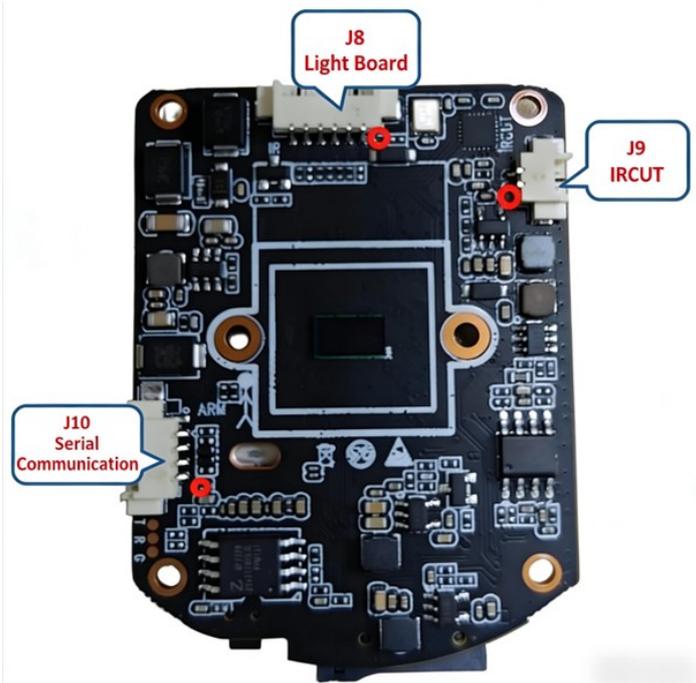
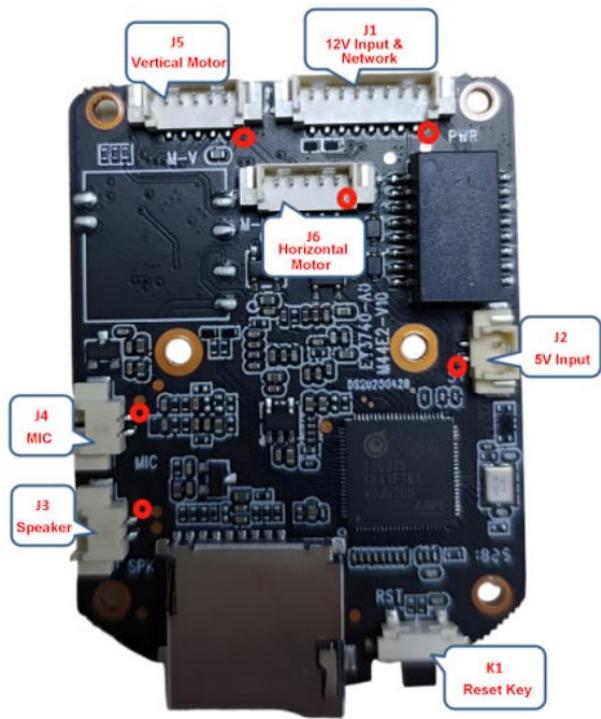
|                              |  |
|------------------------------|--|
|                              | G.711 codec; supports two-way audio intercom, audio-video synchronization, and echo cancellation   |
| <b>Network</b>               | 1 x RJ45 10/100 M self-adaptive Ethernet port  |
| <b>Motor Interface</b>       | Supports 360° pan-tilt rotation, supports multi-level speed regulation   |
| <b>TF</b>                    | 1× TF card slot, supports up to 512 GB   |
| <b>WIFI</b>                  | Supports Wi-Fi 4/6, dual-band, 802.11b/g/n/ax  |
| <b>Reset Key</b>             | Supports hardware reset  |
| <b>Light Board Interface</b> | Supports dual light and smart dimming  |
| <b>Serial Port Interface</b> | 1 x high-speed serial port   |
| <b>Indicator</b>             | Supports network connection status LED   |
| <b>Network Protocols</b>     | TCP/IP, ICMP, HTTP, HTTPS, FTP, DHCP, DNS, DDNS, RTP, RTSP, NTP, UPnP, SMTP, IGMP, 802.1X, IPv4, IPv6, UDP, SSL/TLS, SNMP, ARP, WebSocket, ONVIF   |
| <b>Standard</b>              | Human & vehicle classification (including non-motor vehicles), boundary detection, intrusion detection, region entering detection, region exiting detection and sound alarm linkage  |
| <b>Optional</b>              | Face capture, face recognition, pet detection, lane violation control, license plate recognition, baby detection, abnormal sound detection, occlusion detection, electronic fence, off-post detection, people counting, custom voice alarm |
| <b>Power Supply</b>          | DC 12V/5V power input  |
| <b>Operating Conditions</b>  | -30°C~+65°C (-22° F to +149° F), ≤95%RH  |
| <b>Dimension</b>             | Board: 38 x 52 mm, board thickness 1.6 mm  |

## Board Size





# Main Board



---Note:The circle point to pin 1

## Interface Descriptions

J1 (Vertical SMT-8P-1.25MM) -----12V Power and Network Interface

| Pin | Name     | Function   |
|-----|----------|--|
| 1   | 12V_VIN  | DC 12V IN <span style="float:right">---When 5V is input, this pin is NC</span> |
| 2   | GND      | GND  |
| 3   | RX-      | Receive Data-  |
| 4   | RX+      | Receive Data+  |
| 5   | TX-      | Transmit Date-   |
| 6   | TX+      | Transmit Date+   |
| 7   | LED_LINK | Network Link LED   |
| 8   | RST      | Hardware Reset   |

J2 (Vertical SMT-2P-1.25MM) -----5V Input Interface

| Pin | Name   | Function   |
|-----|--------|--|
| 1   | 5V_VIN | 5V Power Input <span style="float:right">---When 12V is input, this pin is NC</span> |
| 2   | GND    | GND  |

J3 (Horizontal SMT-2P-1.25MM) ----Speaker Interface

| Pin | Name | Function          |
|-----|------|-------------------|
| 1   | SPK+ | Speaker+(8 Ω 1W)  |
| 2   | SPK- | Speaker- (8 Ω 1W) |

J4 (Horizontal SMT-2P-1.25MM) ----**MIC0 Interface**

| Pin | Name | Function   |
|-----|------|------------|
| 1   | MIC0 | MIC0 Input |
| 2   | GND  | GND        |

J5 (Vertical SMT-5P-1.25MM) ----**Vertical Motor Interface**

| Pin | Name     | Function                 |
|-----|----------|--------------------------|
| 1   | 5V_MOTOR | Motor Common Terminal    |
| 2   | V01+     | Vertical Motor Drive 01+ |
| 3   | V01-     | Vertical Motor Drive 01- |
| 4   | V02+     | Vertical Motor Drive 02+ |
| 5   | V02-     | Vertical Motor Drive 02- |

J6 (Vertical SMT-5P-1.25MM) ----**Horizontal Motor Interface**

| Pin | Name     | Function                   |
|-----|----------|----------------------------|
| 1   | 5V_MOTOR | Motor Common Terminal      |
| 2   | H01+     | Horizontal Motor Drive 01+ |
| 3   | H01-     | Horizontal Motor Drive 01- |
| 4   | H02+     | Horizontal Motor Drive 02+ |
| 5   | H02-     | Horizontal Motor Drive 02- |

K1 (SMD Tact switch) ----**Factory Reset**J8 (Horizontal SMT-6P-1.25MM) ----**Light Board Interface**

| Pin | Name    | Function                                       |
|-----|---------|--|
| 1   | V_LED   | Light Board Power Output                       |
| 2   | GND     | GND  |
| 3   | IR_CTRL | IR Light Enable, Active High, PWM Supported    |
| 4   | WL_CTRL | White Light Enable, Active High, PWM Supported |
| 5   | ADC_DET | Photosensitive Detection (CDS, 3.3 V domain)   |
| 6   | LED_S   | Network Status Indicator                       |

J9 (Horizontal SMT-2P-1.25MM) ----**IRCUT**

| Pin | Name   | Function     |
|-----|--------|--------------|
| 1   | IRCUT+ | IRC Switch + |
| 2   | IRCUT- | IRC Switch - |

J10 (Horizontal SMT-4P-1.25MM) ----**Communication Serial Port Interface**

| Pin | Name     | Function              |
|-----|----------|-----------------------|
| 1   | ALARM_IN | Alarm Input Interface |
| 2   | FUART_TX | Fast UART RX          |
| 3   | FUART_RX | Fast UART TX          |
| 4   | GND      | GND                   |