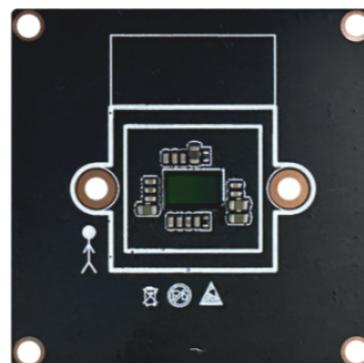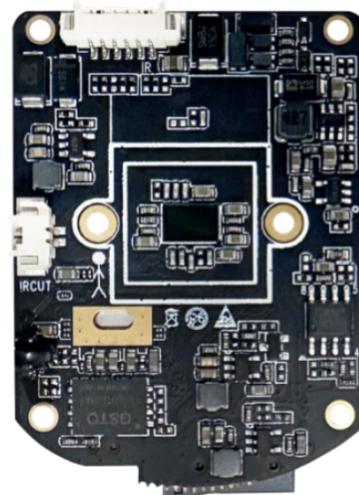# E7744S-V1

Features

- 1/3" dual 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
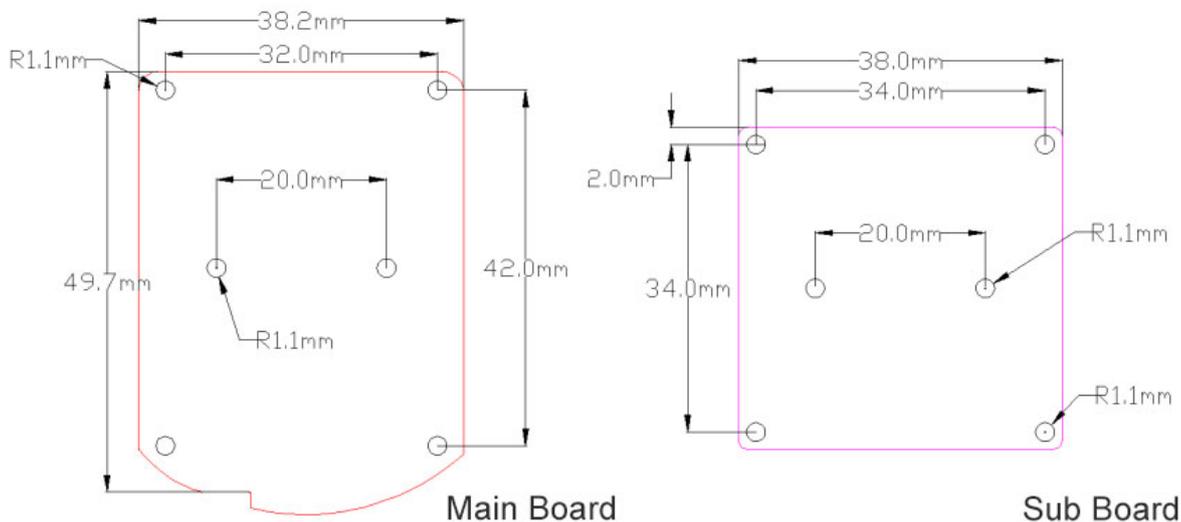
- Supports Browser-based CMS

- DC 12V/5V

Specifications

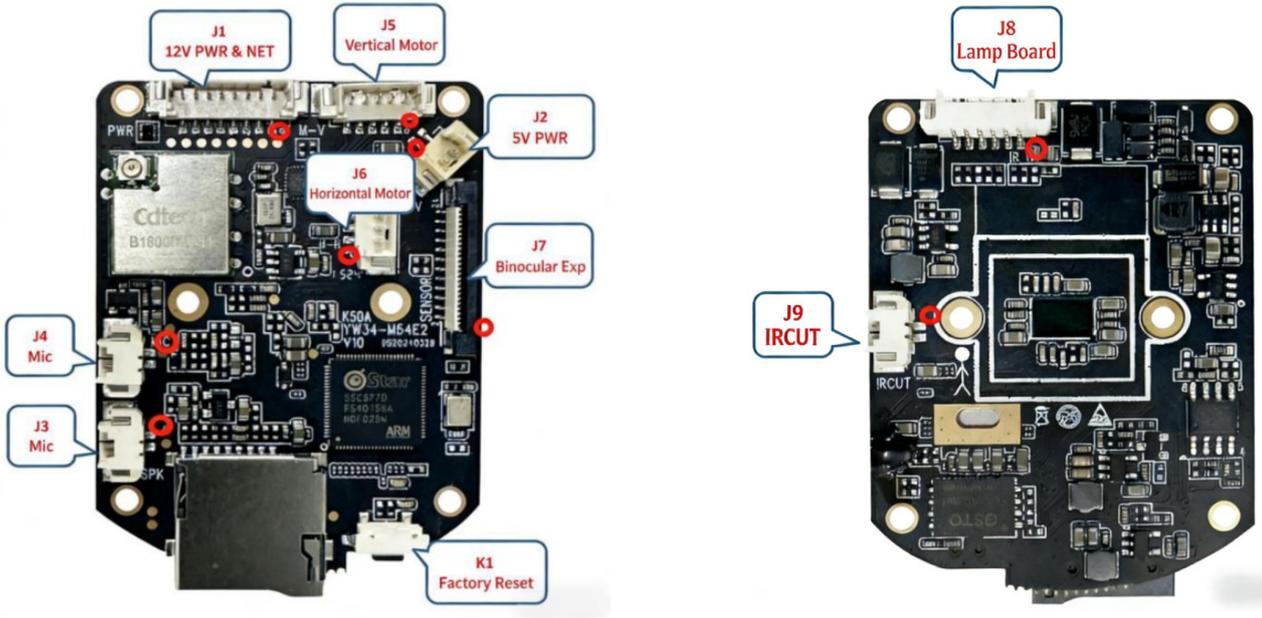| Model	E7744S-V1
Main Chip	37X, built-in 1T computing power
Image Sensor	Dual 4MP, 1/3" CMOS
Image Output (Main & Sub Board)	Main stream 30FPS (2560*1440, 2304*1296, 1920*1080, 1280*720)
	Sub stream 30FPS (640*360, 352*240)
	Image effects: Auto white balance, backlight compensation, and adjustable hue/brightness/contrast/saturation/sharpness

Audio	Standard: 1-channel Line In input, 1-channel built-in amplifier output (8Ω1W/4Ω2W)
	G.711 codec; supports two-way audio intercom, audio-video synchronization, and echo cancellation
Network	1 x RJ45 10/100 M self-adaptive Ethernet port
Motor Interface	Supports 360° pan-tilt rotation, supports multi-level speed regulation
TF	1× TF card slot, supports up to 512 GB
WIFI	Supports Wi-Fi 4/6, dual-band, 802.11b/g/n/axGB
Reset Key	Supports hardware reset
Light Board Interface	Supports dual light and smart dimming
Indicator	Supports network connection status LED
Network Protocols	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
Standard	Human & vehicle classification (including non-motor vehicles), boundary detection, intrusion detection, region entering detection, region exiting detection and sound alarm linkage
Optional	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
Power Supply	DC 12V/5V power input
Operating Conditions	−30℃～+65℃(−22°F to +149°F), ≤95%RH
Dimension	Main board: 38 x 52 mm, sub board: 38 x 38 mm, board thickness 1.6 mm

Board Size

Main Board   Sub Board

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 ---When 5V is input, this pin is NC
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 ---When 12V is input, this pin is NC
2	GND	GND

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

Pin	Name	Function
1	SPK+	Speaker+(8Ω1W）
2	SPK-	Speaker- (8Ω1W）

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-

J7 （Vertical Dual Row 24pin FPC） ----**External Dual Sensor**

K1 （SMD Tact switch） ----**Factory Reset**

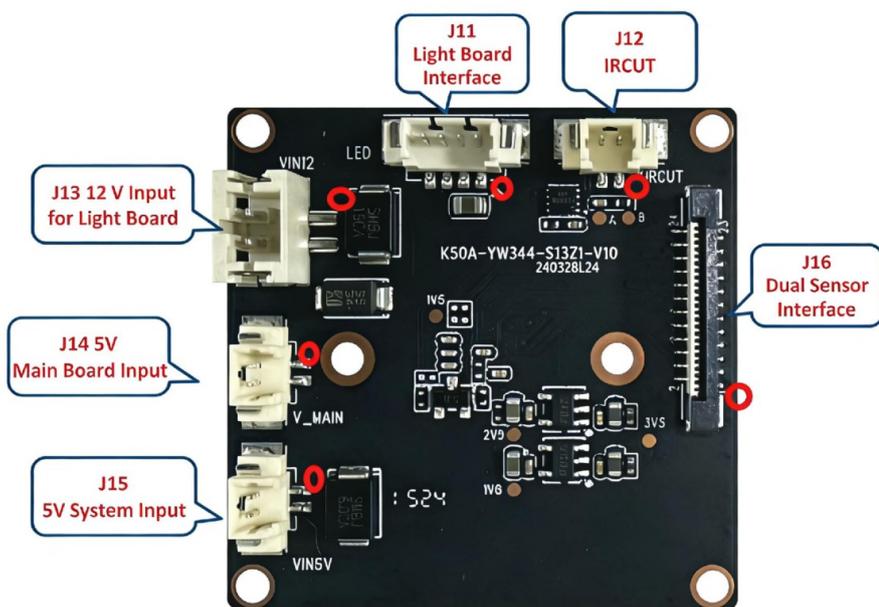J8 （Horizontal SMT-6P-1.25MM） ----**Light Board Interface**

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 -

Sub Board

---Note:The circle point to pin 1

J11（Vertical SMT-4P-1.25MM）----**Light Board Interface**

Pin	Name	Function
1	VLED	Light Board Power, Supplied by J13.1 or 15.1
2	GND	GND
3	IR_CTRL	IR Light Enable, Active High, PWM Supported
4	WL_CTRL	White Light Enable, Active High, PWM Supported

J12（Vertical SMT-2P-1.25MM）----**IRCUT**

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

J13（Vertical SMT-2P-2.0MM）----**12 V Input for Light Board**

Pin	Name	Function	
1	12V	12 V Input for Light Board	---When 5V is input, this pin is NC
2	GND	GND	

J14（Vertical SMT-2P-1.25MM）----**5V Output for Main Board**

Pin	Name	Function	
1	5V	5V Output for Main Board	---When 12V is input, this pin is NC
2	GND	GND	

J15（Vertical SMT-2P-1.25MM）----**5V Input for System**

Pin	Name	Function	
1	5V	5V Input for System	--When 12V is input, this pin is NC
2	GND	GND	

J16（Vertical Dual Row 24pin FPC）----**Dual Sensor Interface**