# S44-10

Features：

● Dual 1/3 inch Progressive Scan CMOS

● H.265+、H.265、H.264+、H.264 Video Compression

● Supports backlight compensation, strong light suppression, 3D digital noise reduction

● Flip，Mirror，and Rotation with 90 or 270 degree

● Good night-time performance with Smart Supplement Light

● Support Wi-Fi 6

● Line crossing, intrusion, region entrance, region exiting

● Alarm triggering by human and vehicle

● Supports voice intercom, voice broadcast, custom voice

● Support 34 languages on the browser

● Browser plugin-free: supports Edge, Chrome, Safari, Firefox and other mainstream browsers

● Supports image masking to protect private areas.

● Support ONVIF, can be connected to third-party NVR

● Support Mesh CMS functionality on the browser

● 12VDC or 5VDC
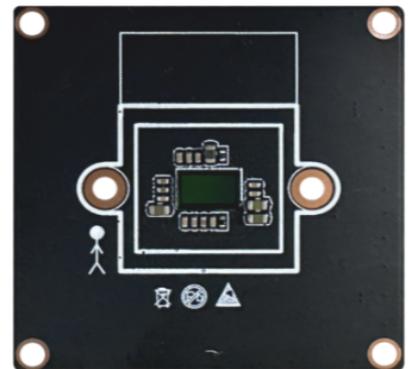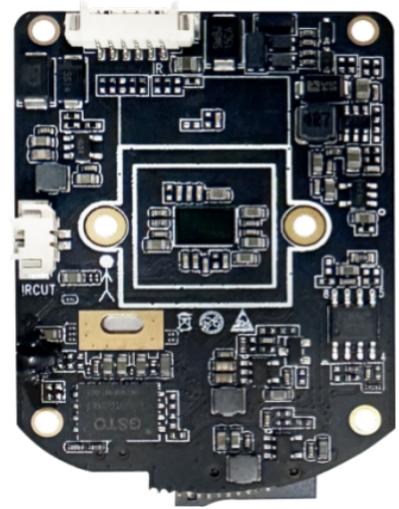
| Product model	S44-10
SOC processor	SSC37X，built-in 1T computing power
Image Sensor	Dual 4M,1/3″ Progressive Scan CMOS
Video main Sensor sub-Sensor	Main Stream 30FPS(2560*1440,2304*1296,1920*1080,1280*720)
	Sub-Stream 30FPS(640*360,352*240)
	Image effects: Automatic white balance, support for digital wide dynamic range, support for backlight compensation, adjustable brightness, contrast, and chroma parameters.

Network	1 RJ45 10 M/100 M self-adaptive Ethernet port
	Protocols:TCP/UDP/IP/HTTP/RTSP/DHCP/P2P/ONVIF
Motor	2 channels STM driver　64 u-step driving
WIFI	IEEE802.11b/g/n/ax　2.4G
Smart Supplement Light	Infrared/white light control by electrical level or PWM
	Adjustable brightness depend on Sensor or photoresistor
TF	Yes
Reset Key	Yes
Network indicator light	Yes
Emc	GB/T17626.5，IEC61000-4-5
Intelligent applications	Face Capture: Enables configurable detection zones. When a face is detected within the designated area, an alarm is triggered based on predefined conditions.
	Face Recognition: Employs a local face database for recognition with a precision rate exceeding 99.9%.
	Pet Monitoring: detect and track pets, specifically cats and dogs.
	Traffic Surveillance: Detects vehicle congestion and provides traffic statistics.
	License Plate Recognition: Identifies and recognizes common license plates with an accuracy rate surpassing 99.8%.
	Infant Monitoring: Provides real-time monitoring of a baby's cries with event reporting.
	Noise Detection: Monitors high-decibel barking sounds in real-time and generates event reports.
	Obstruction Detection: Detects obstructions in specified areas of the image and reports obstruction events based on trigger conditions.
	Perimeter Security: Alerts upon human or vehicle intrusion into designated alarm zones.
	Boundary Crossing Detection: Identifies human movement with directional detection capabilities (A->B, B->A, and A<->B).
	Absentee Detection: Triggers alarms when personnel leave designated areas for a defined period, automatically ceasing upon their return.
	People Counting: Counts individuals entering and exiting, displaying real-time overlays on the image, and providing daily data.
	Voice Alerting: Links with voice broadcasting systems, allowing customizable recorded messages for alerts.
Power	12 VDC or 5VDC
Operating Conditions	-30℃~65℃
Dimension	Main Board：38*52mm　Sensor Board：38*38mm

Board

MAIN

SUB

Main board

J1 J5 J8 J2 J6 J7 J4 J3 J9 K1
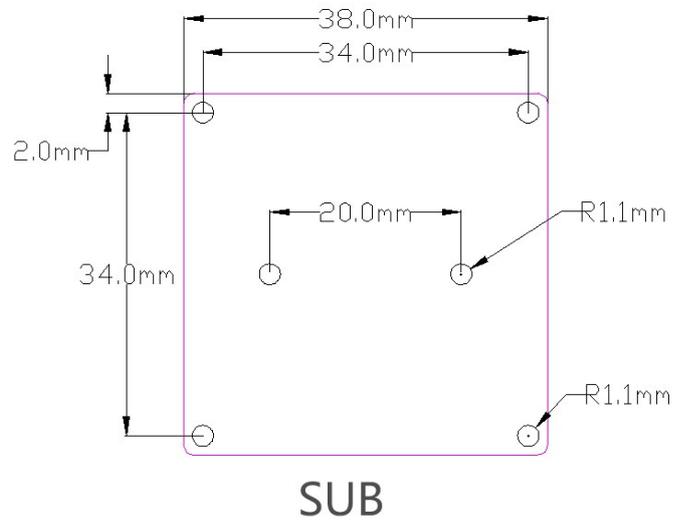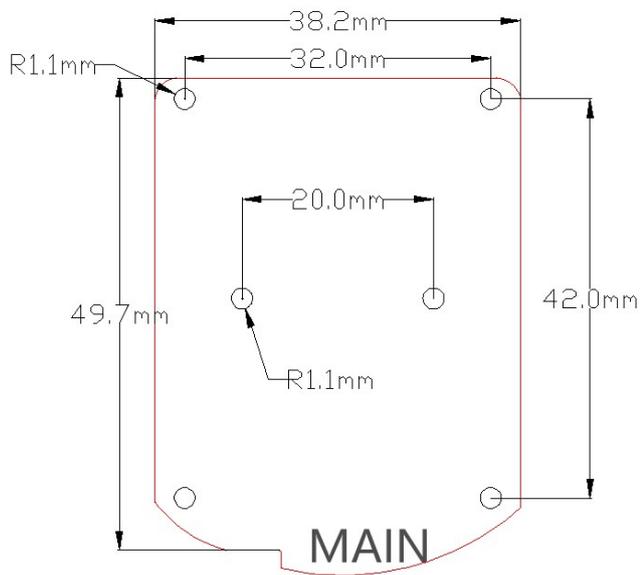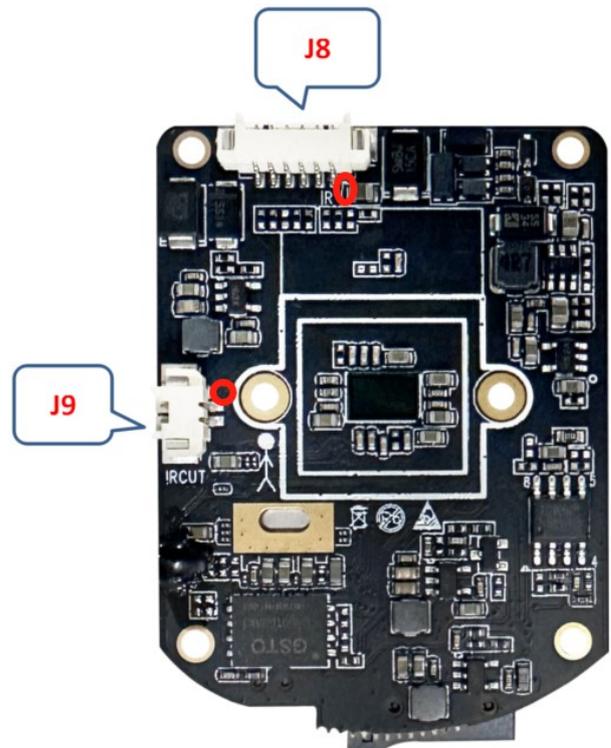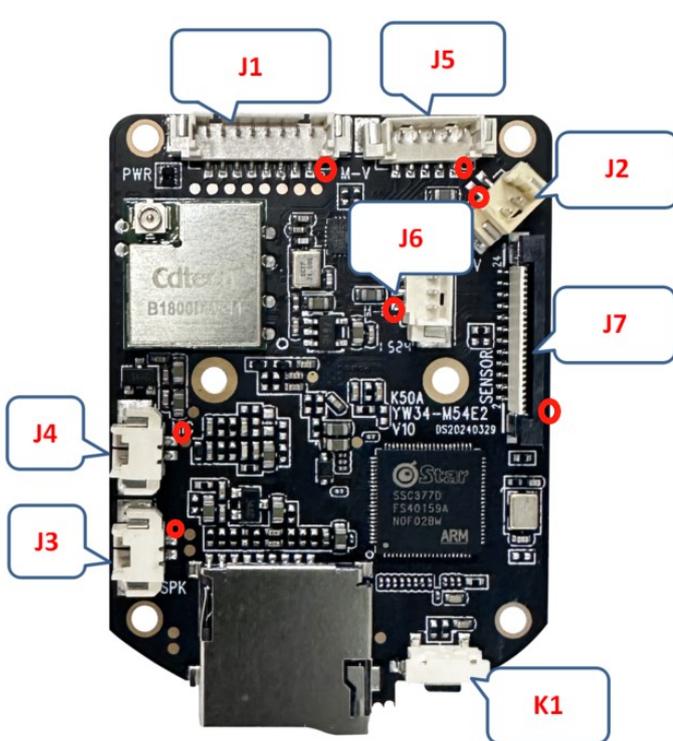
Note:The circle point to pin 1

Interface Description：

J1（SMT-8P-1.25MM-V）-----**12V Power and ETH**

Pin	Name	Function	
1	12V_VIN	12 VDC IN	---not used when 5V input
2	GND	GND	
3	RX-	Receive Data- 6	
4	RX+	Receive Data+ 3	
5	TX-	Tranceive Date- 2	
6	TX+	Tranceive Date+ 1	
7	LED_LINK	Network indicator light	
8	RST	Factory recovery	

J2（SMT-2P-1.25MM-V）-----**5V Power**

Pin	Name	Function	
1	5V_VIN	5 VDC IN	---not used when 12V input
2	GND	GND	

J3（SMT-2P-1.25MM-H）----**Speaker**

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

J4（SMT-2P-1.25MM-H）----**MIC**

Pin	Name	Function
1	MIC0	Line in
2	GND	GND

J5（SMT-5P-1.25MM-V）-----**Vertical motor**

Pin	Name	Function
1	5V_MOTOR	Motor_COM
2	V01+	Motor V01+
3	V01-	Motor V01-
4	V02+	Motor V02+
5	V02-	Motor V02-

J6（SMT-5P-1.25MM-V）-----**Horizontal motor**

Pin	Name	Function
1	5V_MOTOR	Motor_COM
2	H01+	Motor H01+
3	H01-	Motor H01-
4	H02+	Motor H02+
5	H02-	Motor H02-

J7（SMT-2*12P-0.5MM-FPC）----**Panoramic**

K1（KEY-H）----Factory recovery

J8（SMT-6P-1.25MM-H）----**Supplement Light**

Pin	Name	Function
1	12V_L	12 VDC Output for Supplement Light
2	GND	GND
3	IR_CTRL	Infrared light enable,active high,usable PWM
4	WL_CTRL	White light enable,active high,usable PWM
5	ADC_DET	Photoresistor for ambient brightness detection
6	LED_S	Network indicator light,same as J1.7

J9（SMT-2P-1.25MM-H）----**IRCUT**

Pin	Name	Function
1	IRCUT1+	IRCUT1+
2	IRCUT1-	IRCUT1-

Sub-board
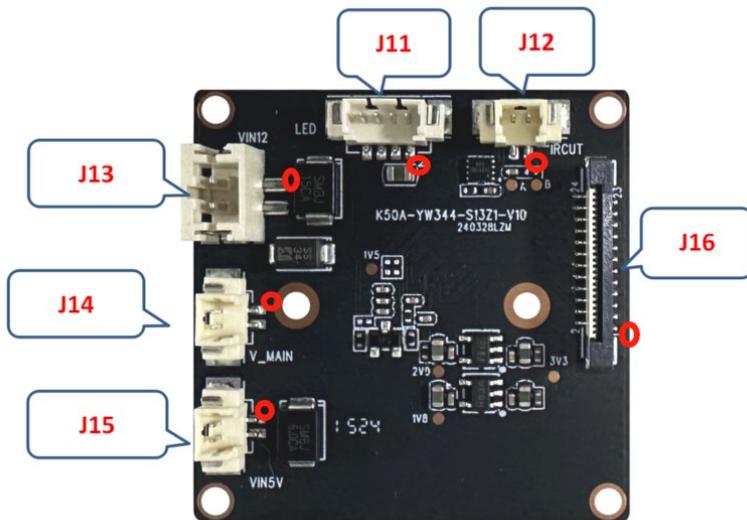
Note:The circle point to pin 1

J11（SMT-4P-1.25MM-V）----**Supplement light for the second sensor**

Pin	Name	Function
1	VLED	12/5 VDC Output for Supplement Light
2	GND	GND
3	IR_CTRL	Infrared light enable,active high,usable PWM,same as J6.3
4	WL_CTRL	White light enable,active high,usable PWM,same as J6.4

J12（SMT-2P-1.25MM-V）----**IRCUT2**

Pin	Name	Function
1	IRCUT2+	IRCUT2+
2	IRCUT2-	IRCUT2-

J13（SMT-2P-2.0MM-V）----**12V Supplement light power**

Pin	Name	Function	
1	12V	12 VDC input for Supplement Light	---not used when 5V input
2	GND	GND	

J14（SMT-2P-1.25MM-V）----**5V power output**

Pin	Name	Function	
1	5V	5 VDC out	---not used when 12V input
2	GND	GND	

J15（SMT-2P-1.25MM-V）----**5V power input**

Pin	Name	Function	
1	5V	5 VDC in	---not used when 12V input
2	GND	GND	

J16（SMT-2*12P-0.5MM-FPC）----**Panoramic**