



Thermal Tablet

VPAD L02TC

Hardware datasheet

Singapore | Zhuhai | Hong Kong | Macao
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Model: VPAD L02TC

Main Features:

- Support real time live detection
- Support human body temperature measurement and high temperature alarm
- Support temperature data interface protocol docking
- Support tracking of personnel movements under strong backlight conditions
- Unique live face recognition algorithm to accurately recognize faces, face recognition time is less than 0.5s
- Built-in domestic CPU
- Using Linux operating system, better system stability
- The camera uses H.265 Main Profile encoding.
- Support TF card storage in the future.(depends on TF card capacity, this function still have not ready, only a Reserved interface for hardware)
- Mean time between failures MTBF>50000 H
- Support 24000 face matching library and 160,000 face recognition records
- Rich interface protocol, support TCP/IP, UDP, RTP, RTSP, RTCP, HTTP, DNS, DDNS, DHCP, SMTP, UPNP, MQTT protocol, Windows/Linux
- Built-in light sensor, automatically adjust the opening and closing of the fill light
- Rich hardware interface (I/O, WG26, WG34, RJ45, USB)
- 8-inch IPS full-view HD display, no streaking and delay
- Support automatic gain control and automatic white balance
- 3D noise reduction and fog-passing technology makes the monitoring picture under low illumination more clear and delicate
- Support code stream and I frame interval setting
- Support video area partial blocking
- Support ROI coding
- Support setting maximum exposure time
- Support 2D noise reduction, 3D noise reduction
- Support recording schedule time period and upload mode setting
- Support video brightness, contrast, hue, saturation, gamma adjustment



- Support setting the maximum auto exposure time
- Support face intelligent exposure, face smart enhancement setting
- Card Reader(RF): The device built-in IC card reader, 13.56MHz IC or ID card (CPU、Mifare、NFC)

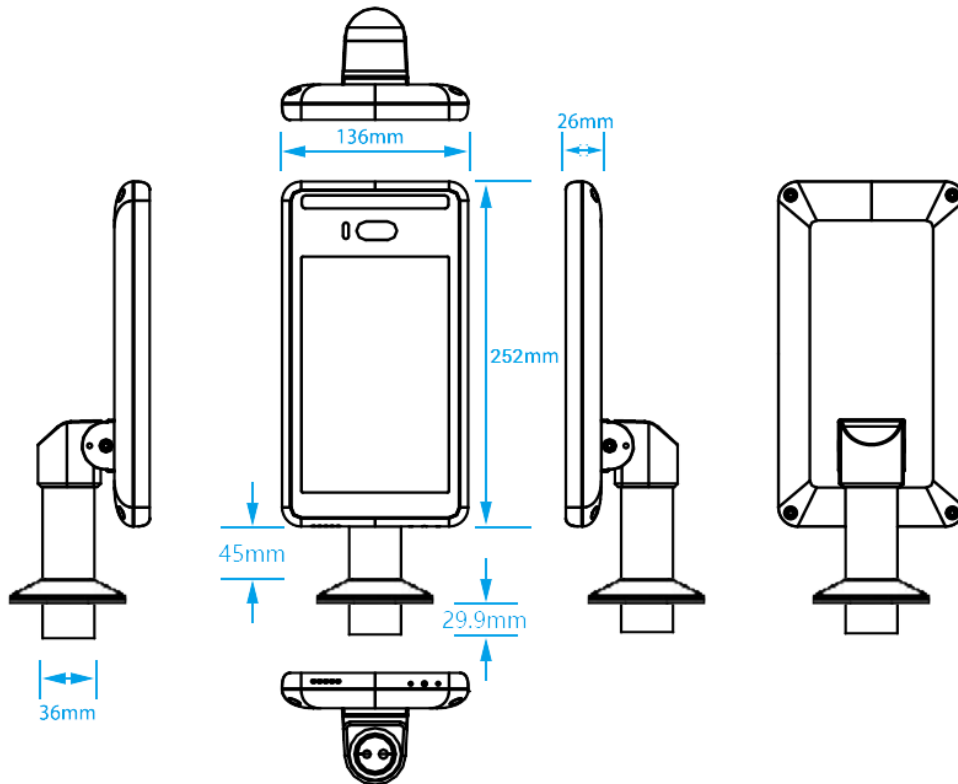
Specifications:

Model	VPAD L02TC
Hardware	
Processor	Dual Core Processor (Hi3516D V300) + 1G memory + 16G flash
Operating system	Linux Operating system
Storage	Support TF card storage in the future (only hardware interface reserved)
Viewing angle	Vertical viewing angle: 30°; Horizontal viewing angle: 30°
Sensor	1/2.8" Progressive Scan CMOS(IMX307)
Lens	6mm
Card Reader(RF):	built-in IC card reader, 13.56MHz IC or ID card (CPU、Mifare、NFC)
Speaker	voice playback content can be customized
Temperature measurement performance	
Measurement Environment	16°C - 40°C (Indoor without wind, please refer to the end of the file)
Temperature measurement Lens	European original lens
Sensors type	Infrared Thermopile Medical-grade European imported sensors
Measurement accuracy	±0.3°C
Temperature resolution	0.1°C
Temperature measurement distance	≤40cm
Measurement response time	300ms

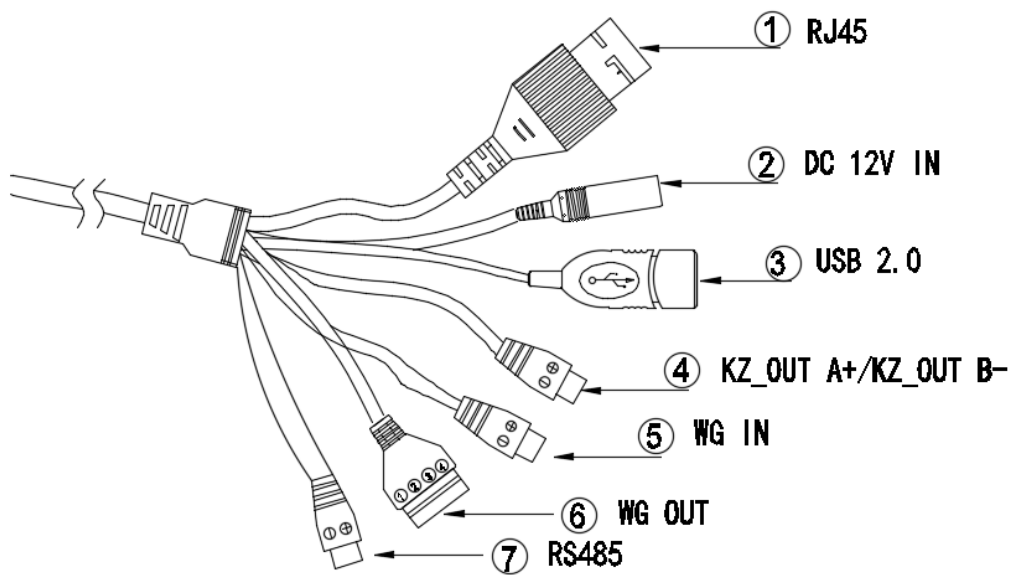
Performance	
Recognition height	1.2~2.2 meters, angle adjustable
Recognition distance	0.3~1.5 meters, depends on lens
Recognition time	Less than 0.5 seconds
Storage capacity	160,000 capture records
Face capacity	24000pcs
Screen brightness	≥400 cd/m2
Interface	
Switching output	1 way switch output, other GPIO port can be customized
Network interface	1 RJ45 10M / 100M adaptive Ethernet port, Gigabit Ethernet port can be customized
Wiegand interface	1ch Wiegand interface input/output
RS485	There is an RS485 interface on the PCB board, but no lead
USB interface	1ch USB interface
Camera	
Camera	Dual cameras
Effective pixels	2MP, 1920*1080
Min Illumination	Color 0.01Lux @F1.2(ICR);B/W 0.001Lux @F1.2 (ICR)
SNR	≥50db(AGC OFF)
WDR	120db, ISP algorithm face partial exposure
Resolution	Main Stream: 50HZ: 25fps (1920*1080,1280*720) 60HZ: 30fps (1950*1080,1280*720)
	Sub Stream: 720*576, 1-25(30)fps; 640*480, 1-25(30)fps; 320*240,1-25(30)fps;
Function	
Web side configuration	support
remote upgrade	support

Regular	
Working humidity	0~90% relative humidity, no condensation
Salt spray	level Rp6 or above
Antistatic	contact $\pm 6\text{KV}$, air $\pm 8\text{KV}$
Powered	DC12V/2A
Device power	20W(MAX)
Column aperture	36mm
Equipment size	252 (L) * 136 (W) * 26 (T) mm
Screen size	8 inches IPS HD screen
Weight	1.7 kg

Installation:



Interface:



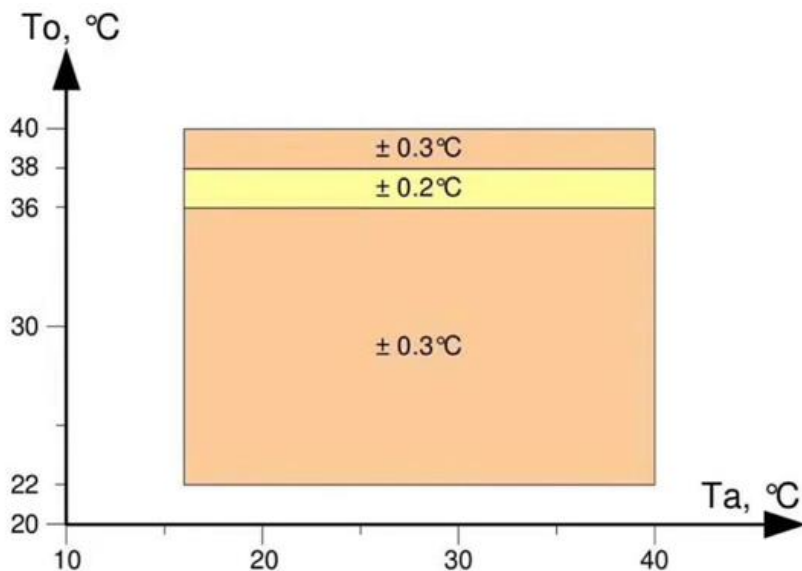
No.	Name	Quantity	Remark
1	Network	1	RJ45
2	Power	1	DC12V IN
3	USB	1	USB 2.0
4	Switch Output	1	Switch output interface A+/B-
5	Wiegand protocol input interface	1	① vcc12V ② GND ③ D0 ④ D1
6	Wiegand protocol output interface	1	① vcc12V ② GND ③ D0 ④ D1
7	RS485	1	① 485- ② 485+

Temperature Objective

(Temperature measurement accuracy $\pm 0.3^{\circ}\text{C}$)

Attention:

1. The temperature measuring device should be used in a room with no ventilation and room temperature between 16°C - 40°C .
2. The temperature measurement accuracy will affect if people entering indoors from a cold outdoor environment.
3. Please warm the temperature measuring device up for 10 minutes before testing.
4. Please make sure that there is no heating source or air conditioning vent within 3 meters of the device.
5. Please taking temperature after leaving the forehead unobstructed for three minutes indoors when the temperature is stable.
6. Please do not exposure forehead under the situation such as showers, hair dryers, sprays, etc.



It will affect the measurement.

7. The forehead temperature will be lower than the actual temperature if there is oil on the forehead, makeup, oxygen mask, or wrinkles in the elderly.

8. Please make sure there is no hair or clothing covering the area where the projection is located



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