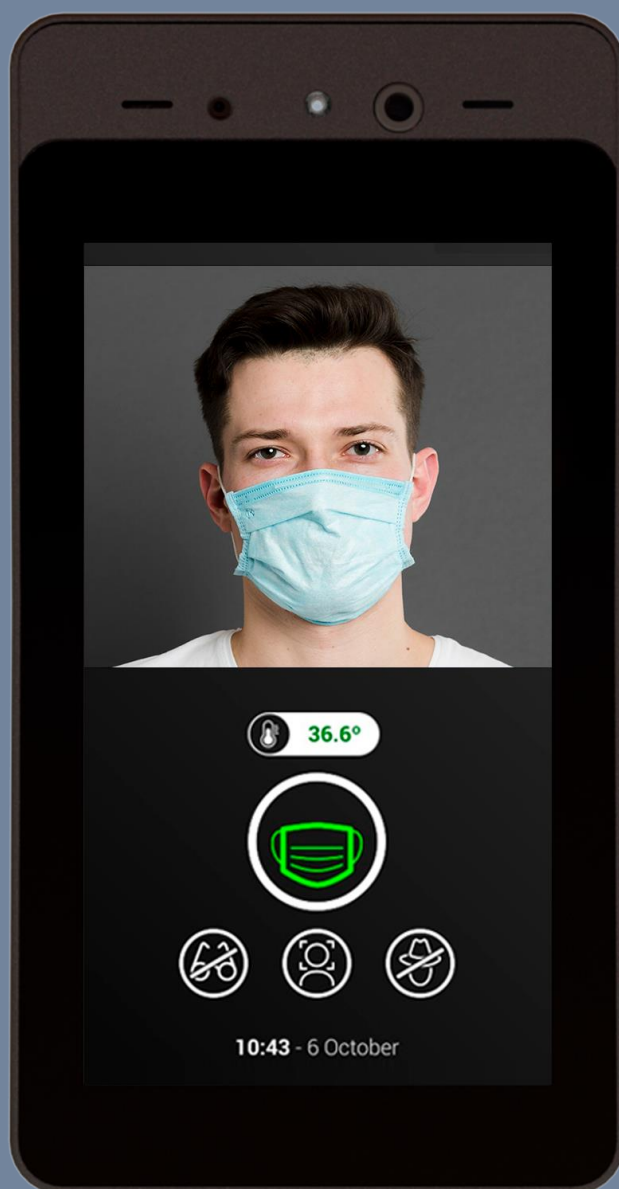


ara

Temperature and Mask
Detection for a safer world



DESIGNED TO PROTECT

Key to adapt to the “new normal” and practice a preventive mindset as temperature is a key indicator of COVID-19 and Masks avoid the spreading of the virus, ARA is the perfect tool to ensure the safe operation of Businesses, Schools, and other Public and Private Entities.



Product Specifications

General

Casing Material	PLA 3D printed
Power input type	DC 5V 3A (5.5x2.1mm jack)
Relay Output	2 X 30V 550mA (Independent)
Ethernet	Gigabit Ethernet
Wifi	No
USB	2 X USB 3.0 ports; 2 X USB 2.0 ports
Ventilation	Yes, internal fan
Dimensions	218.5 X 113.3 X 34 mm
Vesa mount	75 X 75 mm
Support plate fixing holes	70 mm
Weight	Approximately 500g
Operating Temperature	0 - 50 °C
Storage Temperature	-30 - 80 °C
Accessories	Power supply included
Mask detection	Glasses and hat not permitted

Temperature Sensor

Sensor Type	Digital non-contact Infrared
Max. sense distance	30 cm
Accuracy	0.5 °C
Resolution	0.1 °C

LCD

Type	LCD Display
Resolution	800 x 480
Colour	24-bit
Contrast Ration	500
Average Brightness	250 cd/m2
Viewing Angle	140-degree horizontal; 130-degree vertical
Active Area	155mm x 86mm
Touch Screen	218.5 X 113.3 X 34 mm
Backlight Lifetime	20000 hours

Camera

Resolution	8 Megapixels
Video Modes	1080p30, 720p60 and 640 Ö 480p60/90
Sensor	Sony IMX219
Sensor Resolution	3280 Ö 2464 pixels
Focal Length	3.04 mm
Horizontal Field of View	62.2 degrees
Vertical Field of View	48.8 degrees
Focal Ratio (F-Stop)	2.0

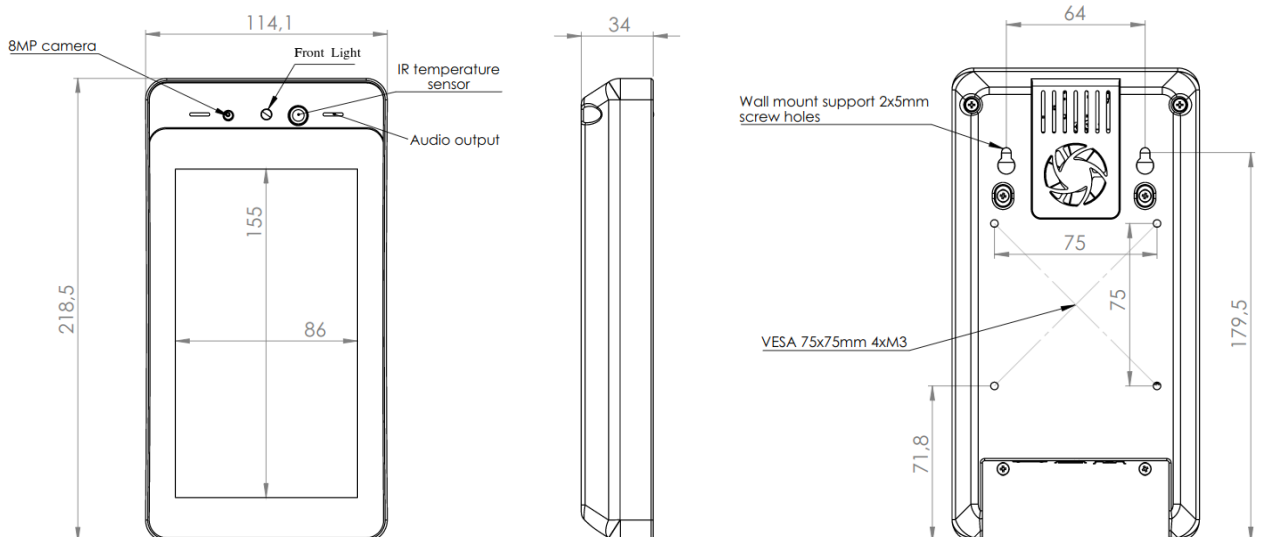
Speaker

Power	0.2 W
Impedance	8 Ω
Resonant Frequency	1500 Hz (at 1V)
Response	20000Hz
Distortion	10% (at 2 kHz, 0.2W)

Front Light

Type	LED
Emitted Colour	White
Viewing Angle	Up to 180 degrees
Luminous Intensity (IV)	9000 mcd.

Technical Drawing



Product Viewing

Front View



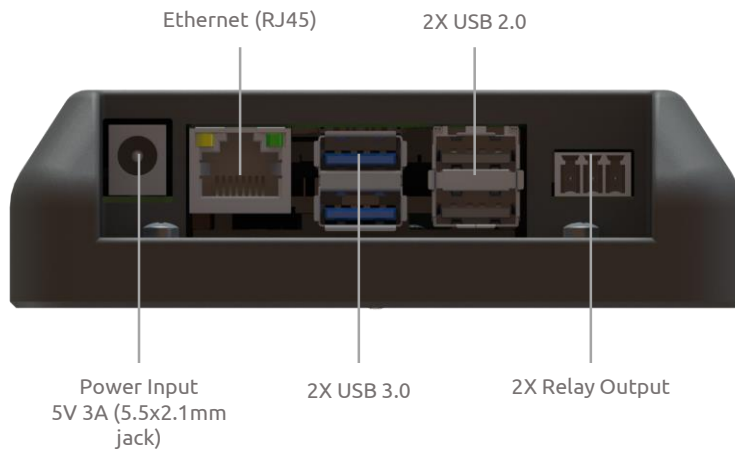
Note: There are two holes for speaker, for cosmetics reasons, but only one of them has a speaker.

Product Viewing

Back View



Bottom View

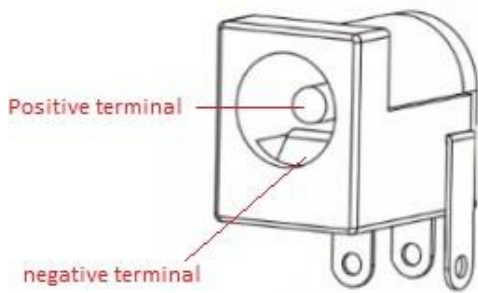


Product Electrical Specifications

Electrical Specifications

Power Input	5V 3A DC (Jack 5.5x2.1mm)
Power consumption@Work	Up to 1.55 A

Power Input Specifications



It is recommended the usage of the wall plug ac adapter. However, its applications were the power supply already exists, please be sure that the power availability and the input polarity are respected.

Relay Output Specifications



PIN 1	Output 1
PIN 2	Common
PIN 3	Output 2

Output	Idle	Temperature and Mask Detection OK	Temperature or Mask Detection not OK
1	Off	Off	On during 2 seconds
Common	Not applicable	Not applicable	Not applicable
2	Off	On during 2 seconds	Off