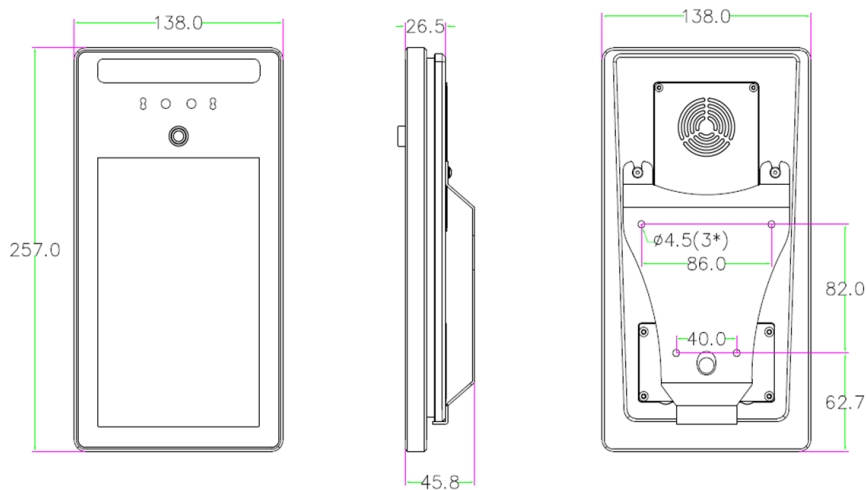




Dnamic Face Recognition and Thermometry Terminal(WS-W2000)



Dimension



Body Temperature Measurement Features

Using 8x8 Thermopile to capture the temperature of human body
Using 23Bit Cortex M0+48Mhz for main processor

Themopile Specification

FOV: 35 degree
Distance: 30-50cm(The error will be relative to distance)
Temperature range of human being: 32 - 41° in 0.2 - 0.5° accuracy

MCU Specification

NXP KL03 serial MCU
Cortex M0 + 32Bit/48Mhz
Support IO Interface: I2C, UART, SPI, GPIO
Support 12 bit ADC
Build-in RTC/PWM

Temperature Detection Specification

Distance: 30-50cm, Accuracy $\pm 0.2^{\circ}\text{C} \sim \pm 0.5^{\circ}\text{C}$
Detect the temperature of forehead
Auto-search the temperature of forehead in 2 seconds
Operation temperature(Room temperature): 15 - 30°C

Physical & Environment

Operation Temperature: 15 to 30°C
 Storage Temperature: -20 to 70°C
 Power Consumption: Max: 45mA@5V(Under indicator LED ON and RF transmission.)
 Normal: 12mA@5V (Normal mode)

Face Recognition Feature

Recognizable Face Angle: yaw $\leq \pm 45^\circ$, pitch $\leq \pm 90^\circ$
 Detection Speed: 20ms
 Tracking Speed: 5ms
 Comparing Accuracy: Extracting feature 150ms, Comparing < 1ms

Application



Model No.	WS-W2000
PHYSICAL	
Dimensions	257mm x 138mm x 26.5mm
Package Dimensions	365mm x 230mm x 80mm
Weight	1.35kg
Package Weight	1.8kg
Appearance Material	6061 Aluminum Alloy
CONFIGURATIONS	
Body Temp Measurement	8 x 8 Thermopile, Distance: 30-50cm, Accuracy $\pm 0.2^\circ\text{C} \sim \pm 0.5^\circ\text{C}$
CPU	ARM 4 Cores, Cortex-A17, 1.8GHz
RAM	2GB
Camera	RGM & AI Dual WDR Camera, Micron AR0230 sensors
Sockets	RS485, RS232, Wiegand26/34, TTL, On-off signal(D1, D0)
FUNCTIONS	
Facial Recognition	1:1, 1:N
Face Database Size	Up to 20,000
OPERATION	
Operating Temperatures	Face Recognition: -15 - 60°C Body Temperature Measurement: 15-30°C
Operating Humidity	Below:90%
Rated Voltage & Current	DC12-16V, 2A
Camera	RGM & AI Dual WDR Camera, Micron AR0230 sensors
Warranty	1 Year
*** Product specification are subject to change without notice ***	