

Fever screening  
Thermography Terminal

# EG-Keeper

Model Type: WDSEG01(BP)

## Specification 2.2

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### ■ Model Type: WDSEG01(BP)

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(BP): See P5 for the included metal fittings.



- Fast body temperature detection of 300ms per person Do.
- Adopted a new AI authentication system that can recognize faces even with a mask.
- Attribute output such as gender and age of the target person

## ■ Introduction

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This product is based on AI analysis using powerful computing power and facial recognition algorithms

EG-Keeper designed to detect the surface temperature of the forehead skin, so it can be used for quick and preliminary heat generation screening in office buildings.

It is also possible to identify the person wearing the mask, determine if it is a pre-registered person, and use it to unlock the door lock.

## ■ Appeal Points

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## ■ Features

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### ● High-sensitivity and high-speed thermal modules

The AI camera only determines the area of the forehead.

Vanadium oxide uncooled focal array

120 × 90 high-resolution thermal channels

Thermal measurement distance: 0.3 - 1.5m (optimal 0.7m)

Temperature accuracy: ±0. 2°C

Reliable thermal sensing

### ● Support for face recognition in the state of wearing a mask

Recognize faces without unmasking

Forehead temperature measurement within 100ms if there is no mask

Recognition accuracy when there is a mask > 92%

Recognition accuracy without mask > 99%

Real-time body surface anomaly detection

### ● Multi-interface

TCP/IP interface (Wi-Fi, with LAN), 12V contacts, etc.

## ■ Specifications

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Specification	Model Type: WDSEG01
Thermosensor	
Sensor type	Vanadium oxide uncooled focal Plane array
Number of pixels	10,000 pixels
Infrared IR Solutions	120 × 90@15fps
Temperature measurement distance	0.3 - 1.5m (Optimal 0.7m)
Temperature measurement accuracy	±0. 2°C, Depends on the environment
hardware	
Operation System	Linux
Storage memory	8GB EMMC+1G DDR4
LCD	7 inches, 1024 × 600 resolution

Optical sensors	
Image sensor	2 million effective pixels, 1920 × 1080
Signal S/N ratio	≥50db (AGC OFF)
Wide Dynamic Range	≥120dB
camera	Dual cameras, 650nm and 850nm NIR

Face Recognition Performance	
Spoofing	Face impersonation detection by infrared
Angle and height adjustment	It depends on the stand used.
Number of registrants	30,000 people
Face analysis speed	10 people/0.1 seconds
Authentication distance	0.3 - 1.5m (Optimal 0.7m)
wide-angle interface	Up and down about 30 degrees
Alarm Output	1 alarm output
power supply	DV12V
network interface	RJ45 10M / 100M Ethernet port
	Wi-Fi 2.4G(IEEE802.11n)
	4G (optional)
USB	USB 2.0
Wiegand Interface	special
exert oneself	
http	Recognition date and time, audience attributes, snap images
12V terminal	Face Recognition (0→12V)
Environmental specifications	
Save the temperature	-40°C~ + 60°C
Operating temperature	-20-40°C/ 15-35°C(not related to forehead temperature. )
Facial recognition / Temperature detection	IP54
Dustproof and waterproof	
electricity	Maximum Power <24W, 12V power supply
External dimensions	120mm × 226.5mm × 33.5mm
weight	845g

## ■ Algorithms

scenes	algorithm	explanation
Live face detection	Angle requirements	Yaw $\pm$ 30 degrees, roll $\pm$ 30 degrees, pitch $\pm$ 15 degrees
	Face requirements	Face size is more than 80 * 80 pixels in images
	Algorithm accuracy	99%@0.01% (accuracy rate is 99% under 0.01% false rate)
	Non-living category	Non-living detection for pictures, videos, coated paper, face fake models, etc.
Face detection and tracking	snapshot	More than 30 people / frame
	Snapshot frame rate	5fps
	Smallest face	30 $\times$ 30 pixels
	Adaptation angle	Yaw $\pm$ 45 degrees, roll $\pm$ 45 degrees, pitch $\pm$ 30 degrees
Face attribute recognition	Attribute content	Gender, age, glasses, expression (anger, calmness, happiness, sadness, surprise), mask, beard, race, hat detection, helmet detection http to contribute
	Algorithm accuracy	Age Accuracy ( $\pm$ 5 years): 85% Gender accuracy: 96% Beard accuracy: 97% Glasses accuracy: 98%. Mask accuracy: 92% Hat accuracy: 97%.

## ■ Application scenarios

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### ● Security and access control management

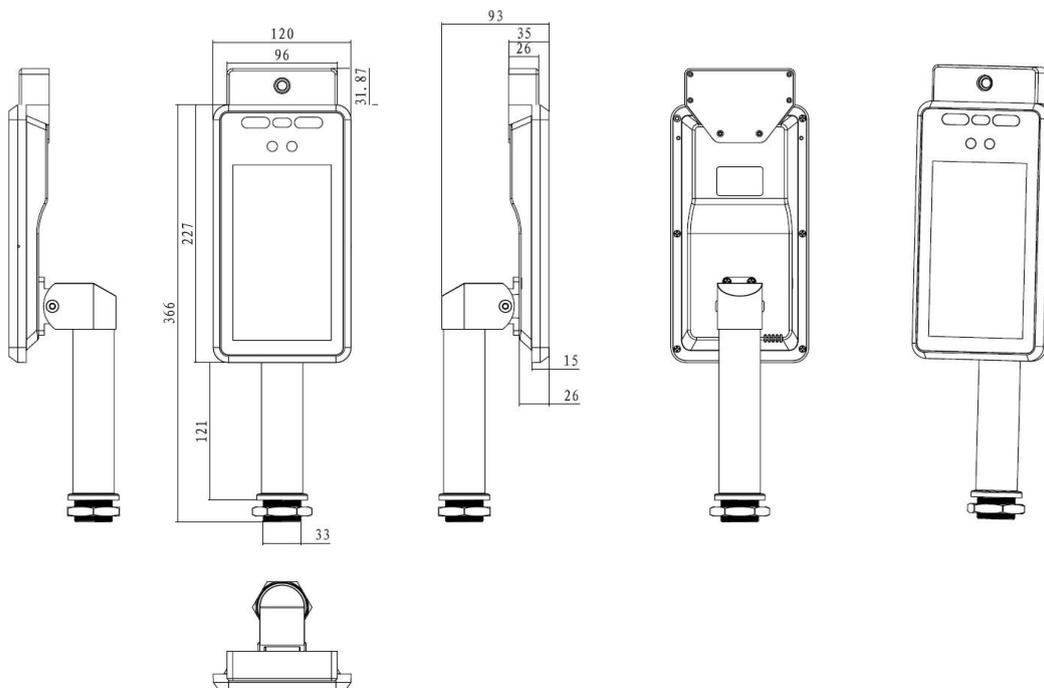
High-speed railway stations, airports, bus stops, subways, schools, companies

### ● Attendance and attendance confirmation

Company, school, etc.

## ■ Body External dimensions (mm)

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## ■ Mounting Bracket appearance and external dimensions (mm):

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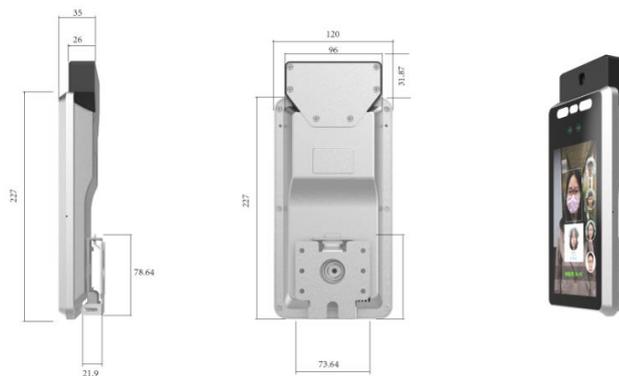
Body [WDSEG01 (BP)] and the metal fittings (pole brackets for stands, metal fittings for wall hangings, fittings for desktops) are the appearance and dimensions when attached to the main body.

### ① Pole bracket: Attached to the main body and shipped



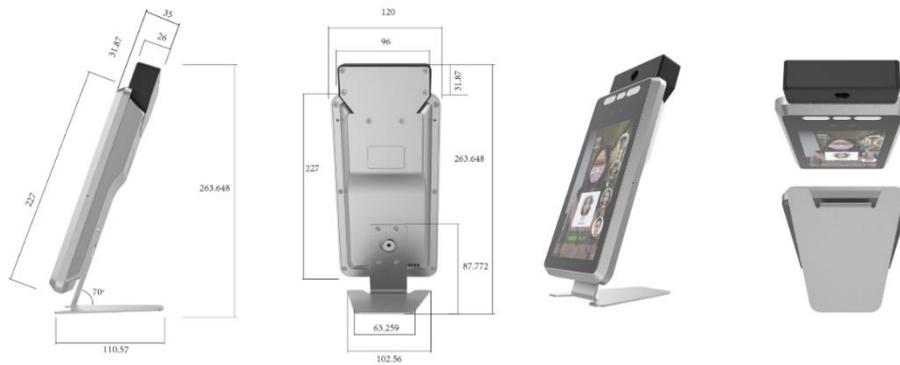
### ② Wall hanging metal fittings: Included with the main unit.

**Please install it by the customer**



### ③ Desktop fittings: Included with the main unit.

**Please install it by the customer.**



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