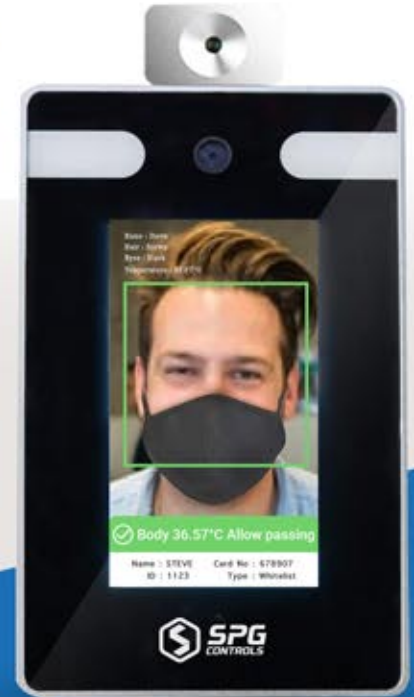


SPG Thermal Biometric Reader



SPG Thermal Biometric Reader uses next-generation AI facial recognition and body temperature detection technology. This ensures absolute no surface contact access using high-precision temperature detection on mask-wearing users.

It integrates high-speed image acquisition, face detection, face tracking and face contrast, and human body temperature detection.



Accurate Non-contact Temperature Measurement



Face Recognition with Mask Occlusion



Fast Recognition Speed



High-Temperature Alarm Display



Records Export



Strong Algorithm



Smart Fill Light



Voice Prompt

Benefits



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



Multi-factor authentication: Face + Card + Temperature



Personnel + temperature information log records export



High-precision face recognition with a face occlusion area configuration



Alarm raised when user temperature is 37.3°C or higher



Comprehensive enrolment and management using ARCO Platform

System Requirements

Facial Recognition

Technology	Face Tracking, Face Verification, Face Anti-Spoofing, Silent live detection
Dynamic Recognition	Supports 10,000 human faces
Recognition Accuracy	$\geq 99\%$
Recognition Time	$< 300\text{ms/person}$
Recognition Distance	0.5m-4m

Temperature Sensor

Technology	Non-contact infrared
Detection Distance	0.3-1m
Temperature Accuracy	$\pm 0.3^{\circ}\text{C}$
Field of View	$90^{\circ} \times 90^{\circ}$
Thermopile Array	32 x 32

Hardware

CPU	Quad-core A17, 1.8GHz
Sensor	1/2.7" CMOS Image Sensor
Display	7" TFT 1024 x 600, USB camera with 3M pixels, support HDR
Built-in memory	EMMC 8GB (Maximum support 128GB)
RAM	DDR-III 2GB (Maximum support 4GB)
Communications	FTP
USB interface	USB 2.0
Power Supply	Input: 100V-240V, Output: DC 12V / 2A
Operating Temperature	-20°C to 70°C
Operating Humidity	5%(0°C) to 95%(40°C)
Dimension	260mm x 160mm x 26mm



Description

Part Number	Product Code	Description
300142	SD1-FR-TPTS	Thermal Biometric Reader
300143	SD1-FRT-TPTS	Biometric Reader