

# Fever Scanner

## Portable Fever Detection System



NVTs Fever Scanner is a hand held / fixed mount temperature scanning system designed for mass fever screening in crowded public places. Fever Scanner is a non-contact camera system which enables the operator to scan individuals from 2-8 meters away.

Our HD visible and thermal cameras make it easy to detect and identify individuals with higher than normal temperatures. Screening for fever may contain or limit the spread of COVID-19 through identification of potential at risk individuals.

Fever Scanner combines advanced thermal, visible camera technology and human body temperature measurement algorithms to provide high resolution accuracy up to 8 meters away. Fever Scanner is equipped with high temperature alarms, auto time and temperature triggering. It supports automatic warning, photo taking and recording for up to 32 GB SD card storage. An external video output is provided for large screen-station monitoring.

NVTs Fever Scanner is ideal for epidemic prevention and spread of COVID-19 type viruses in public places such as schools, government buildings, vulnerable populations, airports, train stations, stadiums, and convention centers.

## High Accuracy Fever Scanner

Schools / Stadiums / Airports / Train Stations  
Hospitals / Supermarkets / Government  
Facilities and Nursing Homes



External Display

Scanner

Optional Black Body

## Features:

- Rugged Weatherproof Housing
- 2-8 meter Human Detection Range
- HD Visible Camera & Thermal Camera Fusion
- Touch Screen Display
- Accurate Single-Point & Multi-Point High Temp Alarms
- Black Body Option for Real-Time Temperature Calibration
- Intelligent Recognition & Detection Function
- Tripod Mount Adapter
- Built-in Analytic Software
- 8G-32G Supported Internal Micro SD Card Storage

## STANDARD ACCESSORIES

- Carrying Case • Battery • SD Card
- Video Cable • Power Adapter

# Fever Scanner Specifications

## IR DETECTOR

Type	Uncooled FPA
Resolution	160 x 120 / 384 x 288

## IMAGING

FOV/Minimum Focal Length	25° x 19°/0.1m (3.9 in)
Spatial Resolution	2.72mrad / 1.36mrad
NETD	≤0.05° C @30° C / ≤0.04° C @30° C ≤0.09° F @86° F / ≤0.07° F @86° F
Frame Rate	50/60 Hz
Focus	Auto / Electronic
Spectral Range	8-14 μm
CMOS	5 million pixels, CMOS, 2 built-in LEDs

## DISPLAY

LCD	8.9 cm (3.5 in) TFT color LCD, 640 x 480 Resolution Touch Screen
Image Display	Thermal / Visual / Fusion
Palette	11 Colors: iron-hot, rainbow, white-hot, black-hot, etc
Adjustment	Auto/Manual – contrast, brightness, auto gain

## MEASUREMENT

Measuring Range	-20° C - +350° C / -20° C - +650° C -4° F - +662° F / -4° F - +1202° C
Accuracy	±2° C (±3.6° F) or ±2% whichever is greater
Calibration	Auto / Manual
Mode	Up to 5 movable spots, up to 5 movable areas (highest, lowest, average), up to 2 movable lines, Isothermal analysis, temperature difference, temperature alarm, sound, color)
Settings	Date/time, temp unit °C/°F/°K, language, contrast/brightness, LCD backlight, IP address
Emissivity Correction	Variable from 0.01 to 1.0, or by predefined material values
Ambient Temp Correction	Auto
Atmospheric Transmittance	Automatic correction according to user input, object distance, relative humidity, ambient temperature

## STORAGE

Memory Cards	8G Micro, SD card, up to 32G supported
Storage	Manual/Auto (time or temperature triggering) storage of thermal/visible, fusion storage, thermal video, record thermal, visible and fusion of thermal and visible
Thermal Image Format	JPEG, thermal image with raw data, MPEG4, videos
Visible Light Image Format	JPEG, MPEG4, with fusion
Voice Annotation	60 seconds voice recording, stored with image (built-in microphone or via Bluetooth headset)
Text Annotation	Yes

## LASER

Laser Pointer	Class 2, 1mW/635nm Red
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## POWER SYSTEM

Battery Type	Rechargeable, Li-ion battery
Operating Time	4 hours continuous
Charging	Intelligent charging or random (AC power adapter or 12V DC power charging)
Power Saving Mode	Automatic sleep, automatic power off

## ENVIRONMENT

Operating Temperature	-15° C - +50° C (5° F - 122° F)
Storage Temperature	-40° C ~ +70° C (-40° F ~ 158° F)
Humidity	≤95% (Non-condensing)
Protection Class	IP54
Impact Resistance	25G, IEC68-2-29
Vibration Resistance	2G, IEC68-2-6
Drop Resistance	2 m (6.56 ft)

## PHYSICAL

Weight	0.98 Kg (2.16 lb)
Dimensions	230 mm x 105 mm x 245 mm (9 in x 4.1 in x 9.6 in)
Tripod	1/4 in -20-UNC

## INTERFACE

Power Interface	DC 12V / AC Adapter
Memory Card Slot	Micro SD (TF) Slot
Network Interface	Mini-USB, real-time transmission of RAW images by setting IP address
Wi-Fi	Wi-Fi built-in, real-time analysis of infrared images via mobile APP
Video Output	Yes, PAL/NTSC
Audio/Data Output	Bluetooth

## BLACK BODY

Temperature	37° C (98.6° F)
Accuracy	0.2° C (0.36° F)
Effective Radiation Plane	Ø80 mm (HT40), Ø70mm (other model)
Working Temperature	10° C ~ 35° C ≤ 80% RH (50° F ~ 95° F ≤ 80% RH)
Power	220 VAC 50 Hz
Effective Emission	0.96
Dimensions	(HT40) 249 x 173 x 191 mm (9.9 x 6.8 x 7.5 in) (other model) 154 x 133 x 152 mm (6.0 x 5.2 x 5.9 in)

This product is subject to export control laws and regulations of the United States government and fall under the control jurisdiction of either ITAR or EAR regulations.



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