VIKINGNORD™
GROUP

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VNG-Rapid

Professional Human Body Temperature Measurement System

Accurate Non-contact Fast

Product Description

The **VNG Rapid** is designed with a 2MP thermal imaging and an AI-based temperature measuring binocular bullet camera with integrated temperature measuring and visible light image sensors. The maximum output resolution of the visible light sensor can reach up to 1920x1080 at 30fps. The picture quality and the temperature measurement accuracy of the thermal images are remarkably high.

This product supports advanced H.265 main profile encoding technology to achieve lower bit-rate and high-definition picture quality. It also supports standard ONVIF and other network protocols which make networking relatively easier.

The **VNG RAPID** professional can be deployed on a local server or on a cloud platform. The device's software integration can also be customized according to the requirements of the customer.

General functions

- The device has a built-in deep learning algorithm and supports face capture function which can detect as well as capture 20-30 faces at a time.
- Supports face tracking and scoring with enabled multi-frame recognition.
- Automatically filters and gives the output of the best face image while reducing repeated snapshots.
- Supports H.265 + /H.265 / H.264 + MJPEG double encoding triple stream.
- Supports ONVIF and other network protocols.
- Single IP solution with rich network expansion capability.
- Easy to access various video surveillance platforms.
- It can work with Windows SDK/API for rapid integration with customer's device.

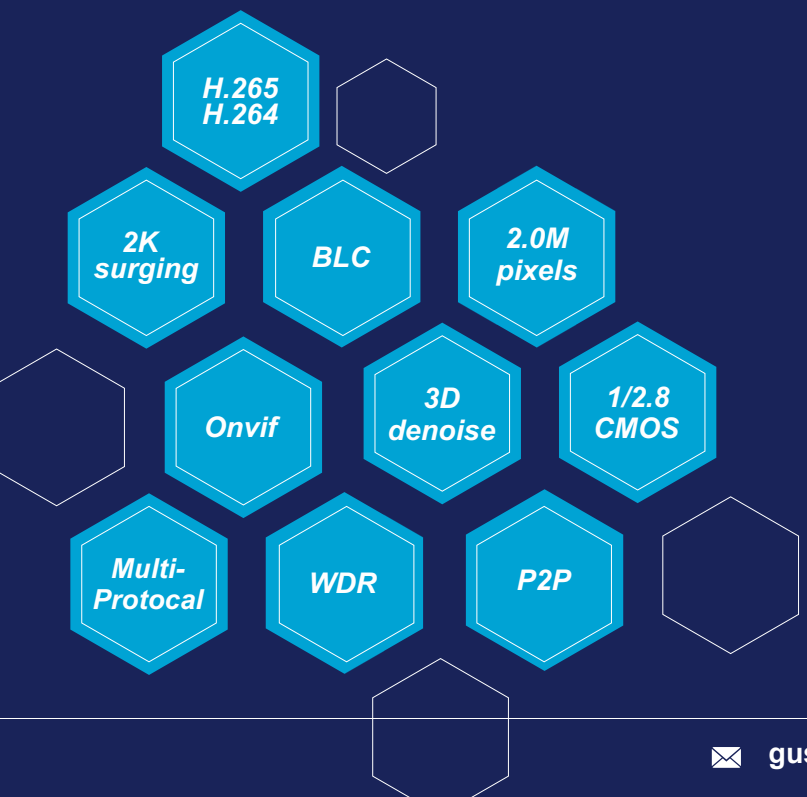
Product Features

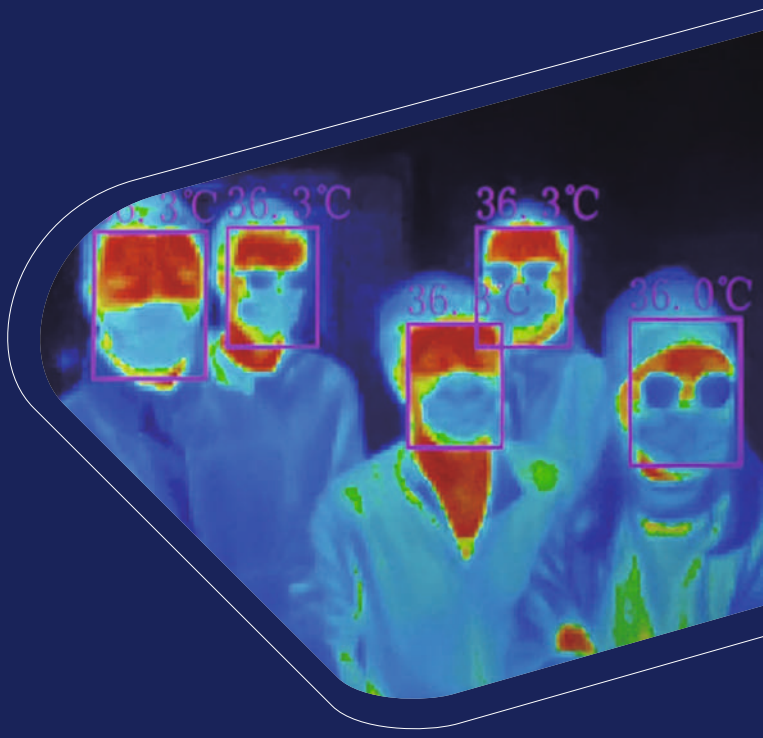
Thermal imaging module

- Thermal imaging detector pixel dimensions are 256x192.
- Has the highest pixel density in its category.
- Thermal sensitivity (NETD): ≤60mK (@ 25 ℃, F # = 1.0).
- Full-screen temperature measurement in the field of view.
- Automatic tracking of face temperature measurement.
- Temperature data OSD overlay screen display.
- Supports non-contact temperature measurement.

Visible light module

- 1 / 2.8″2.0M CMOS image sensor.
- 0.005Lux@F1.2 color, 0.001Lux@F1.2 black and white.
- The maximum resolution can reach up to1920x1080 at 30fps.





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Specification

VNG Rapid Fever Screening System	
sensor type	Silicon oxide uncooled infrared focal plane detector
Resolution	256X192
NTD	≤60mk @ 25 ℃, F # = 1.0
Temperature measurement accuracy	Target temperature 35 ℃ ~ 38 ℃: temperature measurement accuracy ± 0.3 ℃ Target temperature 20 ℃ ~ 33 ℃ or 38 ℃ ~ 50 ℃: temperature measurement accuracy ± 0.6 ℃ Target temperature is below 20℃ or over 50℃: temperature measurement accuracy ±2℃
Angle of view	Horizontal: 35 ° Vertical: 27 °
Image mode	Black hot / white hot / iron red / rainbow and other false colors
Reading range	1-3 meters. (Note: The reading range is around 1-3 meters for accurate temperature measurement. If the distance exceeds, its accuracy will decrease.)
Visible light module parameters	
Image Sensor	1 / 2.8 ”2.0M Pixel CMOS
Minimum illumination	0.005Lux@F1.2 (color mode), 0.001Lux@F1.2 (black and white mode)
Wide dynamic range	≥80dB
Signal to noise ratio	≥46dB (AGC OFF)
focal length	4mm
Angle of view	Horizontal viewing angle 84 °, vertical viewing angle 45 °
Features	
Temp measurement function	Support global temperature measurement and regional temperature measurement
Abnormal Temp alarm	High temperature limit Low temperature limit area temperature difference alarm
Network protocol	Support RTSP, RTP, TCP, UDP, UPNP, DHCP, PPPoE, ONVIF Protocol, etc.
Network Interface	1 channel 10 / 100BaseT Ethernet, RJ45 interface
Alarm interface / Audio port	Set aside
General specifications	
Operating temperature	-20 ℃ ～ 55 ℃
Working humidity	0% -90% RH (no condensation)
Protection level	Ip67
power supply	DC12V
Power consumption	≤5W (without heating)
Product Size	246mm * 101mm * 81mm (with bracket)
weight	＜ 1kg
AI function	
Face capture	Built-in deep learning AI algorithm, supports simultaneous detection of 20-30 faces, face detection, exposure, scoring, screening, snapshot uploading, supports FTP, HTTP and other methods to upload faces, head and shoulders, upper body, full-body, original images, etc.

Terms and conditions:
VNG Rapid is developed for preliminary screening of fever. This device acts as an indicator of the abnormal temperature of individuals and the results obtained from temperature measurement should not be considered as final. For accurate temperature results, the individual needs to be screened again as per professional medical practices under proper supervision.

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