



Features

- Face mask recognition with 90+% accuracy in 50ms speed
- Body temperature test with measurement range from 35°C ~42°C (95°F~107.6°F), with precision of ±0.3°C
- Real-time detection for multiple people
- Built-in Intel® OpenVINO-based iVINO AI recognition software
- High-precision thermal camera
- IP65 Front-panel waterproof protection



System Specifications

VINO2100-IDS		
System Mainboard	IB917AF-7600U	
CPU	Intel® Core™ i7-7600U Processor	
System Speed	Up to 3.90 GHz	
Memory	2x 4GB DDR4 SO-DIMM	
Construction	Aluminum	
Chassis Color	White	
Rear Panel External I/O	2x RJ45 Gigabit LAN 1x HDMI 1x DP 4x USB3.0 Type-A 1x D-SUB9 COM1 RS-232/422/485 1x Rock switch 1x Power jack	
Storage	1x 2.5" HDD space default 64GB SSD	
Camera	1x USB 1080P camera with digital microphone	
Speaker	2x speaker	
Expansion Slots	1x miniPCI-E (full-size)	
Power Supply	DC 24V	
LCD Panel	Panel Size	21.5" TFT-LCD
	Max. Resolution	1080 x 1920
	Luminance (cd/m2)	1000
	Max. Color	16.2M
	View Angle (H°/V°)	178/178
Touch Screen	Backlight Lifetime (hrs)	50,000
	Touch Type	Projected capacitive
	Touch Interface	USB
Mounting	Light Transmission (%)	86
	Mounting	VESA 100x100/200x100, Desktop mounting holes at bottom
Dimensions	Dimensions	537.8 x 329.26 x 71.95mm 695 x 500 x 306 mm (with desktop stand) 1750 x 550 x 500 mm (with stand pole)
	Operating Temperature	0°C~50°C
	Storage Temperature	-20°C~70°C
Relative Humidity	10%~90% @40°C (non-condensing)	
Vibration	IEC60068-2-64 ed2.0 2008-04	

Shock	MIL-STD-810G 516.6
Certification	CE/FCC class A +LVD

Software Specifications

iVINO	
Accuracy Rate	90+%, can be improved via AI learning
Response Times	Less than 50 ms
Detection Target	Up to 20 subjects at the same time
Max. Analysis Image	1920 x 1080
Minimum System Platform	Intel® CPU processors with corresponding operating systems - 6th~8th Gen Intel® Core™ and Intel® Xeon® processor - Intel® Pentium® and Celeron® Processor N Series with Intel® HD Graphics
Minimum System Memory	At least 8GB DDR4 SO-DIMM
Minimum System Storage	At least 1 GB HDD Space for iVINO
System Requirements	Microsoft® Windows® 10 Pro (64 bit) / Microsoft® Windows® 10 Enterprise (64 bit) Microsoft® Visual C++ Redistributable for Visual Studio 2015, 2017 and 2019

Thermal Camera Specifications

VINOCAM2617	
Image Sensor	Vanadium Oxide Uncooled Focal Plane Arrays
Max. Resolution	160 x 120 (the resolution of output image is 320 x 240)
Pixel Interval	17µm
Response Waveband	8 µm to 14 µm
NETD (Noise Equivalent Temperature Difference)	≤ 40 mk (@25 °C, F# = 1.1)
Lens (Focal Length)	3.1 mm
IFOV	5.48 mrad
Field of View	50° × 37.2° (H x V)
Min. Focusing Distance	0.2 m
Aperture	F 1.1
Optical Module	
Max. Image Resolution	2688 x 1520
Image Sensor	1/2.7" Progressive Scan CMOS
Min. Illumination	Color: 0.0089 Lux @(F1.6, AGC ON) B/W: 0.0018 Lux @(F1.6, AGC ON)

Shutter Speed	1s to 1/100,000s
Lens (Focal Length)	4 mm
Field of View	84° x 44.8° (H x V)
WDR	120 dB
Day & Night	IR cut filter with auto switch
Image Function	
Bi-spectrum Image Fusion	Fusion view of thermal view and overlaid details of the optical channel
Smart Function	
Temperature Range	30°C to +45 °C
Temperature Accuracy	±0.5 °C
Infrared	
IR Distance	Up to 40m
IR Intensity and Angle	Automatically adjusted
Integration	
Communication Interface	1x RJ45 10M/100M self-adaptive Ethernet interface. 1x RS-485 interface
General	
Power	12V DC ±20%, two-core terminal block PoE (802.3af, class 3)

Power Consumption	12V DC ±20%: 0.65 A, max. 7.5 W PoE (802.3af, class 3): 42.5V to 57V, 0.14 A to 0.22 A, max. 8W
Operating Temperature/Humidity	Temperature: -20 °C to 50 °C Humidity: 95% or less
Protection Level	IP66 Standard TVS 6000V lightning protection, surge protection, voltage transient protection
Dimensions	358.3 x 113.5 x 115.2 mm (14.10" x 4.47" x 4.53")
Weight	Approx. 1.76 kg (3.88 lb)

Ordering Information

VINO2100-IDS	21.5" (1080x1920) Artificial Intelligence Image Recognition System, Intel® i7 7600U processor, 8GB DDR4 memory, 64GB SSD, projected capacitive touch screen, pre-installed Windows 10 and iVINO AI recognition software, thermal camera, desktop mounting stand, w/ 24V 180W adaptor
ASP001	Stand pole

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System Dimensions



