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Guard of National Public Safety

## HCNC Infrared Smart Human Body Temperature Detection System

HY-2005B

HY-2005B/E

WUHAN HUAZHONG NUMERICAL CONTROL CO.,LTD

# Infrared human body temperature detector, why is HCNC is your prior choice?

## ✓ Technology leader

HCNC is a leader in China's intelligent technology and infrared technology. It has strong R & D and production capabilities of infrared intelligent body temperature detection systems, and is an emergency industrialization base for high-tech products approved by the state as "remote human body temperature infrared camera". Internet+ and Smart + "features are first developed by HCNC in the industry, going ahead of the competitors.

## ✓ Enough experience

HCNC is the only company with more than 20 years of practical experience in the field of human body temperature detection. In 2003 we combated SARS, in 2005 we combated HINI influenza, in 2014 we fight against the Ebola epidemic, and Inner Mongolia plague in 2019. More than 3,000 sets of infrared temperature detectors have been used in ports, airports, stations, hospitals, etc.

## ✓ Sufficient capacity

The company is a GEM-listed company. It has established three production bases in Wuhan headquarters, Foshan, and Chongqing, with the ability to produce 2,000 sets per month.

## ✓ Service network covers the whole country

The company's branches, research institutes, and sub-centers are located in the Pearl River Delta, the Yangtze River Delta, the west coast of the Straits, the Shandong Peninsula, the southwest region, and the northeast region. Each branch has a strong ability to install and dispatch body temperature detectors and technical services. We're on call 24 hours.

## HCNC have been being on the road of fighting against coronavirus

In airports, subway station,  
railway station, to ensure smooth trip.



Beijing Capital International Airport



Shenzhen Bao'an International Airport



Tengzhou Highspeed Rail Station



Shenzhen Subway Station



Jinan Yaoqiang International Airport



Wuhan Tianhe International Airport

In hospital,  
to ensure hospital operation



Wuhan Leishenshan Hospital



Wuhan Huoshenshan Hospital



The First People's Hospital of Chongqing Liang Jiang New Area



Dongfeng General Hospital



Ningbo Ninth Hospital



Inner Mongolia maternal and Child Health Hospital

In company,  
to help resume production



Shenzhen Fushikang Group



Shenzhen Create Century Machinery Co., Ltd



Qingdao Haier Group



Guangdong Harvest Star Technology Co., Ltd

In school, to ensure the safety  
for teachers and students



Huazhong University of Science and Technology



Chongqing Jinshan Elementary School



Shenzhen Huazhong University of Science and Technology Research Institute

## The Leading technology is our advantage over competitors



### Quickness

Detect human body temperature in target area within 1 second.



### Non-contact detection

People undergoes a physical test at a distance of 5 to 8 meters, which is not easy to cause people's dislike and avoids cross infection.



### Intelligent

High-resolution digital image acquisition and output. After processing the effective alarm data and attaching other information, it collects them to a unified database for storage and management.



### Sensitivity

Temperature resolution can reach 0.05 degrees Celsius to make it easy to find out the fever precisely.

The 38° in yellow in the image is the temperature of the cup in the hand, but not the body surface temperature. After the system's face recognition and automatic screening, it reduces false alarms.



### Concealment

The temperature measurement is performed without people's knowing, and does not affect the normal order of airports, train stations and other places.

## Powerful, efficient and accurate



Real-time information / history information is displayed at the same time. Query is convenient and fast.



Temperature curve setting is easily learned and easily applied.



Flexible alarm parameter settings



Smart management for abnormal body temperature data

## Parameter comparison between the two series and other well-known brands

Item	HCNC infrared body temperature detection system
Classification	IR human body temperature measurement
Measurement accuracy	$\geq \pm 0.3^{\circ}\text{C}$
Measurement stability	Temperature measurement is always stable
Third party identification certificate	National approval certificate of measuring instruments
Third party identification	Supplier of temperature measurement products agreed by AQSIQ for 10 consecutive years
Market segment share of IR body temperature measurement	60% or more
Application situation	<p>HY-2005B has been installed on more than 60% of custom entry-exit inspection and quarantine sites, airports, ports, and Hong Kong-Zhuhai-Macao Bridge</p> <p>HY-2005B has gone through SARS, bird flu, Ebola, swine fever in Africa, plague in Inner Mongolia, etc.</p>

## Advantages compared to similar products

Series HY-2005B, HY-2005B/E



HY-2005B IR thermal imaging smart body temperature detection system



HY-2005B/E IR thermal imaging smart body temperature detection system

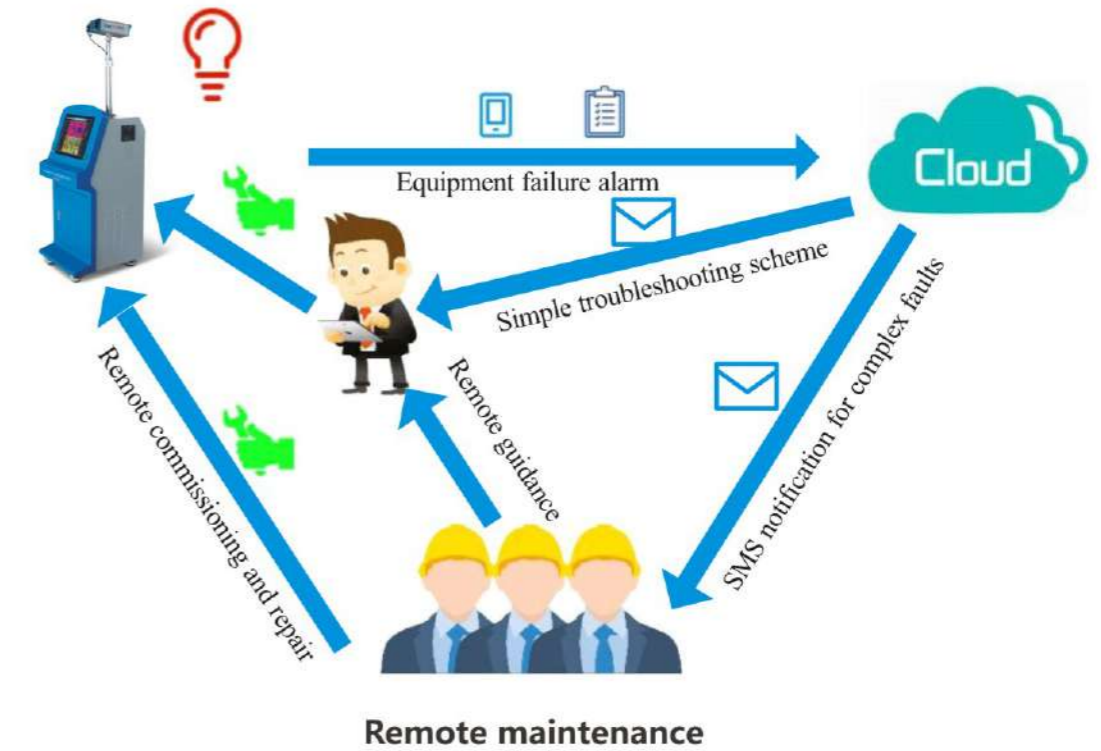
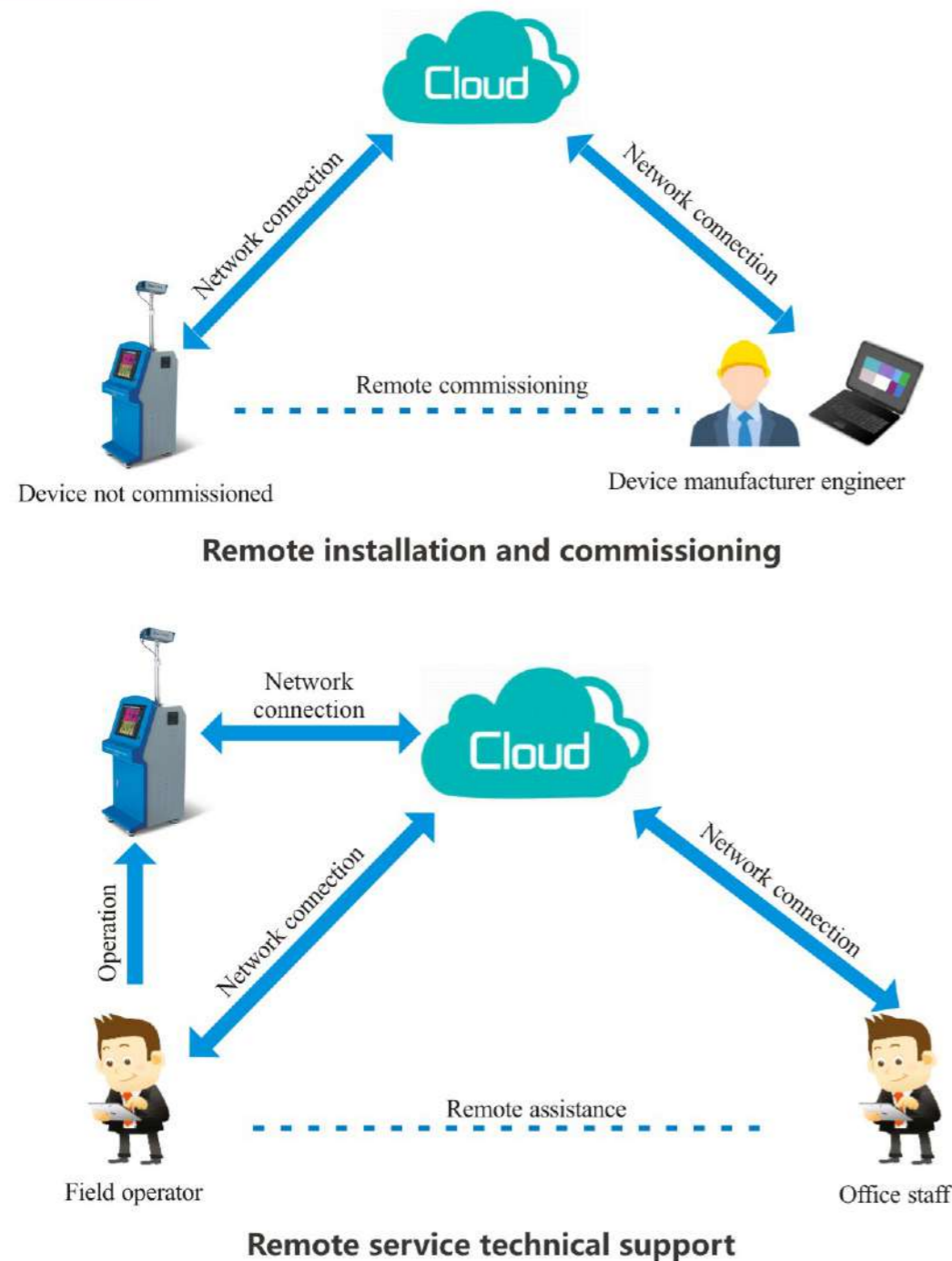
## Parameter comparison between two series

Model	HY-2005B	HY-2005B/E special edition
Measurement accuracy	$\pm 0.2^{\circ}\text{C}$	$\pm 0.3^{\circ}\text{C}$
Measurement range	$0^{\circ}\text{C} \sim 50^{\circ}\text{C}$	$20^{\circ}\text{C} \sim 50^{\circ}\text{C}$
IR detector pixel	$640 \times 512$	$384 \times 288$
IR lens focal length	19mm	15mm
IR imaging distance	200m	150m
IR spatial resolution	0.63mrad	0.99mrad
IR field of view	$32^{\circ} \times 26^{\circ}$	$24^{\circ} \times 18^{\circ}$
Temperature resolution (NETD)	$0.05^{\circ}\text{C}$	$0.05^{\circ}\text{C}$
Measurement calibration mode	External blackbody real-time calibration	Built-in blackbody real-time calibration
Visible light camera pixel	2 million pixels	1.3 million pixels
Interface, communication protocol	Ethernet, TCP/IP, UDP	Ethernet, TCP/IP, UDP
Video mode	Dual light fusion	Dual light fusion
Device form	Industrial electric cabinet + computer + blackbody bracket	Laptop + two tripods
Temperature at operation	$0^{\circ}\text{C} \sim 50^{\circ}\text{C}$	$0^{\circ}\text{C} \sim 40^{\circ}\text{C}$
Power supply	AC 220V	AC 220V
Optimal measurement channel width L	2.5M	2.5M
Optimal measurement distance S	6M to 8M	5M to 7M
Client management software	1 set	1 set
Remote communication 4G internet module and background data management software	1 set	*Optional
Applicable places	Airport, station, port, entry/exit customs	School, enterprise park, community, bazaar, supermarket

## "Internet+,Smart+" Features

HCNC "Infrared Intelligent Body Temperature Detection System" big Data cloud platform: through the Internet of Things technology, all infrared body temperature detection devices are connected to the network to achieve some clouds services: enabling remote debugging of the device, remote use collaboration, remote maintenance and repair, remote device management, remote monitoring and processing, effectiveness statistics analysis, abnormal body temperature big data and smart applications. That reduces the threshold for the device use, provides decision-making basis for epidemic prevention and control departments, and further improves emergency service capabilities, bring diversified means for the prevention and control of epidemic.

### Main functions



Remote maintenance



Remote device management



Remote monitoring and processing



Statistical analysis of results

Follow the HCNC WeChat subscription number HCNC Technology and Services, click Product Center-Infrared Cloud Platform, or log in to <http://ir.hzncc.cn/>, you can enter the HCNC Human Body Temperature Smart Infrared Camera big data platform.