

No front and rear enclosures
for easy installation and easy modular integration



N Series Intelligent HMI

13 Highlights

- Enable simple connection between HMI, mobile phone, tablet, computer, TV, camera and other HMIs over the Internet.
- Allow remote access for multiple concurrent users without SCADA in the cloud or VNC connection.
- Provide data transmission and data storage in any public or private server.
- Integrate data with ERP, MES or other applications by MQTT, OPC UA, HTTP, TCP and etc.
- Embed the display of HMI in other applications like software, APP and etc.
- Include intelligent functions such as TTS output, intercom, audio playing and etc.
- Use mobile phone as a scanner to scan barcode and enter information in HMI.
- Apply to data visualization or centralized control on large screen by TVBOX.
- Use innovative design including Full Viewing Angle Screen, design without shell and eSIM.
- Enable simple connection between HMI, mobile phone, tablet, computer, TV, camera and other HMIs in local area network.
- Swipe down to adjust brightness/volume and check network status instantly, no background access needed.
- Zero configuration, auto-discovers LAN cameras with one-click binding, supports alarm-triggered recording.
- No pre-designed buttons needed. Lists all screens clearly for one-click seamless navigation.

Model List

Model	TFT Screen	Storage	LAN+COM	USB	Voice	Video Play	Local Camera	WiFi	Speaker	RFID	Wireless	Hole Size	Dimension W*H*D
N4	4.3" 800*480 HD Full Viewing Angle Display	4G+512M	1+2	1	Yes							108×70mm	125×78×32mm
N4-G		4G+512M	1+2	1	Yes						China 4G		
N4-W		4G+512M	1+2	1	Yes			Yes					
N7	7" 1024*600 HD Full Viewing Angle Display	4G+512M	1+2	1	Yes	Yes	Yes		Optional	Optional		168×103mm	184×118×24mm
N7-G		4G+512M	1+2	1	Yes	Yes	Yes		Optional	Optional	China 4G		
N7-W		4G+512M	1+2	1	Yes	Yes	Yes	Yes	Optional	Optional			
N7-GW		4G+512M	1+2	1	Yes	Yes	Yes	Yes	Optional	Optional	China 4G		
N10	10.1" 1024*600 Full Viewing Angle Screen	4G+512M	1+2	1	Yes	Yes	Yes		Optional	Optional		238x146mm	248x160x23mm
N10-G		4G+512M	1+2	1	Yes	Yes	Yes		Optional	Optional	China 4G		
N10-W		4G+512M	1+2	1	Yes	Yes	Yes	Yes	Optional	Optional			
N10-GW		4G+512M	1+2	1	Yes	Yes	Yes	Yes	Optional	Optional	China 4G		

Products Features



Connection in LAN

All models have built-in IIoT technology which enables local access and open interface without internet.



Remote access

With the real-time control solution developed by Haiwell, concurrent users can remotely access gateway by APP and desktop.



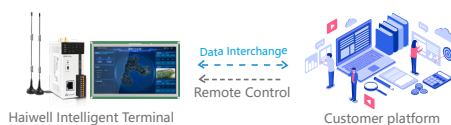
Device & Data Security

Dual Key review & remote local authentication safeguard access; data stays off-cloud, supporting designated server & local/public network deployment.



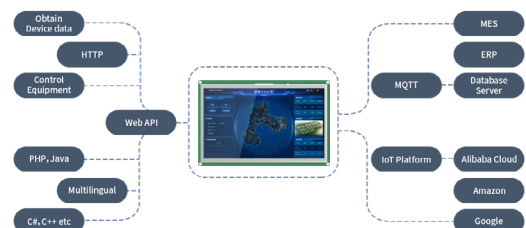
Display integration

The display of gateway can be embedded in other applications such as software, website, APP and etc so that they have remote access to gateway.



Open Interface

Supports Web API, MQTT, and multiple programming languages. Enables device control via HTTP, integrates with ERP, MES, and third-party IoT platforms, and supports high-concurrency connections.



Voice Broadcast & Intercom

support bilingual TTS, USB audio, voice alerts, device intercom, group notifications, and mobile remote intercom.



Mobile scanner

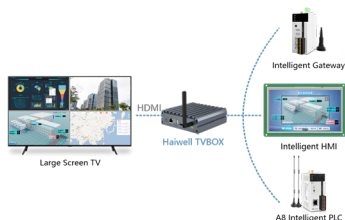
You can turn your mobile phone into a barcode scanner and enter information everywhere. It's more convenient than external scanner.





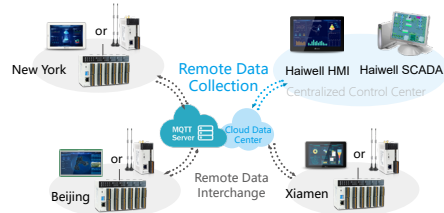
Digital display board

The production data, device state and video surveillance can be viewed on large screen by connecting with TVBOX. It can be applied to data visualization and centralized control.



Remote centralized control

All the data of remote devices can be acquired through MQTT broker for centralized control. Users don't even need to deploy server if using cloud data center.



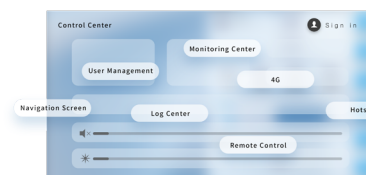
Monitoring & Management

Zero-configuration, auto-discovers and one-click adds RTSP cameras. Supports centralized management, alarm recording, and remote monitoring via APP & WeChat Mini Program.



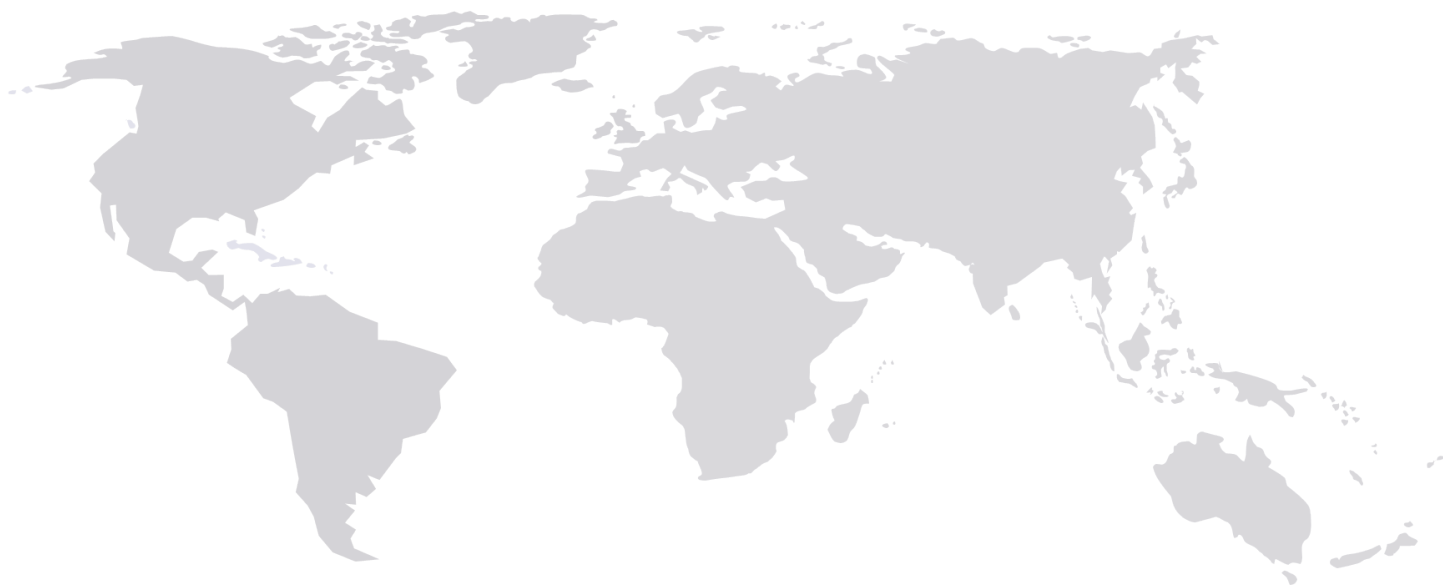
Quick Control

Adjust brightness/volume directly, view network status instantly; swipe to show screen thumbnails and switch screens with one click for higher efficiency.



Parameter

Parameter		N4"	N7"	N10"
Software	Programming software	Haiwell Cloud SCADA		
Display	Screen size	4.3 " TFT	7 " TFT	10.1 " TFT
	Resolution	800x480 pixels	1024x600 pixels	
	Color	16.7M		
	Brightness	280 cd/m²	450 cd/m²	400 cd/m²
	Viewing angle	80°/80°/80°/80°	85°/85°/85°/85°	
	Touch panel type	Resistance-type		
Backlight	Type	LED		
	Life	50,000 hours		
	Auto sleep function	Yes		
Hardware	Flash	4G		
	RAM	512M		
	Ethernet port	10/100 Base-T*1		
	Serial port	COM1:RS232*1 COM2:RS485*1		
	USB HOST	USB2.0 *1		
	RTC	Yes		
Power	Rated input power	24V DC±20%		
	Power consumption	6W@24V DC	7.5W@24V DC	9W@24V DC
	Power protection	Equipped with surge protection and anti reverse connection protection		
	Withstand voltage	500VAC		
	Insulation resistance	50MΩ @500VDC or more		
Environment	Cooling method	Natural wind cooling		
	Storage temperature	-20°C ~70°C		
	Operating temperature	-10°C ~ 60°C		
	Relative humidity	10% ~ 90% RH (non-condensing)		
	Vibration resistance	10 - 25Hz (X.Y and Z axis 2G/30 minutes)		
	Operating environment	Dustproof,moisture proof,corrosion resistant,and protected from electric shock and external impact environments		
Structure	External dimensions (WxHxD)	125x78x32mm	184x118x24mm	248x160x23mm
	Panel cut dimensions (WxH)	108x70mm	168x103mm	238x146mm
	Weight	0.3kg	0.45kg	0.75kg
	Installation	Installed by securing through fixed hole positions		
Function	WiFi	Optional (802.11b/g/n)		
	Wireless	China 4G	Optional (4G)	
	Speaker	External	Optional	
	RFID	No	Optional	



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Haiwell APP



Haiwell Wechat

The parameters of product are subject to changes without prior notice. (Ver I - 202605)