

4.3"/7"/10.1"/15.6"

D Series Intelligent HMI

11 Highlights

- 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, video surveillance 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.
- Support Beidou positioning and trajectory tracking.
- Enable simple connection between HMI, mobile phone, tablet, computer, TV, camera and other HMIs in local area network.
- Enable simple connection between HMI, mobile phone, tablet, computer, TV, camera and other HMIs over the Internet.
- Use innovative design including HD screen, narrow bezel, Aluminum alloy shell and optional features like eSIM, microphone, speaker and RFID reader.

Model List

Model	TFT Screen	Storage	LAN+COM	USB	Intelligentize	Voice	Local Video	RFID	Satellite Positioning	WIFI	Wireless	Hole Size W×H(mm)	Dimension W×H×D(mm)
D4	4.3" 800*480 HD	4G+512M	1+2	1		Yes						132x80 Chamfer: R7mm	137x85x30mm
D4-G		4G+512M	1+2	1		Yes					Optional (4G)		
D4-W		4G+512M	1+2	1		Yes				Yes			
D7	7" 1024*600 HD Capacitive touch aluminum alloy shell	8G+512M	1+3	1	Speaker	Yes						187x114 Chamfer: R7mm	193x120x33mm
D7-G		8G+512M	1+3	1	Speaker	Yes					*Built in eSIM		
D7-W		8G+512M	1+3	1	Speaker	Yes				Yes			
D7-GP		8G+512M	1+3	1	Speaker	Yes			Yes		*Built in eSIM		
D7-GW		8G+512M	1+3	1	Speaker	Yes				Yes	*Built in eSIM		
D7-E		8G+512M	1+3	1	Speaker	Yes					Global 4G		
D7-EW		8G+512M	1+3	1	Speaker	Yes				Yes	Global 4G		
D7 Pro		8G+1G	2+3	2	Microphone Speaker	Yes	Yes	Yes					
D7 Pro-G		8G+1G	2+3	2	Microphone Speaker	Yes	Yes	Yes			*Built in eSIM		
D7 Pro-W		8G+1G	2+3	2	Microphone Speaker	Yes	Yes	Yes		Yes			
D7 Pro-GP		8G+1G	2+3	2	Microphone Speaker	Yes	Yes	Yes	Yes		*Built in eSIM		
D7 Pro-GW		8G+1G	2+3	2	Microphone Speaker	Yes	Yes	Yes		Yes	*Built in eSIM		
D7 Pro-E		8G+1G	2+3	2	Microphone Speaker	Yes	Yes	Yes			Global 4G		
D7 Pro-EW		8G+1G	2+3	2	Microphone Speaker	Yes	Yes	Yes		Yes	Global 4G		
D10	10.1" 1280*800 HD Capacitive touch aluminum alloy shell	8G+1G	1+3	1	Speaker	Yes						254x161 Chamfer: R7mm	260x167x32mm
D10-G		8G+1G	1+3	1	Speaker	Yes					*Built in eSIM		
D10-W		8G+1G	1+3	1	Speaker	Yes				Yes			
D10-GP		8G+1G	1+3	1	Speaker	Yes			Yes		*Built in eSIM		
D10-GW		8G+1G	1+3	1	Speaker	Yes				Yes	*Built in eSIM		
D10-E		8G+1G	1+3	1	Speaker	Yes					Global 4G		
D10-EW		8G+1G	1+3	1	Speaker	Yes				Yes	Global 4G		
D10 Pro		8G+1G	2+3	2	Microphone Speaker	Yes	Yes	Yes					
D10 Pro-G		8G+1G	2+3	2	Microphone Speaker	Yes	Yes	Yes			*Built in eSIM		
D10 Pro-W		8G+1G	2+3	2	Microphone Speaker	Yes	Yes	Yes		Yes			
D10 Pro-GP		8G+1G	2+3	2	Microphone Speaker	Yes	Yes	Yes	Yes		*Built in eSIM		
D10 Pro-GW		8G+1G	2+3	2	Microphone Speaker	Yes	Yes	Yes		Yes	*Built in eSIM		
D10 Pro-E		8G+1G	2+3	2	Microphone Speaker	Yes	Yes	Yes			Global 4G		
D10 Pro-EW		8G+1G	2+3	2	Microphone Speaker	Yes	Yes	Yes		Yes	Global 4G		
D15	15.6" 1920x1080 HD Capacitive touch aluminum alloy shell	8G+1G	2+3	2	Speaker	Yes						383x245 Chamfer: R7mm	394x256x45mm
D15-G		8G+1G	2+3	2	Speaker	Yes					*Built in eSIM		
D15-W		8G+1G	2+3	2	Speaker	Yes				Yes			
D15-GP		8G+1G	2+3	2	Speaker	Yes			Yes		*Built in eSIM		
D15-GW		8G+1G	2+3	2	Speaker	Yes				Yes	*Built in eSIM		
D15-E		8G+1G	2+3	2	Speaker	Yes					Global 4G		
D15-EW		8G+1G	2+3	2	Speaker	Yes				Yes	Global 4G		
D15 Pro		8G+1G	2+3	2	Microphone Speaker	Yes	Yes	Yes					
D15 Pro-G		8G+1G	2+3	2	Microphone Speaker	Yes	Yes	Yes			*Built in eSIM		
D15 Pro-W		8G+1G	2+3	2	Microphone Speaker	Yes	Yes	Yes		Yes			
D15 Pro-GP		8G+1G	2+3	2	Microphone Speaker	Yes	Yes	Yes	Yes		*Built in eSIM		
D15 Pro-GW		8G+1G	2+3	2	Microphone Speaker	Yes	Yes	Yes		Yes	*Built in eSIM		
D15 Pro-E		8G+1G	2+3	2	Microphone Speaker	Yes	Yes	Yes			Global 4G		
D15 Pro-EW		8G+1G	2+3	2	Microphone Speaker	Yes	Yes	Yes		Yes	Global 4G		

* The only supported country is China

Features



Capacitive Touch Screen

Supports wet hand operation, sensitive touch, instant response with a light touch of fingertips. High brightness, perfect restoration of image color and clarity.



Satellite Positioning

Support Beidou positioning and trajectory tracking. Users can check the realtime position of devices.



Data Security

The user data is not stored in Haiwell cloud. All the data can be stored in private or public server assigned by users.



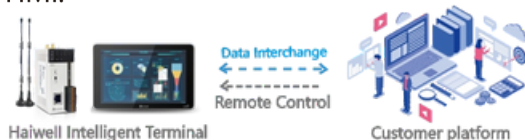
Web API

Users can get the data and control device on their own platform or software by Web API in local area network or over Internet.



Display Integration

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



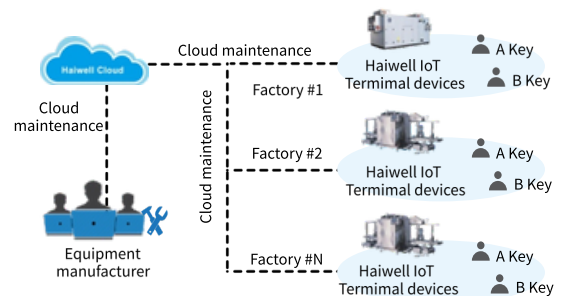
RFID/NFC

HMI supports reading RFID tags and NFC recognition, which can be applied to user login and access control.



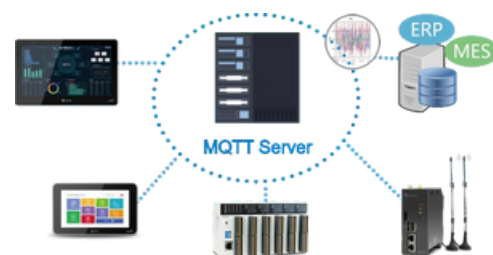
Cloud Maintenance

It's easier for manufacturers to manage equipments by using remote maintenance function.



MQTT Protocol

MQTT protocol is supported and applied to the connection with ERP/MES/database.



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.





Text To Speech

The english text can be converted into voice through built-in speaker. Audio files can also be played.



Voice Intercom

All models support voice intercom, voice broadcast and remote intercom with APP.



Support text to speech



Support voice broadcast



Support voice intercom



Built-in multimedia hardware



Support remote intercom and broadcast with mobile phone



Video Surveillance

HMI can connect with camera supporting RTSP or EZVIZ protocol by Ethernet. The camera can be watched on HMI and APP.



Video Playing

You can play video on HMI. The supported format is MP4.



Mobile Scanner

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



Mobile Authentication

The identity of operator can be verified by using NFC recognition or scanning a QR code with mobile phone.



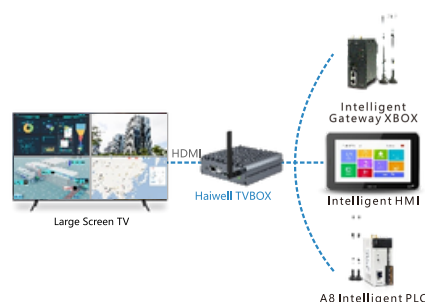
IoT Platform

All models support the connection to Alibaba Cloud IoT, AWS IoT and Google Cloud IoT Core.



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.



Specification

Specification		D4	D7	D7 Pro	D10	D10 Pro	D15	D15 Pro
Software	Programming software	Haiwell Cloud SCADA						
Display	Screen size	4.3"TFT	7"TFT		10.1"TFT		15.6"TFT	
	Resolution	800x480pixels	1024x600pixels		1280x800pixels		1920x1080 pixels	
	Display color	16.7M					262K	
	Brightness	280 cd/m²	450 cd/m²		400 cd/m²		350 cd/m²	
	Viewing angle	80'/80'/80'/80'		85'/85'/85'/85'				
	Touch panel type	Resistance-type	capacitive touch					
Backlight	Type	LED						
	Life	50,000 hours						
	Auto sleep function	Supported, configurable						
Hardware	Flash	4GB	8GB					
	RAM	512M	512M	1G	1G	1G	1G	1G
	Ethernet port	10/100 Base-T*1	10/100 Base-T*1	10/100 Base-T*2	10/100 Base-T*1	10/100 Base-T*2	10/100 Base-T*2	10/100 Base-T*2
	Serial port	COM1:RS232*1 COM2:RS485*1	COM1:RS232*1 COM2:RS485*1 COM3:RS485*1					
	USB HOST	USB2.0 *1	USB2.0 *1	USB2.0 *2	USB2.0 *1	USB2.0 *2	USB2.0 *2	USB2.0 *2
	RTC	Yes						
Power	Rated input power	24V Dc±20%						
	Power consumption	6W@24V DC	12W@24V DC	15W@24V DC	13W@24V DC	17W@24V DC	23W@24V DC	
	Power protection	Equipped with surge protection and anti reverse connection protection						
	Withstand voltage	500V AC						
	Insulation resistance	50MΩ @500VDC or more						
Environment	Vibration resistance	10 - 25Hz (X.Y and Z axis 2G/30 minutes)						
	Cooling method	Natural wind cooling						
	Protection grade	The panel meets IP65 and the body meets Ip20						
	Storage temperature	-20 °C~70°C						
	Operating temperature	-10°C ~ 60°C						
	Relative humidity	10%~ 90%RH (no condensation)						
	Operating environment	Prevention of dust, moisture, corrosion, electric shock and external shock external impact onments						
external shock	Structure material	ABS (flame-retardant)	all-aluminum alloy shell + glass panel					
	External dimensions	137x85x30mm	193x120x33mm		260x167x32mm		394x256x45mm	
	Panel cut dimensions	132x80mm (R7mm)	187x114mm (R7mm)		254x161mm (R7mm)		383x245mm (R7mm)	
	Weight	0.3kg	1.0kg		1.5kg		3.2kg	
	Installation	Panel mounting			Panel mounting、VESA(75*75)		Panel mounting、VESA(75*75)	
Function	WIFI	Optional (802.11b/g/n)						
	Wireless	Optional (4G)						
	RFID	No	No	Standard	No	Standard	No	Standard
	Satellite Positioning	No	Optional					
	Speaker	External	Built-In	Built-In	Built-In	Built-In	Built-In	Built-In
	Microphone	External	External	Built-In	External	Built-In	External	Built-In
Certification	Certification Type	-	CE Mark	CE Mark	CE Mark	CE Mark	CE Mark	CE Mark



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