



HMI • SCADA • Cloud All in One

**HMI**

SINOVO Machine Interface

# SINOVO Cloud Platform

SINOVO Cloud is a cross-platform IOT cloud platform. It supports PC, iPad, Android, IOS and other terminals. You can visit on-site equipments from a thousand miles away, and realize the remote monitoring and maintaining for HMI and PLC. It supports remote programming, firmware upgrades, monitoring and diagnosis etc.

SINOVO Cloud provides security mechanisms for communication. It is secured by the encryption mechanism of 128-bit SSL, which ensures the stable and safe data transfer. It also uses A-key and B-Key protection mechanism to enable secure remote access to the devices.

# SINOVO Products

HMI - Human Machine Interface

PLC - Programmable Logic Controller

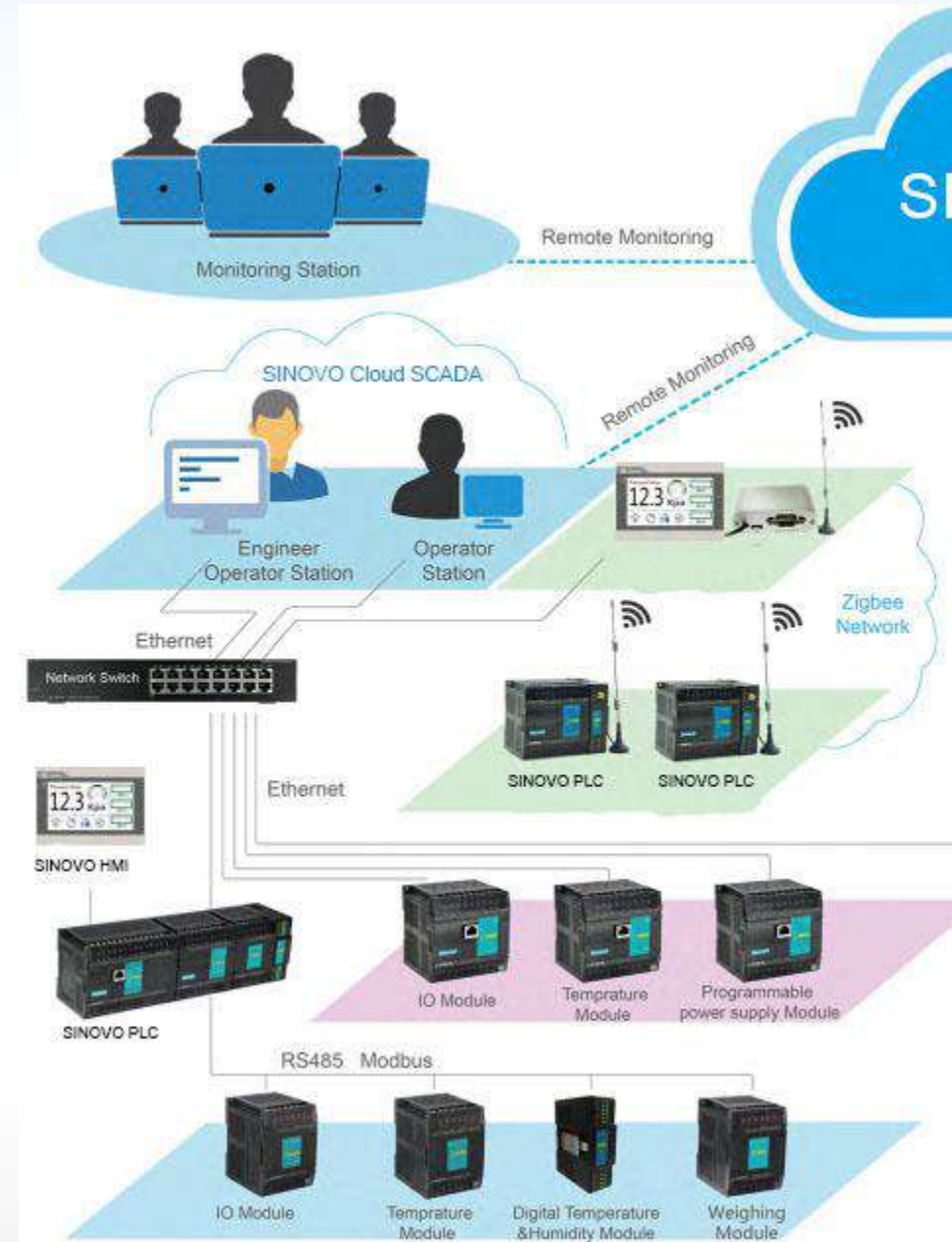
Industrial Panel PC

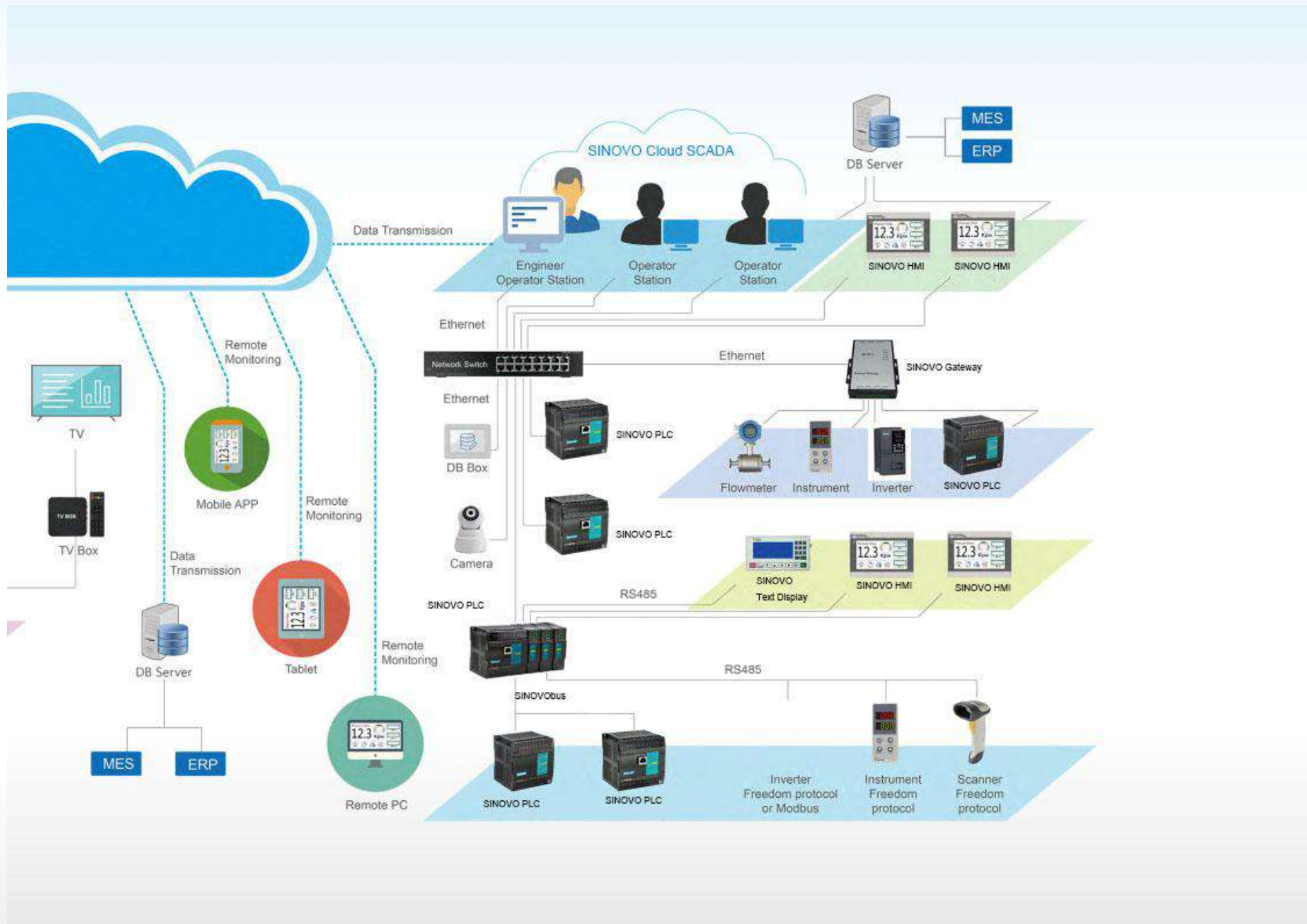
Gateway

TextDisplay

Cloud SCADA

SINOVOCloud







# 7

-w: Wifi

C7 C7-W

D7 D7-W

## Win at the Starting Line

B o r n   w i t h   h i g h   s t a n d a r d s

- Colorful Screen
- Top Configuration
- Unique Functions
- Program Download
- Intelligent Management
- Multiple HMI Networking
- SINOVO** Cloud
- Rich Ports
- Database
- Multi-Screen Function

- 7" TFT 800x480, LED backlight, screen is real and exquisite
- Cortex A8 800MHZ CPU, 4GB FLASH + 512M DDR3
- A/B Key security mechanism, Multi-language automatic translation, Project overview interface
- Serial port/ U disk / SD card / Ethernet port/ Haiwell cloud
- Support cloud / mobile terminal access control, strong operability
- Innovative network mode, easy, convenient and practical
- Integrate **SINOVO** cloud service, built-in **SINOVO** cloud engine
- Standard RJ45 port, 2 serial ports (232/422/485), 2 USB ports, SD card. WiFi is optional
- Support database accessing, easy connection with MES/ERP systems. (D series only)
- Support multiple customized terminal display, and mutual management. (D series only)



# 10.1"

-w: Wifi

C10 C10-W  
D10 D10-W

## HMI with the Internet

Controlling any time, any where



[Extreme Appearance](#)

[Top Configuration](#)

[Program Download](#)

[Intelligent Management](#)

[Unique Function Multiple](#)

[HMI Networking](#) **SINOVO**

[Cloud](#)

[Rich Ports](#)

[Database](#)

[Multi-Screen Function](#)

10.1" TFT 1024x600. LED backlight, fashion, splendid, elegant

Cortex A8 800MHZ CPU, 4GB FLASH + 512MDDR3

Serial port/ U disk / SD card / Ethernet port/ Haiwell cloud

Support cloud / mobile terminal access control, strong operability

A/B Key security mechanism, Multi-language automatic translation, Project overview interface

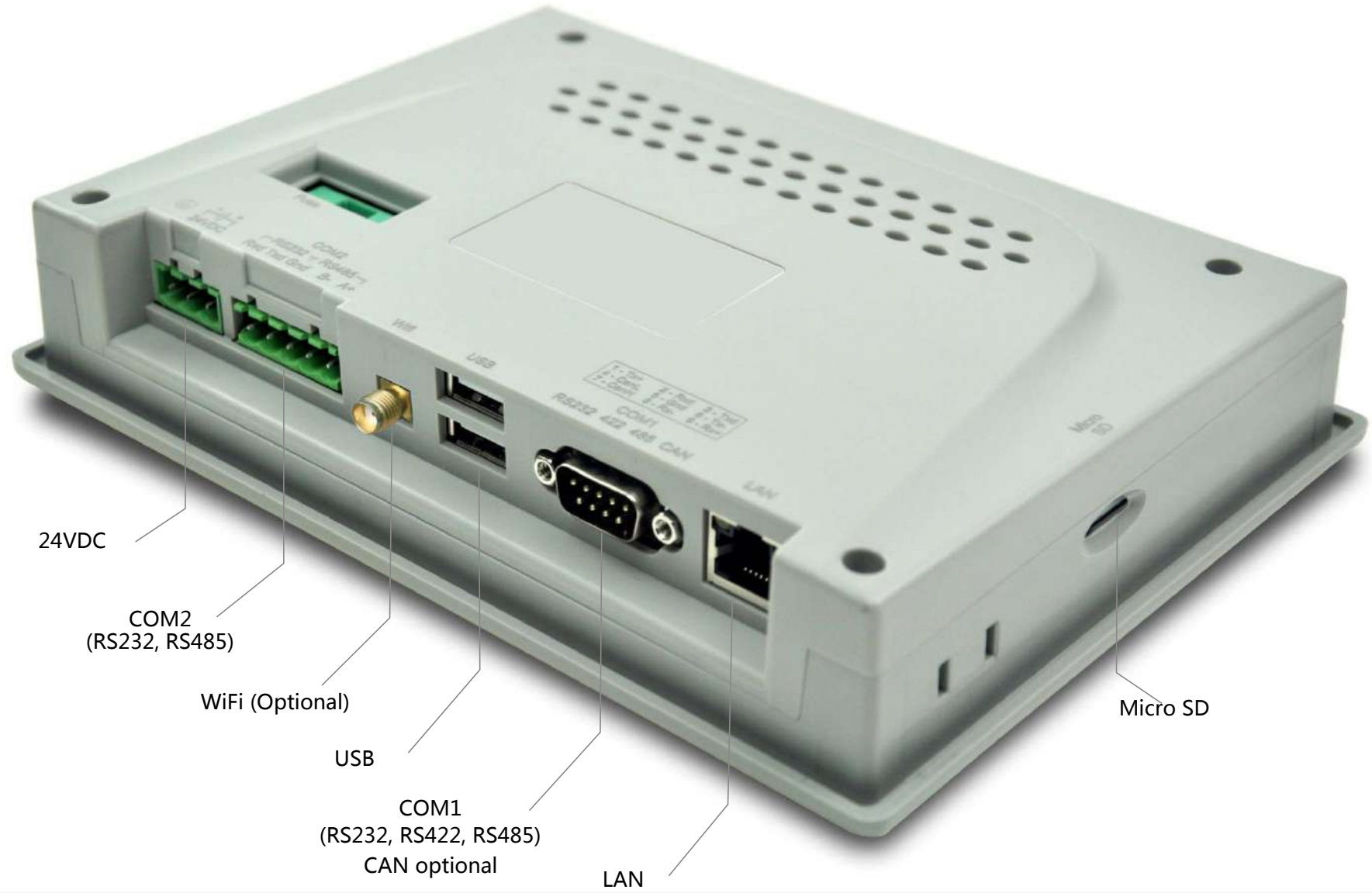
Innovative network mode, easy, convenient and practical

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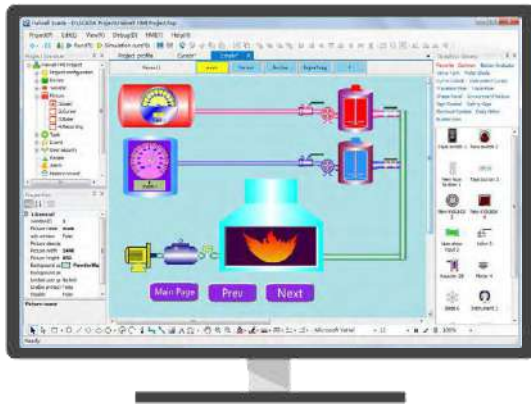
Support multiple customized terminal display, and mutual management. (D series only)



# SINOVO Cloud SCADA Features SINOVO HMI software

## HMI directly uses SCADA Software for Programming & Management

- With the full functions of SCADA, design and manage HMI project
- Integration of SCADA system address variable mechanism enhances the efficiency of project development and maintenance



## Innovative A/B Key Security Mechanism

- It needs to set the A Key account of HMI or SCADA in order to open cloud access, which can improve operational safety
- It can set a number of B Key accounts to assist A Key account in managing device, which can achieve multiple protection
- If any visitor wants to bind the device, it need to get authorization from A key and B Key, and A key and B Key can set the access time for visitors, the double key auditing mechanism has a higher security level



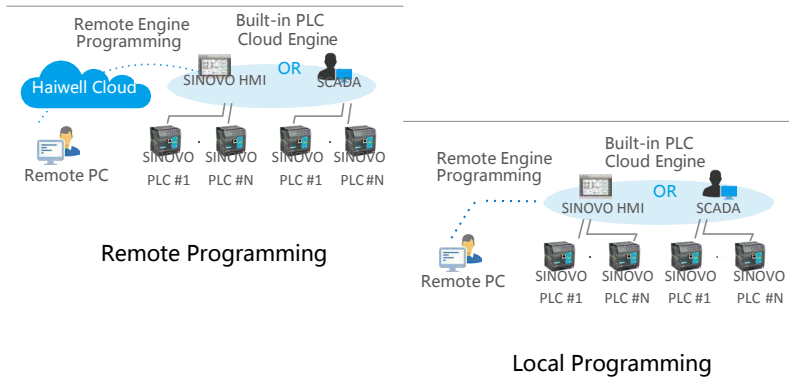
## SINOVO Cloud Integration

- Through mobile phones APP provided by Haiwell cloud and Haiwell cloud website easily achieve the remote viewing and control of HMI and SCADA
- Support to send alarm information by mobile phone APP, SMS, E-mail and other ways of communication, and using the powerful alarm mechanism makes you feel at ease wherever you are



## SINOVO Cloud Engine

There is no need to set any virtual serial port or router, because HMI / SCADA has built-in Haiwell cloud engine which can achieve PLC online, reomote programming and remote monitoring. When PLC is online through cloud engine, it is controlled by the A / B Key security, protecting the safety of device.



## Single File Project

Using a project file to store pictures, scripts, recipes and other resource content, and then to achieve its complex encryption, the design of project single file is convenient of project transmission, sharing, backup and storage, achieving easy storage, easy sharing, easy security.



## Multiple HMI Networking Easily

It only needs to run project on a host HMI, any slave can be directly connected to the networking of host HMI without any project running, and it does not limit the number of slave devices connected, achieving simple and flexible networking.



## Unique Project Overview Interface

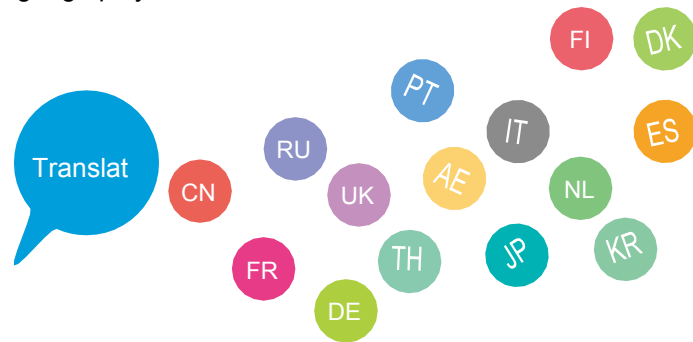
The traditional project tree view with the **SINOVO** unique project overview interface, which can help quickly browse and edit device, pictures, scripts and other project content, giving you a new visual experience.





### Multi-language Automatic Translation

It supports 26 kinds of languages (Chinese, English, Japanese, Korean, Spanish, French, Thai, Arabic, Russian, Portuguese, German, Italian, Dutch, Finnish, Danish, etc.) which can be automatically translated from each other, and no need to design screen for each language, it does not matter if you do not understand foreign language, just a simple setting, easy to achieve multi-language project.



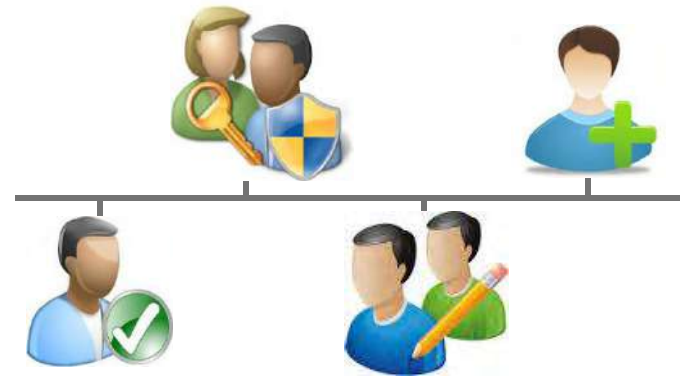
### Database Support

- Support to save real-time&history data to database as MySQL/SQL Server etc.
- HMI can easily communicate with MES/ERP system through database



### User Group Permission Management Mechanism

Through the mechanism of user group, it can control permissions of screens, primitives and so on, easy to achieve convenient management and change user permissions, meanwhile supporting remote add managing users on running terminal without changing the project, greatly saving the time.



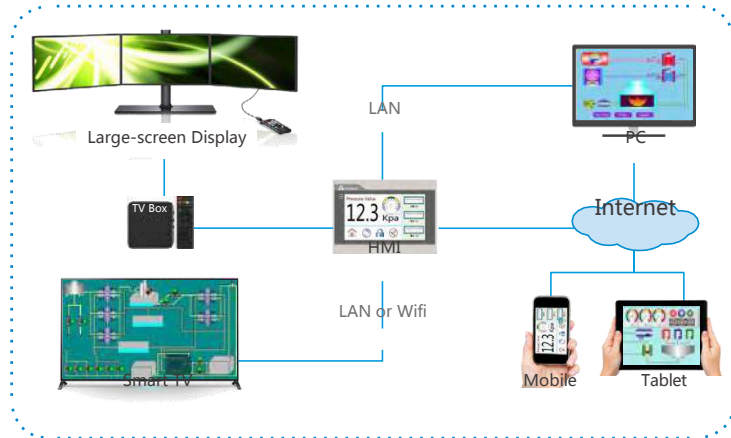
### Javascript

- The system uses the most popular HTML5 core technology: Javascript language
- Due to the ecological maturity of HTML5 technology, a large number of Javascript script resources on the Internet provide a great convenience for the script development



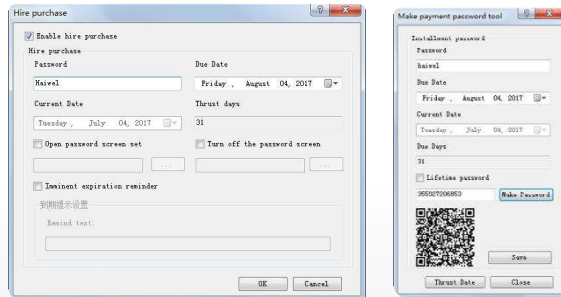
## Multi-Screen Communication

- Support multiple terminal display as TV/PC/Mobile etc. User can customize the picture for different display size.
- Support mutual control between the devices. For example you can control the TV display by mobile.



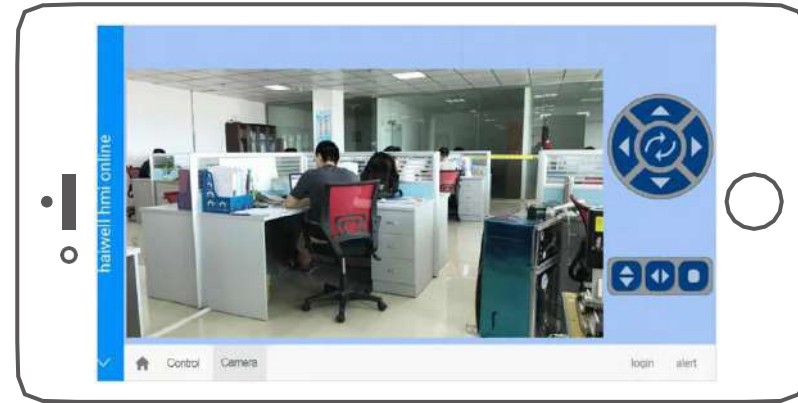
## Installment Payment

- Support infinite installment payment settings
- Support postpone instruction and release restriction instruction of installment payments made by Haiwell cloud



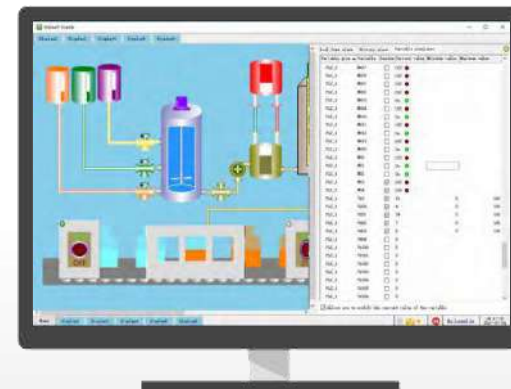
## Camera Remote Monitoring

- Support network camera and USB camera
- Support HMI, Mobile APP and web client remote control camera pan-tilt and monitor camera contents



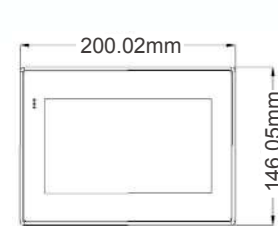
## Simulation Running

Support offline simulation function, it can simulate running with the preset variable value, you can easily modify the variable value to check the project.

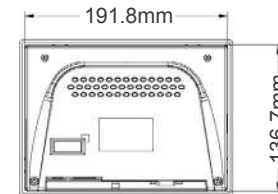


Specification	Model	C7   C7-W   D7   D7-W	C10   C10-W   D10   D10-W
Display	Display	7" TFT	10.1" TFT
	Resolution	800x480 pixels	1024x600 pixels
	Colors	16.7M	16.7M
	Brightness(cd/m <sup>2</sup> )	300	350
	Contrast Ratio	800:1	500:1
	Touch Type	Resistive Type	Resistive Type
Backlight	Backlight Type	LED	LED
	Backlight Life Time	20,000 Hours	20,000 Hours
	Automatic Dormancy	Support and Configurable	Support and Configurable
Software		Haiwell Cloud SCADA	Haiwell Cloud SCADA
Processor	CPU	Cortex A8 800MHZ	Cortex A8 800MHZ
Memory	Flash	4GB EMMC	4GB EMMC
	RAM	DDR3 512M	DDR3 512M
I/O Port	Micro SD Card Slot	Support	Support
	Ethernet Port	10/100 Base-T	10/100 Base-T
	WiFi (Optional)	802.11b/g/n	802.11b/g/n
	COM Port	COM1: RS232/RS422/RS485 COM2: RS232/RS485	COM1: RS232/RS422/RS485 COM2: RS232/RS485
	USB Host	USB2.0 x 2	USB2.0 x 2
	Print Port	COM Port/USB Print	COM Port/USB Print
	CAN	Optional	Optional
Power	Input power	24±20%VDC	24±20%VDC
	Power Consumption	7W	10W
	Power Isolation	Built-in	Built-in
	Voltage Resistance	500V AC	500V AC
	Isolation Resistance	Exceed 50MΩ @500VDC	Exceed 50MΩ @500VDC
	Vibration Endurance	10 ~ 25 Hz (X, Y, Z direction 2G/30 minutes)	10 ~ 25 Hz (X, Y, Z direction 2G/30 minutes)
Environment	Cooling Type	Natural air Cooling	Natural air Cooling
	Protection Structure	IP65	IP65
	Storage Temperature	-20 ~ 70°C	-20 ~ 70°C
	Operating Temperature	-10°C ~ 60°C	-10°C ~ 60°C
Relative Humidity	10 ~ 90% RH (non-condensing)	10 ~ 90% RH (non-condensing)	

## 7" Dimensions



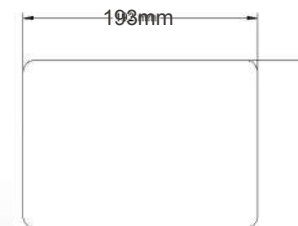
Front View



Rear View

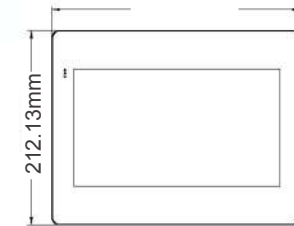


Bottom View

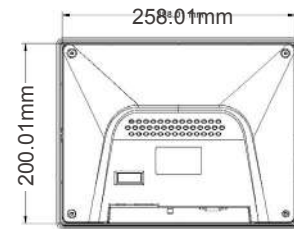


Cutout Dimension

## 10" Dimensions



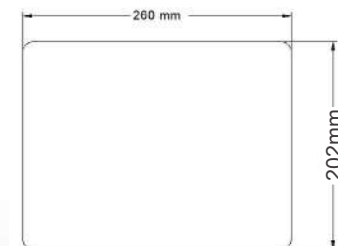
Front View



Rear View



Bottom View



Cutout Dimension



## ShenZhen Sinovo Electric Technologies Co., Ltd.

Add: 5th Floor, No. B Building, HuaFeng industrial Zone,  
Hangcheng Street, Baoan District, Shenzhen City, China  
Tel: (0755)29784870 Fax: (0755)29784969  
Email: [lilian@sinovo.cn](mailto:lilian@sinovo.cn)  
<http://www.sinovo-vfd.com>



The parameters of product are subject to changes without prior notice. (Ver. I - 201805 )