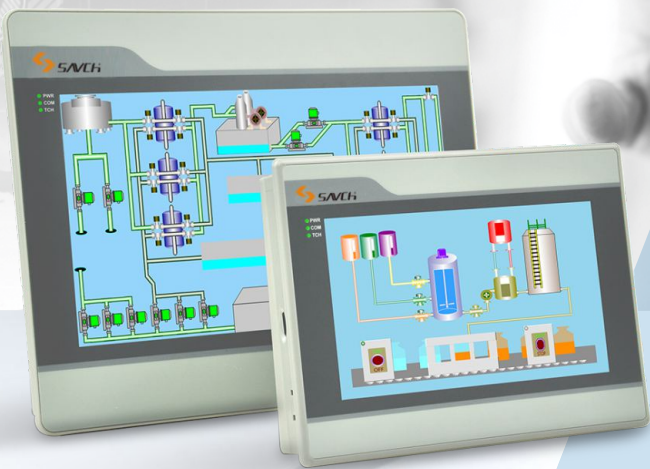


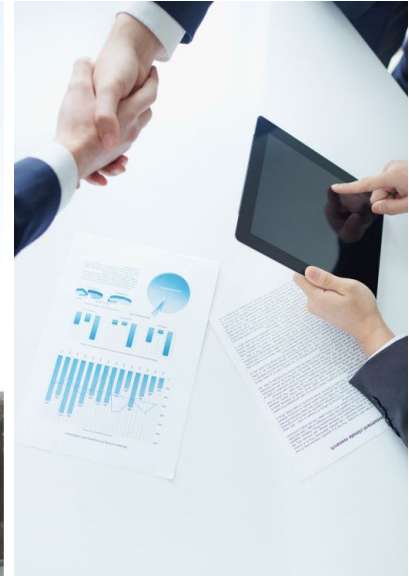
SPN SERIES General Touch Screen





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COMPANY
PROFILE

Savch group is one of the earliest established manufacturer of inverter in China mainland, we are established since 2001. Following with the upgrade pace of the global manufacturing industry, after years of continuous technical innovation, resource integration and optimization for many years, Savch group has been the professional industrial automation product and solution provider that integrates RD, manufacturing, sales and service who has Quanzhou Sangchuan Electric Equipment Company as its RD and manufacturing base, Shanghai Savch Technology Company as its geographic center and with hundreds of agents and dozens of service centers as it is sales network. At present, the company has 140 patents and 20 software copyrights.

Horizontal development, vertical base.

Based in vertical, under the guide of the originality spirit, Taiwan Savch does always focus on the research of low-voltage variable frequency drive technology and has it is own proprietary intellectual property rights. The release of a vector inverter represented by S3800 and of high accuracy servo motor drives represented by SDA2 achieves a stable standing space for Taiwan Savch in motor drive field both at home and abroad and also greatly encourage all the Taiwan Savch members who were struggling in the stage of development.

Developing in horizontal, Taiwan Savch always adheres to keep pace with the times, struggle on the frontline of three filed continuously: intelligent manufacturing, new energy, industrial internet. The keen on insight of the market direction and on customers' requirement makes Taiwan Savch product to be more creative and more flexible. The continuous exploration and developing technology, the continued self-thought and improvement on manufacturing ensure Taiwan Savch product to be with higher performance and more reliable.

Currently, Taiwan Savch products are widely used in the industrial automation field. Taiwan Savch are accomplishing the mission "Industry intelligence, Energy saving, Green power" and approving its value" User satisfied, customer succeed, self accomplished." in dozens of countries and regions all over the world.

In the following 10 years, Taiwan Savch will still take "Integrity, Quality, Service" as its conviction of sustainable development and "technology-leading" as its core development strategy of keeping competitive, comprehensively upgrade the technology, quality and service, in order to support "Made-in China 2025" and lead to the industrial upgrade.

**SERVICE
NETWORK****Quanzhou Factory****QUANZHOU SANGCHUAN ELECTRIC EQUIPMENT CO.,LTD**

Address: 3# Zixin Road, Jiangnan Hi-Tech Industrial Park,
Quanzhou, Fujian, China

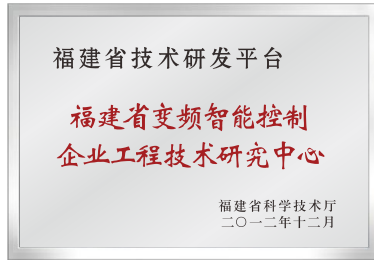
Shanghai Office**SHANGHAI SAVCH ELECTRIC TECHNOLOGY CO.,LTD**

Address: Room 1410-1411, 4# Building, Yatai Square, Huaqiao
International Business City, Shanghai, China

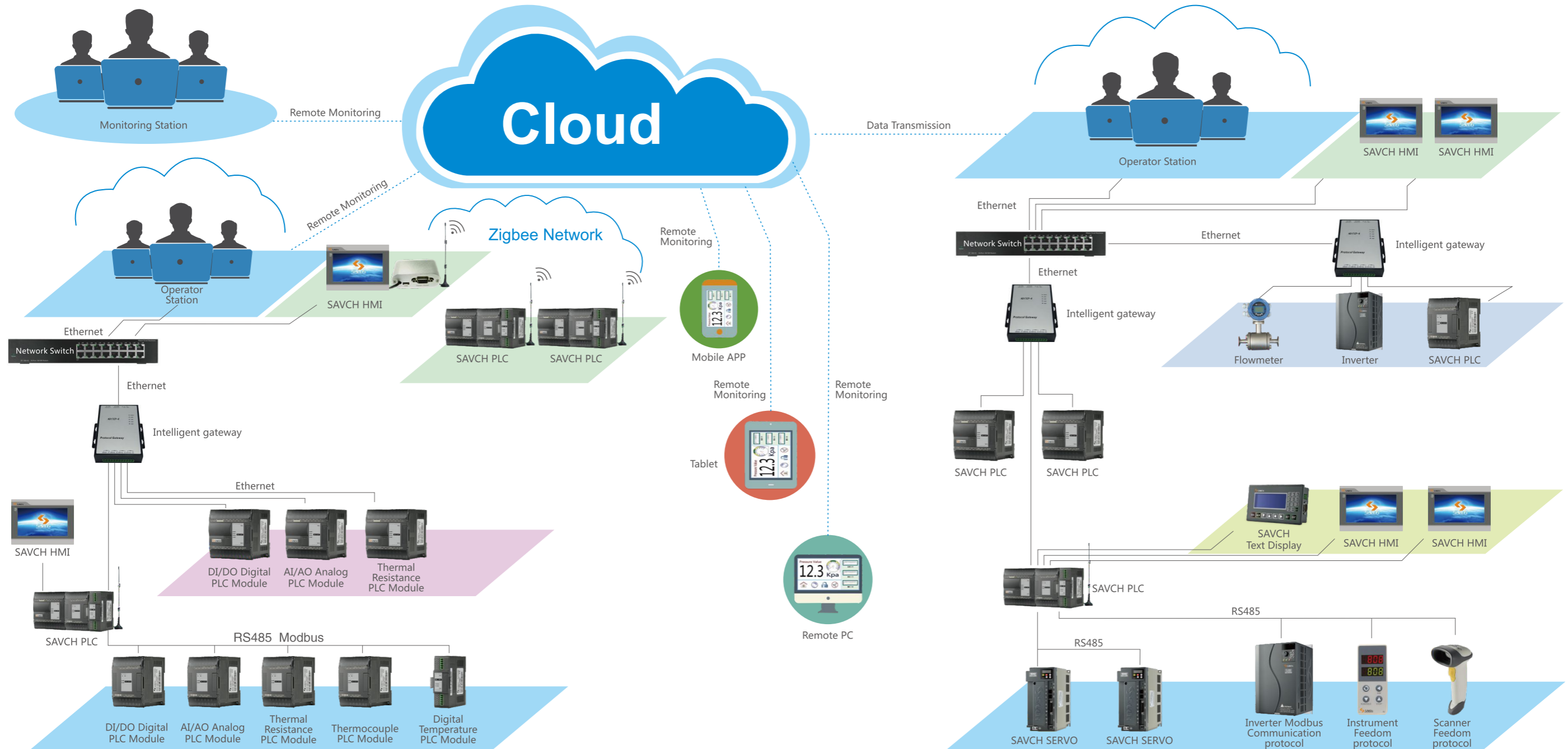
Business Hotline

Tel	: +86-595-24678270	+86-595-24678249
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HONOR QUALIFICATION



CLOUD NETWORK DIAGRAM



Our 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. Also it supports remote programming, firmware upgrades, monitoring and diagnosis etc.

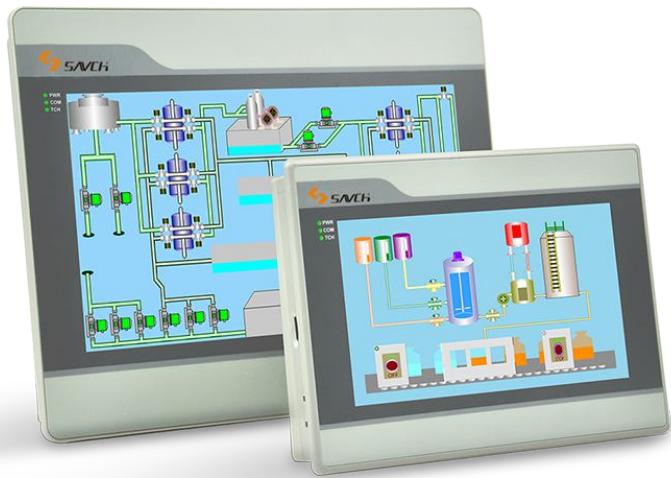
Our cloud provides security mechanisms for communication. It is secured by the encryption mechanism of 128-bit SSL, which ensures the stable and safe data transfer. It also uses A key and B key protection mechanism to enable secure remote access to the devices.

PRODUCT INTRODUCTION

CHARACTERISTICS



- ▶ Hardware configuration: :
 - Cortex A8 800MHz CPU
 - 4GB Flash+512MB DDR3
 - 10M/100M Ethernet
 - USB-Host
 - Micro-SD
- ▶ Multi ports:
 - COM1 (RS232/RS485/RS422)
 - COM2 (RS232/RS485)
 - RJ-45
- ▶ Display characteristics:
 - Screen is real and exquisite • LED backlight
- ▶ Project download:
 - Serial port • U disk • SD card • Ethernet port
- ▶ Special functions:
 - Multi-screen Networking
 - A/B key security mechanisms
 - LAN/Cloud/mobile end visiting control



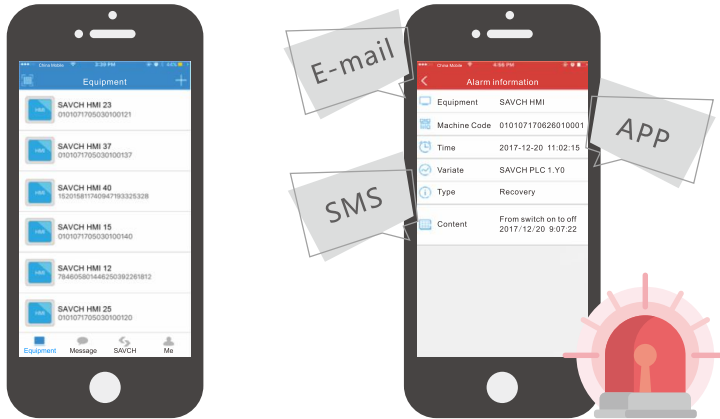
Ethernet HMI——built-in cloud engine and PLC engine

Models	Configuration	Panel Cutout (mm)	Dimensions (mm)
SPN-070	<ul style="list-style-type: none"> • 7 inches TFT screen, 800×480 resolution • A8 800MHz • 4G Flash • 512M RAM 	193×138	200×146×37
SPN-070W	<ul style="list-style-type: none"> • 7 inches TFT screen, 800×480 resolution • A8 800MHz • 4G Flash • 512M RAM • Wifi 		
SPN-101	<ul style="list-style-type: none"> • 10.1 inches TFT screen, 1024×600 resolution • A8 800MHz • 4G Flash • 512M RAM 	260×202	270×212×35
SPN-101W	<ul style="list-style-type: none"> • 10.1 inches TFT screen, 1024×600 resolution • A8 800MHz • 4G Flash • 512M RAM • Wifi 		

SOFTWARE CHARACTERISTICS

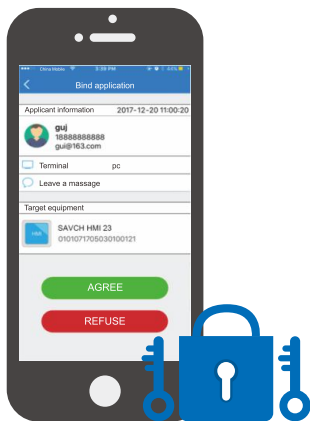
[Cloud Integration]

- ▶ Though cloud platform or mobile APP, it reaches the remote viewing and control of HMI.
- ▶ Support to send alarm information by mobile APP, SMS, E-mail etc. Use the powerful alarm mechanism makes you feel at ease wherever you are.



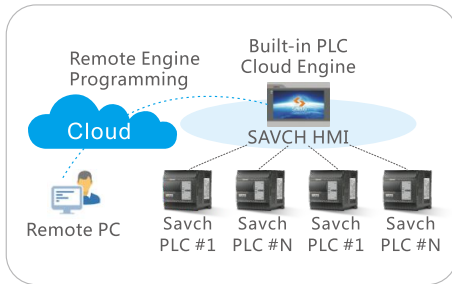
[Innovative A/B Key Security Mechanism]

- ▶ It needs to set the A Key account of HMI 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. A key and B Key can set the access time for visitors, the double key auditing mechanism has a higher security level.

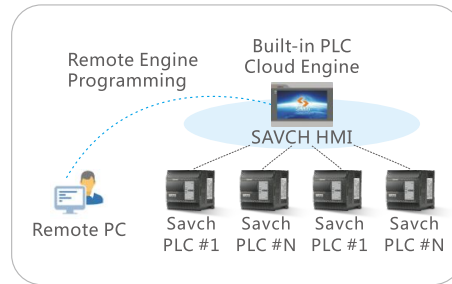


【 Cloud Engine 】

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



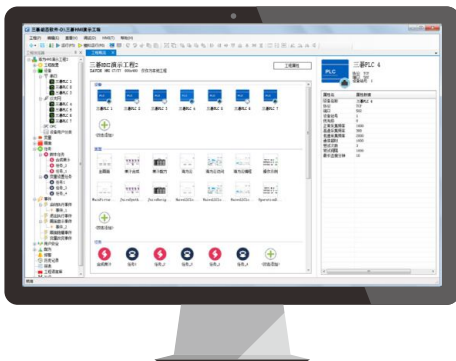
Remote Programming



Local Programming

【 Unique Project Overview Interface 】

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



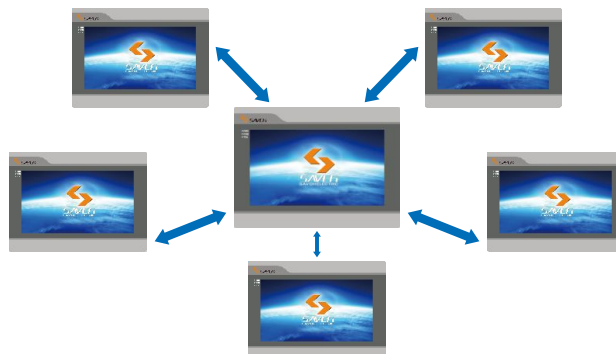
【 Single File Project 】

- ▶ 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.



【 Multi-Screen 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.



【 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.



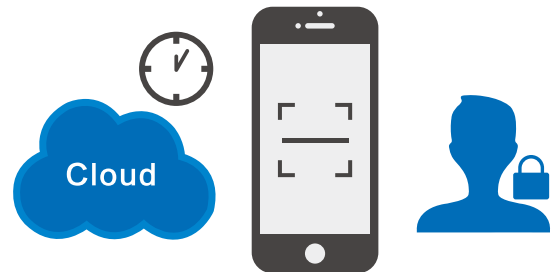
【 User Group Permission Management Mechanism 】

- ▶ 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 adding and managing users on running terminal without changing the project, greatly saving the time.



【 Temporary Password and Scan Code Login 】

- ▶ In the case of the administrator can not be present, it can generate a 5 minute temporary password through cloud APP for field staffs to deal with emergencies, it is flexible and safe.
- ▶ In the case of inconvenience to input password, users can login by scanning code from cloud mobile APP, to further protect the security.



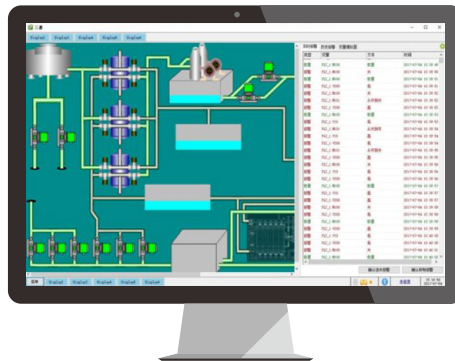
【 Javascript 】

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



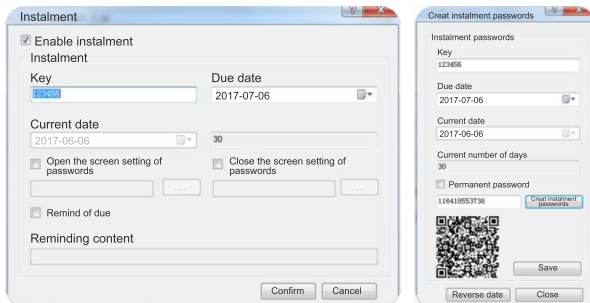
【 Easy Operation 】

- ▶ Built-in system bar and navigation bar, easy to do the screen switching and navigation.
- ▶ Built-in alarm sidebar, quick to check and confirm alarm information. It can check history alarm at any time.



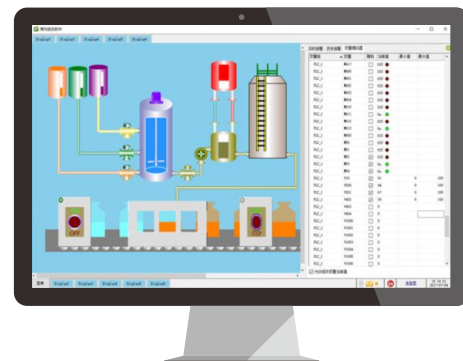
【 Instalment Payment 】

- ▶ Support infinite instalment payment settings.
- ▶ Support postpone instruction and release restriction instruction of instalment payments made by cloud.



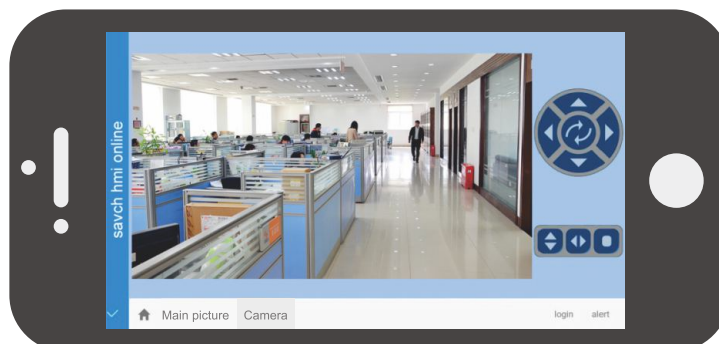
【 Simulation Running 】

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

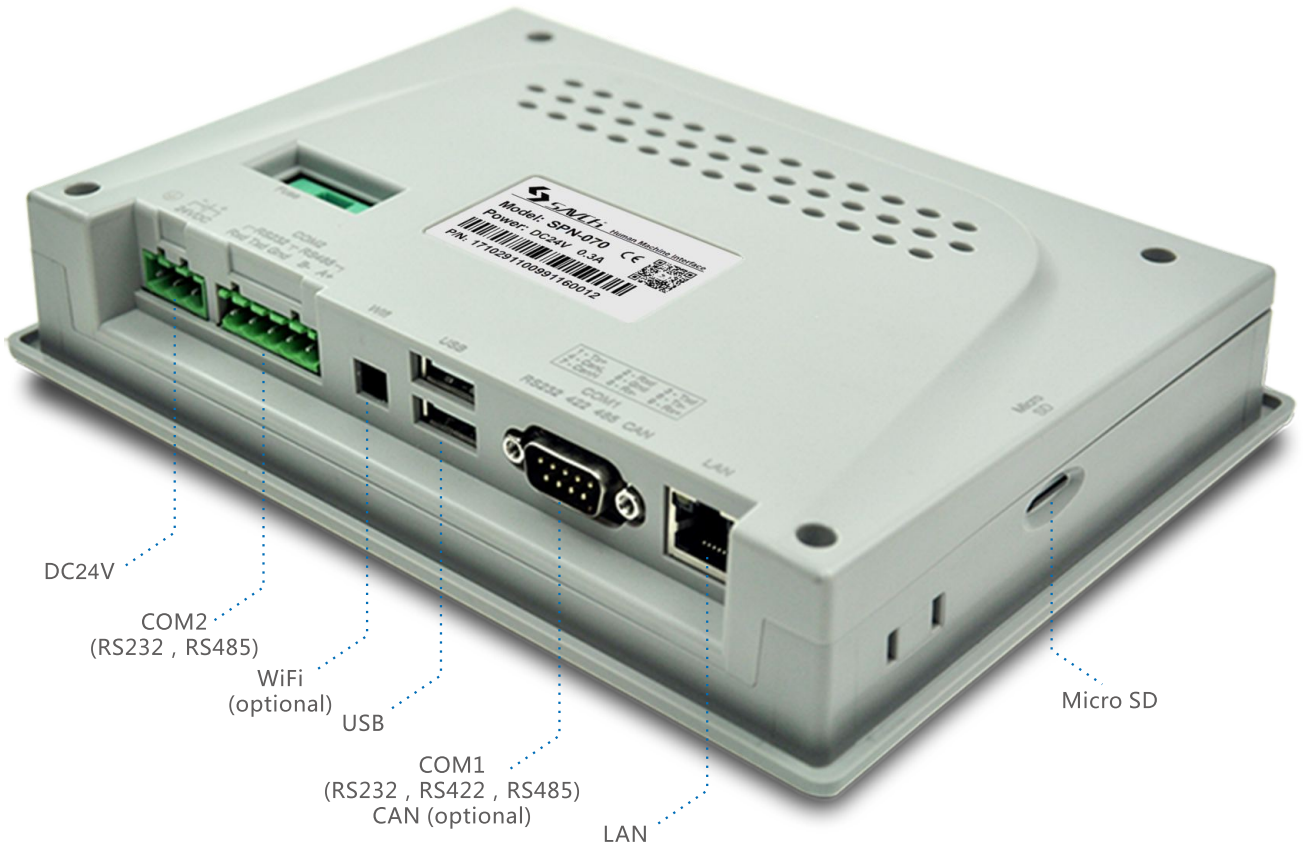


【 Camera Remote Monitoring 】

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



HMI PORT

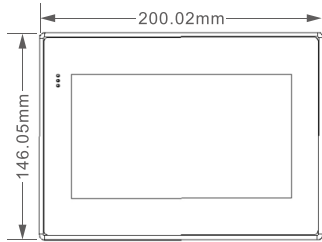


PARAMETER COMPARE

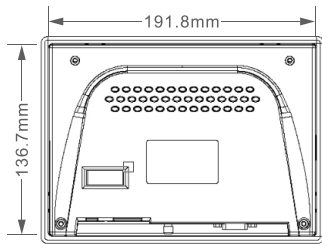
Specification	Model	SPN-070	SPN-101
Display	Displayer	7" TFT	10.1" TFT
	Resolution	800×480pixels	1024×600pixels
	Colors	16.7M	16.7M
	Brightness	300	350
	Contrast Ratio	800:1	500:1
	Touch Type	Resistive Type	Resistive Type
Backlight	Backlight Type	LED	LED
	Backlight Life Time	20,000 hours	20,000 hours
	Automatic Dormancy Function	Support and Configurable	Support and Configurable
Platform		TI ARM3352 platform	TI ARM3352 platform
Software		SavchSoft_HMI editing software	SavchSoft_HMI editing software
Processor	CPU	Cortex A8 800MHz	Cortex A8 800MH
Memory	Flash	4GB EMMC	4GB EMMC
	RAM	DDR3 512M	DDR3 512M
Power	Input power	DC24V±20%	DC24V±20%
	Power Consumption	5W	9W
	Power Isolation	Buit-in	Buit-in
	Voltage Resistance	AC500V	AC500V
	Isolation Resistance	Exceed 50MΩ @DC500V	Exceed 50MΩ @DC500V
	Vibration Endurance	10~25Hz (X、Y、Z direction 2G/30 minutes)	10~25Hz (X、Y、Z direction 2G/30 minutes)
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	USB2.0×2	USB2.0×2
	Print Port	COM Port/USB print	COM Port/USB print
	HDMI	/	Optional
	CAN	Optional	Optional
Environment	Cooling Type	Ventilation Cooling	Ventilation 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)
Specification	Enclosure	Engineering Plastic ABS (Flame-retardant level)	Engineering Plastic ABS (Flame-retardant level)
	Dimensions (W×H×D)	200×146×37mm	270×212×35mm
	Panel Cutout (W×H)	193×138mm	260×202mm
	Weight	About 0.7kg	About 1.2kg
Certification	CE Certification	Comply with CE certification standard	Comply with CE certification standard

DIMENSIONS

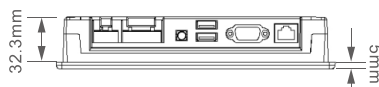
【SPN-070】



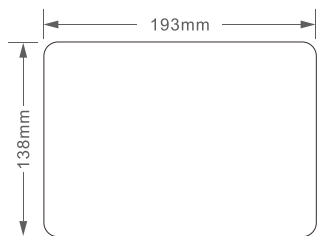
Front View



Back View

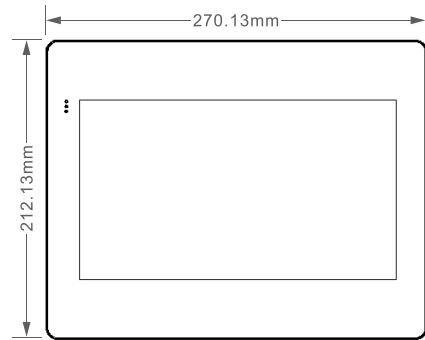


Bottom View

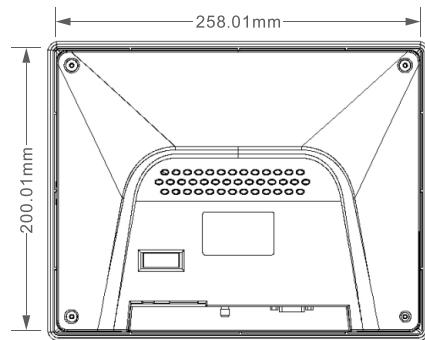


Panel Cutout

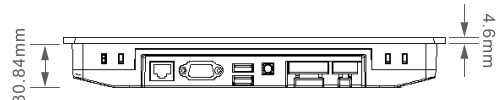
【SPN-101】



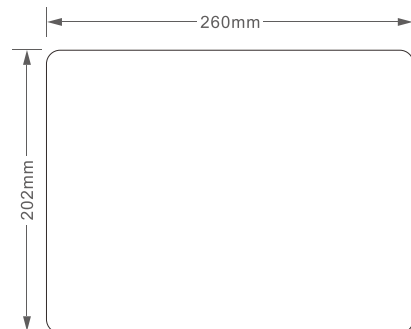
Front View



Back View



Bottom View



Panel Cutout

COOPERATIVE CLIENT



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☐ **Service Network** _____
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☐ **Qualification** _____
Received **ISO9001, ISO14001, ISO45001** and **CE** recognition
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Sales service contact address



SAVCH Wechat
Service Number