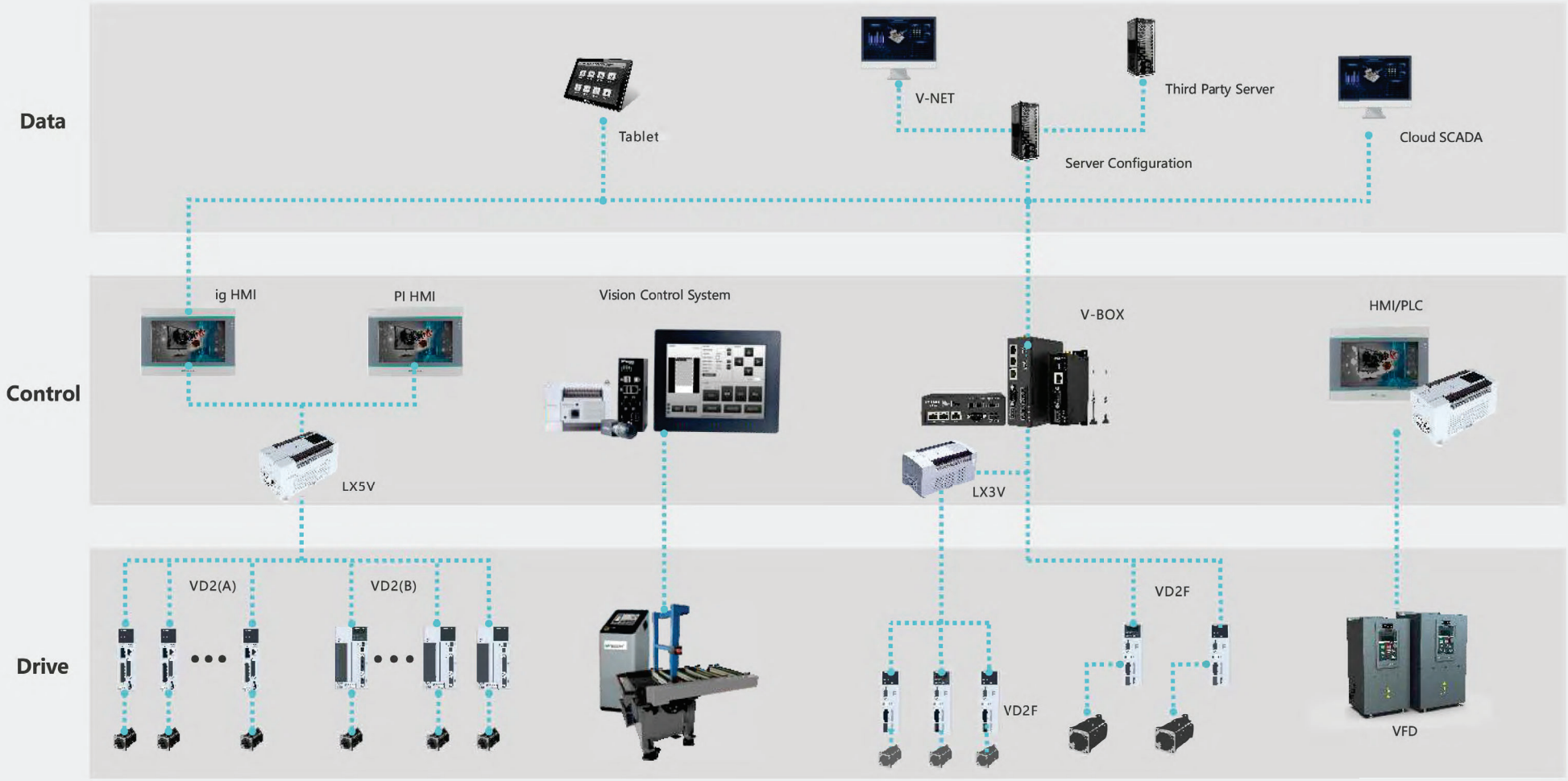
ISV TECHNO
INNOVATIVE SOLUTION. VALUABLE TECHNOLOGY

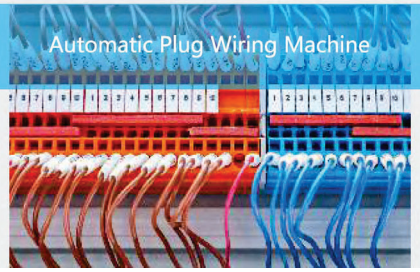
General Com
comet
Soluzioni avanzate per l'automazione

# HMI Brochure 2023

HMI Brochure 2023

# PRODUCTS ARCHITECTURE



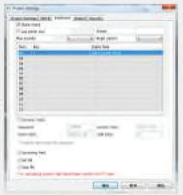


# HMI

# ig Series IoT HMI

ig IoT HMI, create for the Internet of Things

## Installation



Installation function
Users can set fixed installment or dynamic installment in HMI in advance to help customers effectively recover the unsettled balance within a certain period of time.

## HMI Recipe

Users can configure the recipe file data on the HMI, and easily switch between different production modes.

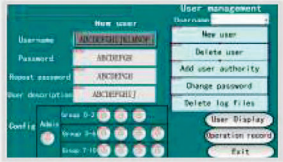
## Device Management

- Multi-device management
- Multi-authority account

## Alarm Notification

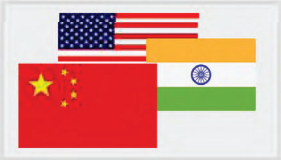
- Alarm SMS push(4G models)
- Upload and download alarm records

## User Permission Management




The HMI project can set the user permission and usage permission for different users to protect operation of the device.

## Multi-language Display



Wecon HMI supports maximum 8 languages, facilitating the use of HMI in many countries.

## Remote Maintenance

- Sync data to cloud
- Remote access
- WVPN pass-through
- Remote debug

## System Integration

- Cloud SCADA
- Big screen display
- Equipment connection

## PI8150ig High Definition IoT HMI

Aluminium Alloy Panel

High-definition

Wide Viewing Angle

## PI3000ie Series HMI

Quad Core CPU

Fast and Fluent Touch

### Big Screen

More convenient operation
Display in high-definition and high quality

1920×1080

### Aluminium Alloy Panel

Strong anti-interference, excellent heat dissipation
Anti-corrosion, and high temperature resistance

### Fast

6 seconds for booting
100ms for screen switch

### Numerous

300+ communication protocols
50+ objects

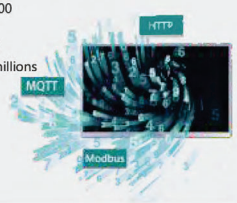
### 4-core CPU

With Cortex A35 1.2GHz high performance processor
PI8150ig has powerful operation processing capability

### Complete IoT Functions

MQTT cloud protocol and database server connection
Supported more powerful IoT functions

- Real-time Monitoring Points: 300
- Alarm Monitoring Points: 200
- History Monitoring Points: 100
- History Storage: 120 days / 1 millions




### Unique

Unique installment function
Unique user permission management
Unique data encryption function

### Reliable

Enhance software security
Better communication Stability
Waterproof and heat cooling

# ig SPECIFICATIONS

**Basic HMI**

| Model | PI3070ig | PI3102ig | PI8150ig |
|---|---|---|---|

| Item | | Specifications | | |
|---|---|---|---|---|
| CPU | | Cortex A35 1.2GHz | | |
| Touch Screen | | Resistive | | |
| Display | Screen Size | 7 Inch | 10.2 Inch | 15 Inch |
| | Resolution | 800*480 | 1024*600 | 1920*1080 |
| | Brightness | 250 cd/m² | 350 cd/m² | 250 cd/m² |
| | Backlight Type | LED | | |
| | Backlight Life | 50,000 Hours | | |
| | Colors | 16,000k colors | | 2,60k colors |
| Storage | Flash | 128 MB | | 4GB |
| | RAM | DDRIII 128MB | | DDRIII 512MB |
| | SD Card | YES | | YES (TF card) |
| I/O Port | USB | USB Host: USB 2.0 x 1; USB Client: USB 2.0 x 1 (cannot be used at the same time) | | |
| | Serial Port | Type 1: COM1(RS232), COM1(RS485), COM1(RS485)<br>Type 2: COM1(RS232), COM1(RS422), COM1(RS485) | | |
| | Ethernet | YES | | |
| | CAN | N/A | | |
| | 4G/WIFI Module | Optional | | |
| Permanent Calendar | | Built-in | | |
| Power | Power Supply | 24V DC (12~28V DC) | | 24V DC (18~28VDC) |
| | Power Consumption | <8W | <10W | <15W |
| Dimension | Enclosure | Plastic+ABS (Polycarbonate) | | Aluminum + Metal + ABS |
| | Dimension(mm) | 201.2W*147.2H*39.0D | 272.0W*191.0H*41.5D | 403.0W*253.0H*35.2D |
| | Mounting Size(mm) | 192.0W*138.0H | 260.0W*179.0H | 394.0W*244.0H |
| | Net Weight (KG) | 0.52 | 1.02 | 2.46 |
| Environment | Protection | IP65 (Front panel) | | |
| | Temperature | Storage: -20℃~70℃ | | Storage: -20℃~60℃ |
| | | Working: -10℃~55℃ | | Working: 0℃~50℃ |
| | Humidity | 10 ~ 90%RH (Non-condensing) | | |
| | Vibration Resistance | 10 ~ 25 Hz (X, Y, Z direction 2G/30 minutes) | | |
| CE Certification | | CE Marked | | |
| FCC Certification | | FCC Class A | | |
| Programming Software | | PI Studio | | |
| Software | IoT Service (optional) | Real-time Monitoring Points: 100 | | Real-time Monitoring Points: 300 |
| | | Alarm Monitoring Points: 20 | | Alarm Monitoring Points: 200 |
| | | History Monitoring Points: 50 | | History Monitoring Points: 100 |
| | | History Storage: 60 days / 1 millions | | History Storage: 120 days / 1 millions |
| | VPN Pass-through | YES | | |

# ig SPECIFICATIONS

**Basic HMI**

| Model | PI3070ig-O | PI3102ig-O |
|---|---|---|

| Item | | Specifications | |
|---|---|---|---|
| CPU | | Cortex A35 1.2GHz | |
| Touch Screen | | Resistive | |
| Display | Screen Size | 7 Inch | 10.2 Inch |
| | Resolution | 800*480 | 1024*600 |
| | Brightness | 250 cd/m² | 350 cd/m² |
| | Backlight Type | LED | |
| | Backlight Life | 50,000 Hours | |
| | Colors | 16,000k colors | |
| Storage | Flash | 128 MB | |
| | RAM | DDRIII 128MB | |
| | SD Card | YES | |
| I/O Port | USB | USB Host: USB 2.0 x 1; USB Client: USB 2.0 x 1 (cannot be used at the same time) | |
| | Serial Port | Type 1: COM1(RS232), COM1(RS485), COM1(RS485)<br>Type 2: COM1(RS232), COM1(RS422), COM1(RS485) | |
| | Ethernet | YES | |
| | CAN | N/A | |
| | 4G/WIFI Module | N/A | |
| Permanent Calendar | | Built-in | |
| Power | Power Supply | 24V DC (12~28V DC) | |
| | Power Consumption | <8W | <10W |
| Dimension | Enclosure | Plastic+ABS (Polycarbonate) | |
| | Dimension(mm) | 201.2W*147.2H*39.0D | 272.0W*191.0H*41.5D |
| | Mounting Size(mm) | 192.0W*138.0H | 260.0W*179.0H |
| | Net Weight (KG) | 0.52 | 1.02 |
| Environment | Protection | IP65 (Front panel) | |
| | Temperature | Storage: -20℃~70℃; Working: -10℃~55℃ | |
| | Humidity | 10 ~ 90%RH (Non-condensing) | |
| | Vibration | 10 ~ 25 Hz (X, Y, Z direction 2G/30 minutes) | |
| CE Certification | | CE Marked | |
| FCC Certification | | FCC Class A | |
| Programming Software | | PI Studio | |
| Remote Control | | N/A | |

# PI3000ie SPECIFICATIONS

## Basic HMI

| Model | | PI3035ie | PI3043ie | PI3043ieS-N |
|---|---|---|---|---|
| Item | | Specifications | | |
| CPU | | Cortex A35 1.2GHz | | |
| Touch Screen | | Resistive | | |
| Display | Screen Size | 3.5 Inch | 4.3 Inch | 4.3 Inch |
| | Resolution | 320*240 | 480*272 | |
| | Brightness | 300cd/㎡ | | |
| | Backlight Type | LED | | |
| | Backlight Life Time | 50,000 Hours | | |
| | Colors | 16,000k colors | | |
| Storage | Flash | 128MB | | |
| | RAM | DDRII 64MB | | |
| | SD Card | N/A | | |
| | RTC | Real Time Clock | | |
| I/O Port | Micro-USB | USB 2.0 x 1 | | |
| | Serial Port | Type 1: COM1(RS232), COM1(RS485)<br>Type 2: COM1(RS232), COM1(RS422) | Type 1: COM1(RS232), COM1(RS485)<br>Type 2: COM1(RS232), COM1(RS422) | Type 1: COM1(RS232), COM1(RS485), COM1(RS485)<br>Type 2: COM1(RS232), COM1(RS422), COM1(RS485) |
| | Ethernet | N/A | N/A | YES |
| Permanent Calendar | | Built-in | | |
| Power | Power Supply | 24V DC(12~28V DC) | | |
| | Power Consumption | < 5W | | |
| Dimension | Enclosure | Plastic+ABS（Polycarbonate） | | |
| | Dimension(mm) | 96.0W*81.0W*33D | 142.0W*86.0H*30.3D | |
| | Mounting Size (mm) | 91.0W*73.0D | 131.0W*78.0H | |
| | Net Weight (KG) | 0.14 | 0.19 | |
| Environment | Protection | IP65 (Front panel) | | |
| | Temperature | Storage: -20℃~70℃； Working: -10℃~55℃ | | |
| | Humidity | 10 ~ 90%RH (Non-condensing) | | |
| | Vibration Resistance | 10 ~ 25 Hz (X, Y, Z direction 2G/30 minutes) | | |
| CE Certification | | CE Marked | | |
| Programming Software | | PI Studio | | |
| Remote Control | | N/A | | |

# PI3000ie SPECIFICATIONS

## Basic HMI

| Model | | PI3070ie | PI3102ie |
|---|---|---|---|
| Item | | Specifications | |
| CPU | | Cortex A35 1.2GHz | |
| Touch Screen | | Resistive | |
| Display | Screen Size | 7 Inch | 10.2 Inch |
| | Resolution | 800*480 | 1024*600 |
| | Brightness | 250 cd/m² | 350 cd/m² |
| | Backlight Type | LED | |
| | Backlight Life Time | 50,000 Hours | |
| | Colors | 16,000k colors | |
| Storage | Flash | 128MB | |
| | RAM | DDRII 64MB | |
| | SD Card | NA | |
| Ports | USB | USB Host: USB 2.0 x 1； USB Client: USB 2.0 x 1 | |
| | Serial Port | Type 1: COM1(RS232), COM1(RS485)<br>Type 2: COM1(RS232), COM1(RS422) | |
| | Ethernet | N/A | |
| Permanent Calendar | | Built-in | |
| Power | Power Supply | 24V DC(12~28V DC) | |
| | Power Consumption | < 8W | < 10W |
| Dimension | Enclosure | Plastic+ABS（Polycarbonate） | |
| | Dimension(mm) | 201.2W*147.2H*39.0D | 272.0W*191.0H*41.5D |
| | Mounting Size (mm) | 192.0W*138.0H | 260.0W*179.0H |
| | Net Weight (KG) | 0.52 | 1.02 |
| Environment | Protection | IP65 (Front panel) | |
| | Temperature | Storage: -20℃~70℃； Working: -10℃~55℃ | |
| | Humidity | 10 ~ 90%RH(Non-condensing) | |
| | Vibration Resistance | 10 ~ 25 Hz (X, Y, Z direction 2G/30 minutes) | |
| CE Certification | | CE Marked | |
| Programming Software | | PI Studio | |
| Remote Control | | N/A | |

# PI3000i SPECIFICATIONS

**Basic HMI**

| Model | PI3070i | PI3070i-2S | PI3070i-A | PI3070i-SL | Pi3070i-SL-N |
|---|---|---|---|---|---|

| Item | | Specifications | | | | |
|---|---|---|---|---|---|---|
| CPU | | Cortex A7 528MHz | | | | |
| Touch Screen | | Resistive | | | | |
| Display | Screen Size | 7 Inch | | | | |
| | Resolution | 800*480 | | | | |
| | Brightness | 250 cd/m² | | | | |
| | Backlight Type | LED | | | | |
| | Backlight Life Time | 50,000 Hours | | | | |
| | Colors | 16,000k colors | | | | |
| Storage | Flash | 128MB | | | | |
| | RAM | DDRIII 128MB | | | | |
| | SD Card | NA | YES | YES | NA | NA |
| | RTC | YES | | | | |
| I/O Ports | USB | USB Host: USB 2.0 x 1; USB Client: USB 2.0 x 1 | | | | |
| | Serial Port | RS232, RS422/RS485 (2 in 1) | COM1: RS232,RS422/RS485<br>COM2: RS232,RS485<br>COM3: RS485 | | RS232, RS422/RS485 (2 in 1) | |
| | Ethernet | N/A | YES | YES | N/A | YES |
| | CAN | N/A | N/A | YES | N/A | N/A |
| Permanent Calendar | | Built-in | | | | |
| Power | Power Supply | 24V DC(12~28V DC) | | | | |
| | Power | < 8W | | | | |
| Dimension | Enclosure | Plastic+ABS (Polycarbonate) | | | | |
| | Dimension(mm) | 201.2W*147.2H*39.0D | 200.0W*146.0H*36.5D | | 191.2W*137.2H*41.0D | |
| | Mounting Size | 192.0W*138.0H | 192.0W*138.0H | | 172.0W*111.0H | |
| | Net Weight (KG) | 0.51 | 0.51 | | 0.52 | |
| Environment | Protection | IP65 (Front panel) | | | | |
| | Temperature | Storage: -20℃~70℃; Working: -10℃~55℃ | | | | |
| | Humidity | 10 ~ 85%RH(Non-condensing) | | | | |
| | Vibration | 10 ~ 25 Hz (X, Y, Z direction 2G/30 minutes) | | | | |
| CE Certification | | CE Marked | | | | |
| FCC Certification | | FCC Class A | | | | |
| Programming Software | | PI Studio | | | | |
| Remote Control | | N/A | | | | |

# PI3000i SPECIFICATIONS

**Basic HMI**

| Model | PI3102i | PI3102i-2S | PI3102i-A |
|---|---|---|---|

| Item | | Specification | | |
|---|---|---|---|---|
| CPU | | Cortex A7 528MHz | | |
| Touch Screen | | Resistive | | |
| Display | Screen Size | 10.2inch | | |
| | Resolution | 1024*600 | | |
| | Brightness | 350 cd/㎡ | | |
| | Backlight Type | LED | | |
| | Backlight Life | 50,000 Hours | | |
| | Colors | 16,000k colors | | |
| Storage | Flash | 128MB | | |
| | RAM | DDRIII 128MB | | |
| | SD Card | YES | | |
| | RTC | YES | | |
| I/O Port | USB | USB Host: USB 2.0 x 1; USB Client: USB 2.0 x 1 | | |
| | Serial Port | RS232, RS422/RS485 (2 in 1) | COM1: RS232,RS422/RS485<br>COM2: RS232,RS485<br>COM3: RS485 | COM1: RS232 ,RS422/RS485、CAN<br>COM2: RS232,RS485<br>COM3: RS485 |
| | Ethernet | YES | | |
| | CAN | N/A | | YES |
| Permanent Calendar | | Built-in | | |
| Power | Power Supply | 24V DC(12~28V DC) | | |
| | Power Consumption | <10W | | |
| Dimension | Enclosure | Plastic+ABS (Polycarbonate) | | |
| | Dimension(mm) | 272.0W * 191.0H * 41.5D | 272.0W * 190.7H * 41.3D | |
| | Mounting Size(mm) | 260.0W * 179.0H | | |
| | Net Weight (KG) | 1.00KG | 12KG | |
| Environment | Protection | IP65 (Front panel) | | |
| | Temperature | Storage :-20℃~70℃; Working :-10℃~55℃ | | |
| | Humidity | 10 ~ 85%RH (Non-condensing) | | |
| | Vibration | 10 ~ 25 Hz (X, Y, Z direction 2G/30 minutes) | | |
| CE Certification | | CE Marked | | |
| FCC Certification | | FCC Class A | | |
| Programming Software | | PI Studio | | |
| Remote Control | | N/A | | |

ISV TECHNO
INNOVATIVE SOLUTION. VALUABLE TECHNOLOGY

General Com
comet
Soluzioni avanzate per l'automazione

**ISV Techno Sagl**
Via Ligornetto 6/A
6855 Stabio (Svizzera)
T: +41 (0) 91 225 81 00
www.isvtechno.com