

IIoT

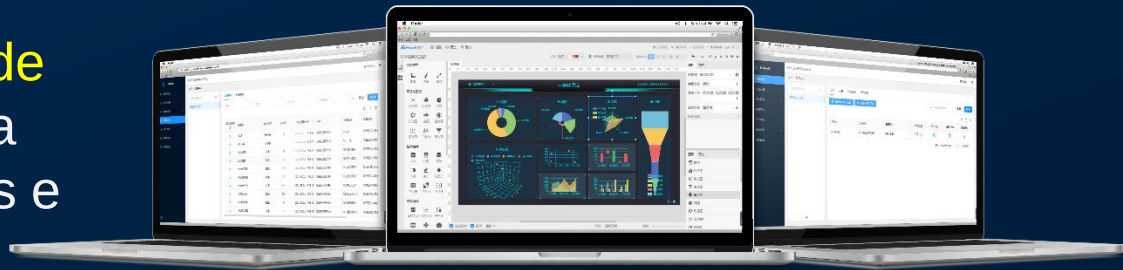
Industrial
Internet of Things

(HAIWELL) WEB SCADA

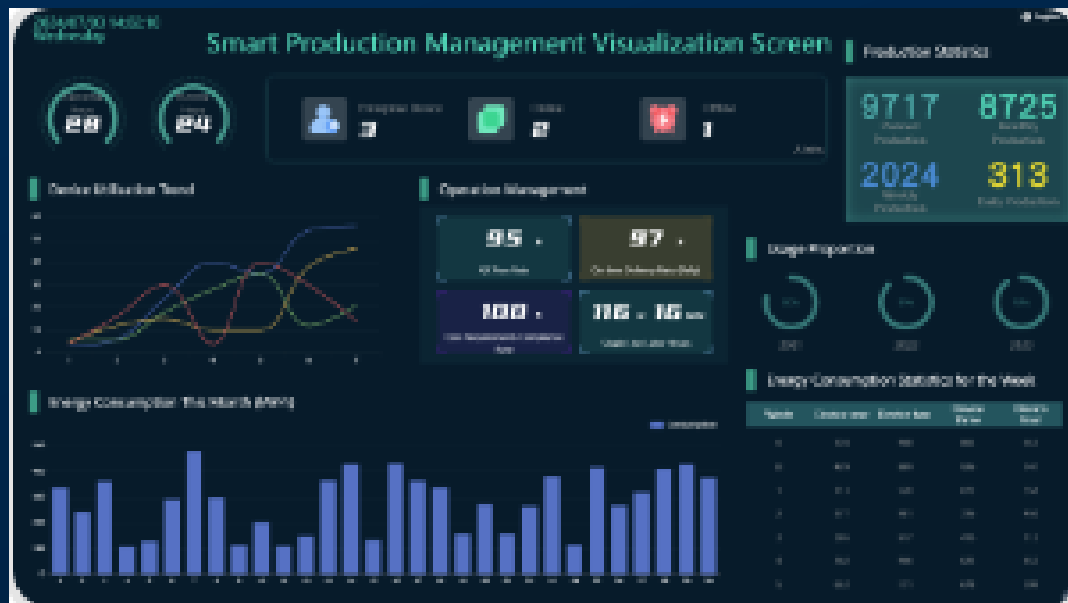


introdução

Haiwell Web SCADA é uma ferramenta on-line para construir telas em monitores de grandes dimensões com uma ampla variedade de templates e ícones que facilitam a configuração das telas.



Processamento dos dados



Permite apresentar os dados na forma de displays numéricos, gráficos históricos, tendências e funções de controle em tempo real.

Acesso a dispositivos

Acesso rápido e fácil aos dados dos dispositivos de campo para apresentar em grandes telas de centros de controle. Fácil interação e apresentação de, dados em tempo real, dados históricos, imagens de câmeras, microfones, som, alarmes, etc.



Editor Web SCADA

01

Suporta tanto computadores quanto dispositivos móveis

03

Gráficos elegantes para controle industrial moderno

05

Objetos visuais que suportam diversas fontes de dados

02

What you see is what you get, editor de telas interativo

04

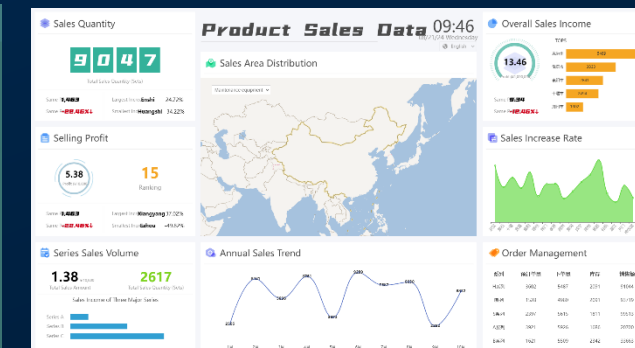
Editor intuitivo, não requer conhecimento prévio

06

Temas visuais inovadores e objetos gráficos de fácil visualização



10:08:45 Workshop Management Monitoring and Analysis Board 29 Jun 2020



Veja como configurar!

Sequência de configuração

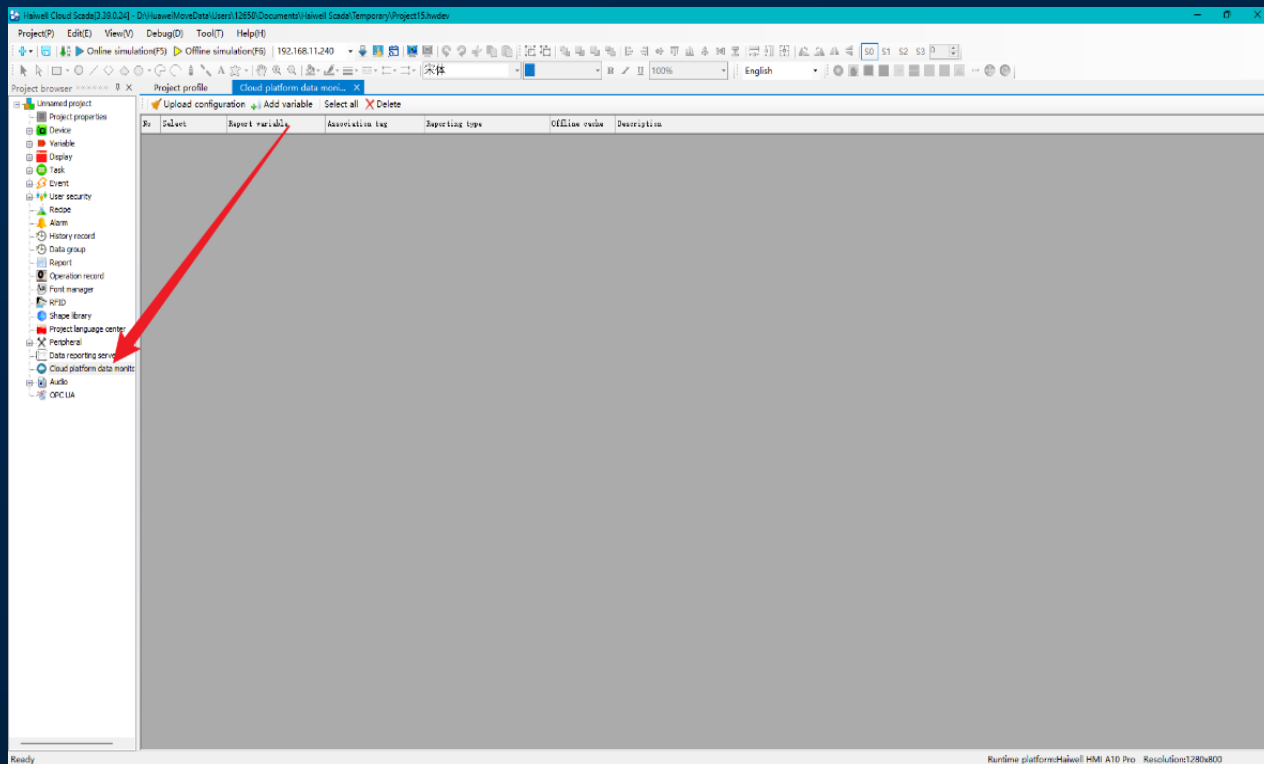


01 Cloud platform data monitoring

———— Industrial Internet of Things ————

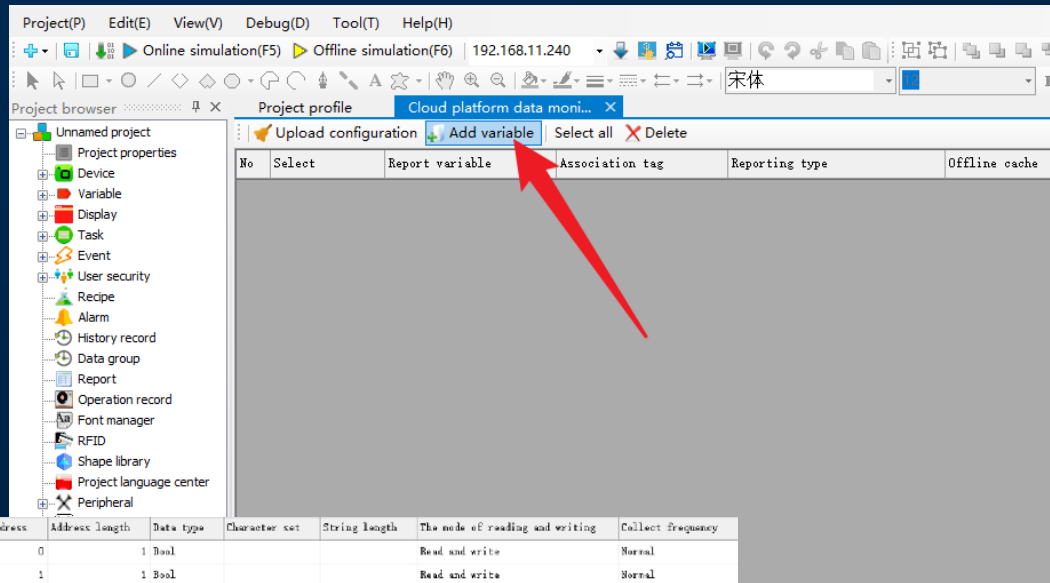
01 Cloud platform data monitoring

- ① Abrir o **Haiwell Cloud SCADA**
- ② Seleccione **【 Cloud Platform Data Monitoring 】**



02 Adicione variáveis

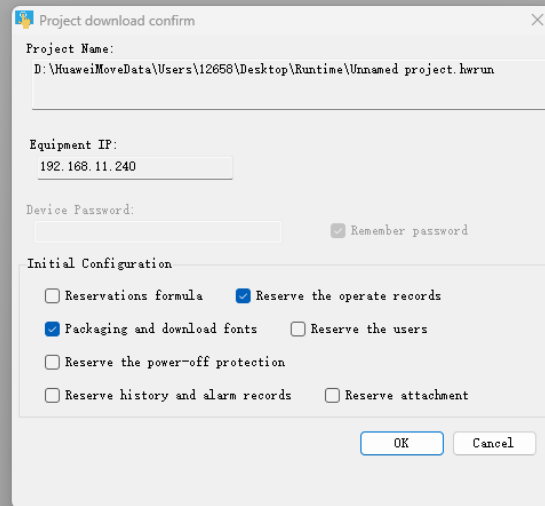
- ① Clique em **Add Variable**
- ② Adicione as variáveis à lista



	Variable name	Register type	Address format	Register address	Address length	Data type	Character set	String length	The mode of reading and writing	Collect frequency
1	Y0	I(External output relay)	Decimal	0	1	Bool			Read and write	Normal
2	Y1	I(External output relay)	Decimal	1	1	Bool			Read and write	Normal
3	Y2	I(External output relay)	Decimal	2	1	Bool			Read and write	Normal
4	Y3	I(External output relay)	Decimal	3	1	Bool			Read and write	Normal
5	Y4	I(External output relay)	Decimal	4	1	Bool			Read and write	Normal
6	Y5	I(External output relay)	Decimal	5	1	Bool			Read and write	Normal
7	Y6	I(External output relay)	Decimal	6	1	Bool			Read and write	Normal
8	Y7	I(External output relay)	Decimal	7	1	Bool			Read and write	Normal
9	Light_Control	M(Auxiliary relay)	Decimal	0	1	Bool			Read and write	Normal
10	Count	V(Internal data register)	Decimal	0	1	Integer			Read and write	Normal
11	Alarm	M(Auxiliary relay)	Decimal	1	1	Bool			Read and write	Normal
12	OPID	V(Internal data register)	Decimal	1	1	String	System default	10	Read and write	Normal
*										

03 Download project

Download - envie o projeto para a IHM



The screenshot shows a 'Project download confirm' dialog box with the following fields and options:

- Project Name:** D:\HusweiMoveData\Users\12658\Desktop\Runtime\Unnamed project.hwrn
- Equipment IP:** 192.168.11.240
- Device Password:** (empty field) with a ☒ Remember password checkbox.
- Initial Configuration:**
 - ☐ Reservations formula
 - ☒ Reserve the operate records
 - ☒ Packaging and download fonts
 - ☐ Reserve the users
 - ☐ Reserve the power-off protection
 - ☐ Reserve history and alarm records
 - ☐ Reserve attachment

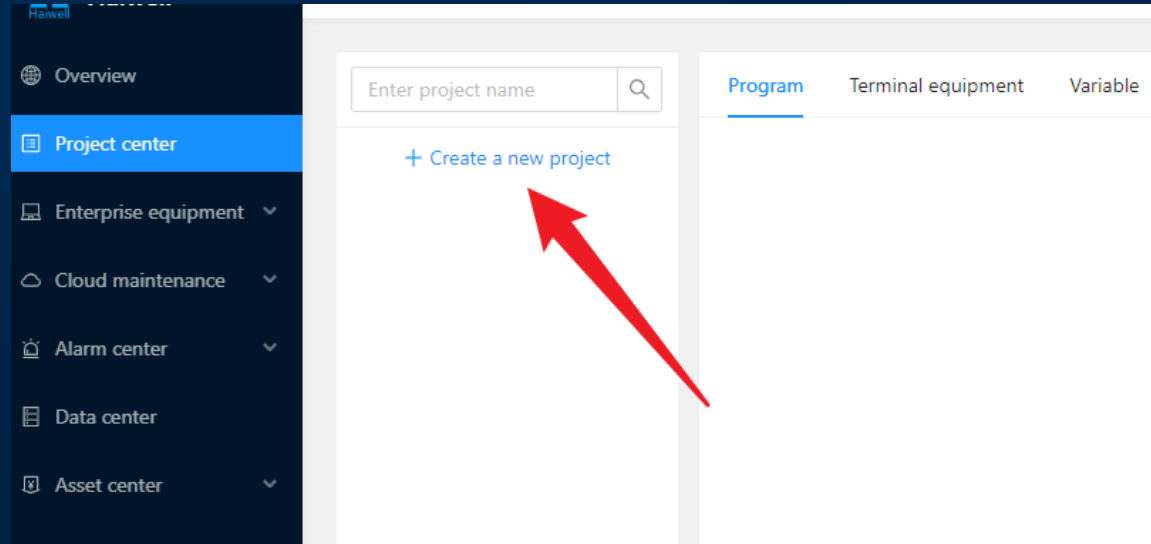
At the bottom right are 'OK' and 'Cancel' buttons.

02 Novo projeto

———— Industrial Internet of Things ————

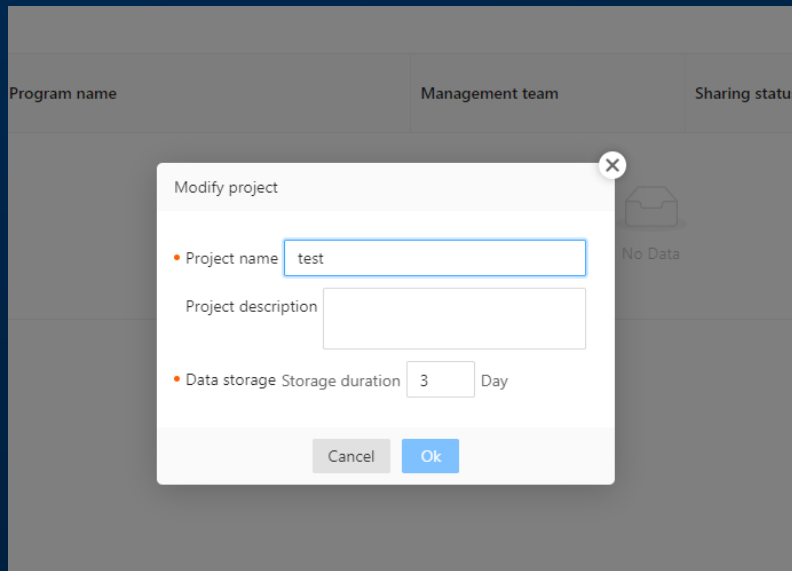
01 Novo projeto

- ① Abra o browser
- ② Faça login na plataforma Enterprise
- ③ Selecione **Project Center** no menu
- ④ Clique em **[New Project]**



02 Configuração

- ① Escolha um nome para o projeto
- ② Clique [OK]



The screenshot shows a 'Modify project' dialog box overlaid on a blurred background of a software interface. The dialog box has a title bar with a close button (X). It contains the following fields and controls:

- Project name:** A text input field containing the word 'test'.
- Project description:** A larger text input field, currently empty.
- Data storage:** A label followed by a 'Storage duration' input field containing the number '3', and the word 'Day'.
- Buttons:** 'Cancel' and 'Ok' buttons at the bottom right.

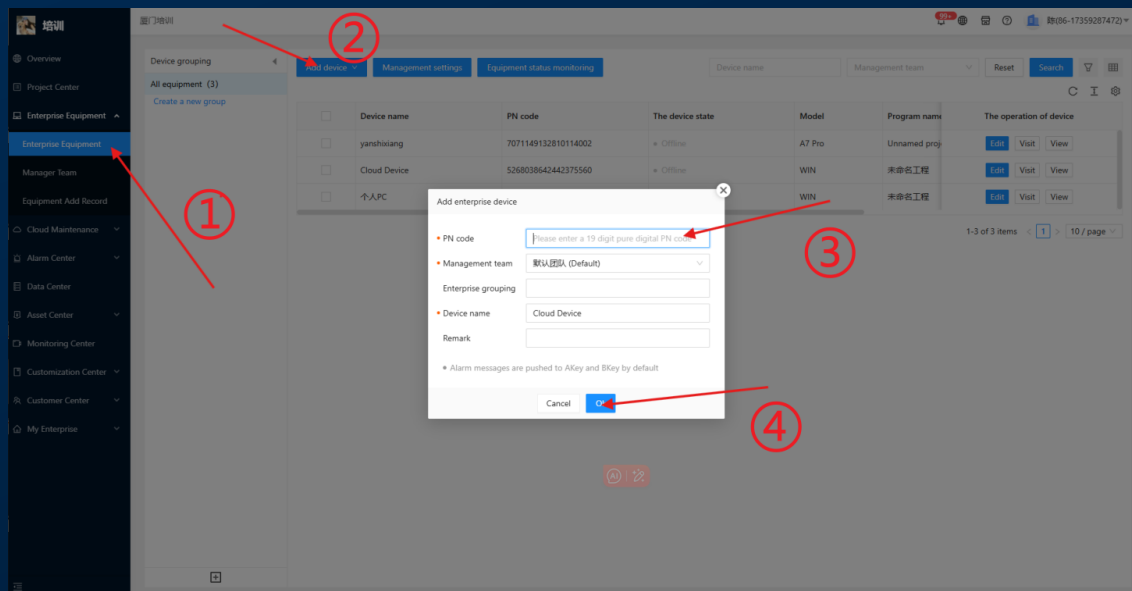
The background interface shows a table with headers: 'Program name', 'Management team', and 'Sharing status'. Below the headers, there is a placeholder icon and the text 'No Data'.

03 Vincule dispositivos e sincronize variáveis

———— Industrial Internet of Things ————

01 Vincule o dispositivo

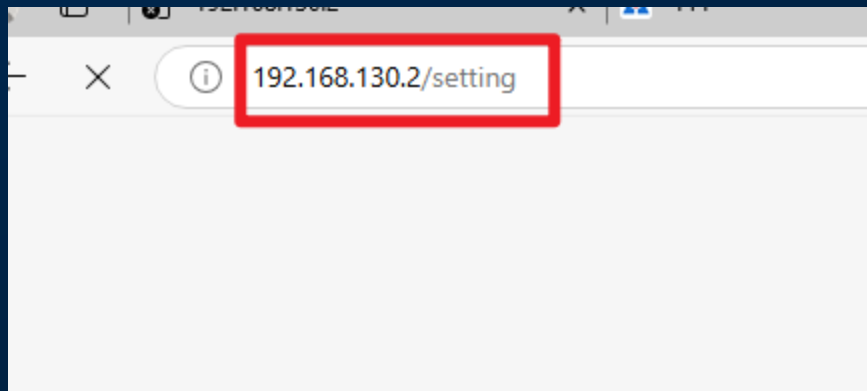
- ① Clique [Enterprise Equipment]
- ② Clique [Add device]
- ③ Entre o PN code
- ④ Clique [OK]



01 Vincule o dispositivo

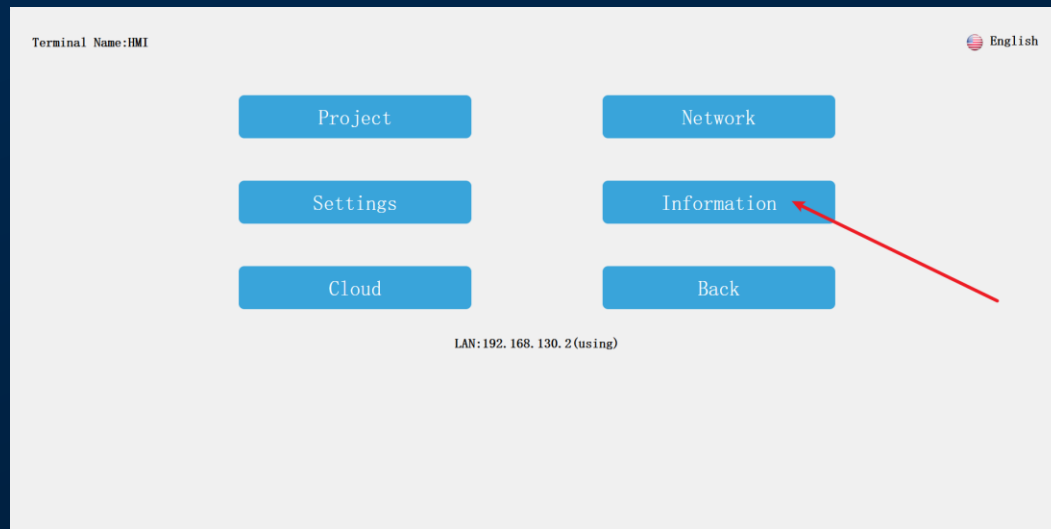
Entre com o endereço IP do dispositivo + /setting no browser

Exemplo: 192.168.130.2/setting



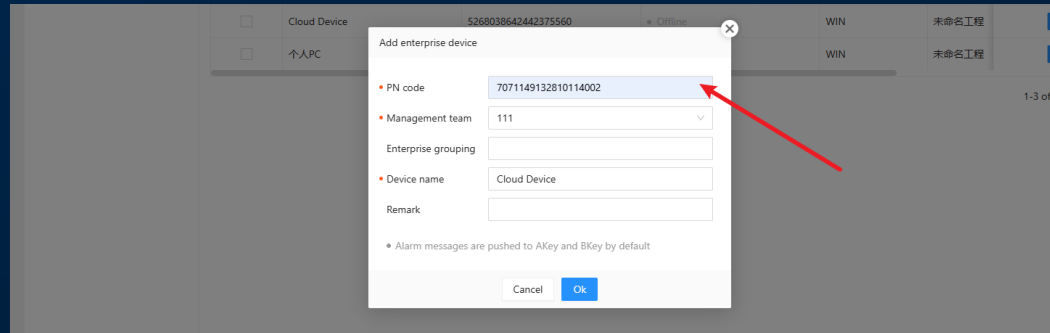
01 Vincule o dispositivo

Clique [Information]
para ajustar os detalhes
do dispositivo



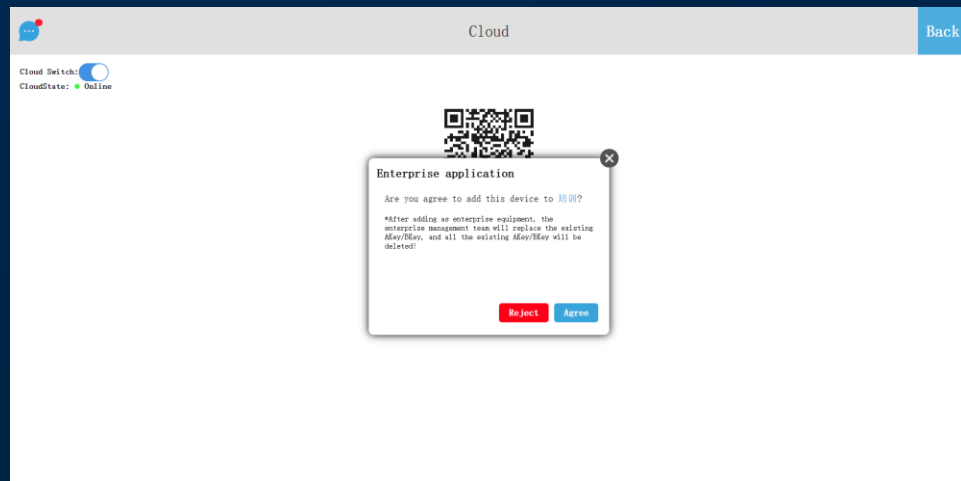
01 Vincule o dispositivo

Clique no ícone 【 📄 】
para copiar o código
PN do dispositivo



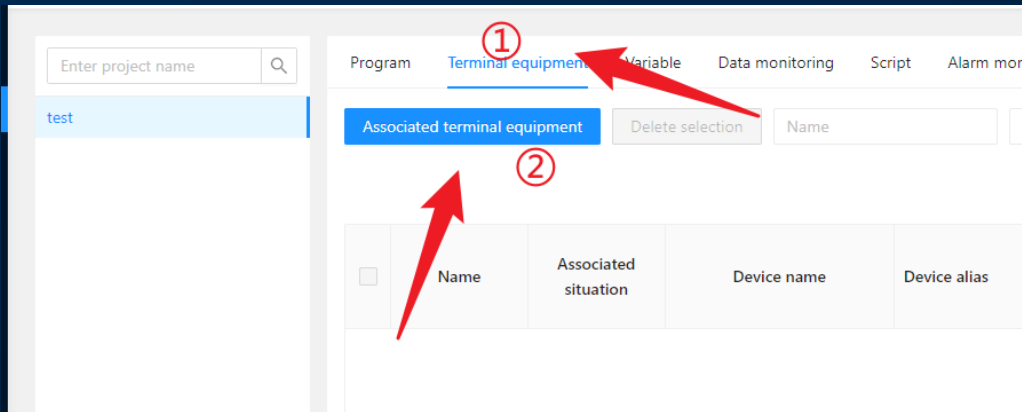
01 Vincule o dispositivo

Clique **agree** no dispositivo



02 Associe o dispositivo

- ① Clique na aba [Terminal Device]
- ② Clique [Associate Terminal Device]



03 Selezione o dispositivo

- ① Selezione o dispositivo enterprise a ser adicionado
- ② Entre o nome do dispositivo
- ③ Clique [OK]

The screenshot shows a web application interface with a modal dialog titled "Associated terminal equipment". The dialog has a search bar at the top with a dropdown menu set to "Enterprise equipment", a text input for "Equipment name and P...", and buttons for "Reset" and "Search". Below the search bar is a table with two columns: "Device name" and "PN code". The table contains one row with the values "Cloud Device" and "7111829044030123613". A red circle with the number "1" is around the "Cloud Device" text. Below the table, there is a "Selected 1 Item" status bar with a "Clear" button. At the bottom of the dialog, there is a "Name" input field containing the text "test" and a "Remark" input field. A red circle with the number "2" is around the "Name" input field. A red arrow points from the "Name" input field to the "Ok" button. Below the input fields, there is a red warning message: "When multiple devices are selected, the device name is the same as the actual device name and cannot be edited." The dialog has "Cancel" and "Ok" buttons at the bottom.

Device name	PN code
Cloud Device	7111829044030123613

Selected 1 Item Clear 1-1 of 1 items < 1 > 10 / page

Name test Remark 0 ~ 50 words

When multiple devices are selected, the device name is the same as the actual device name and cannot be edited.

Cancel Ok

04 Sincronize variável

Na lista de variáveis,
clique no ícone [Variable
Manipulation]

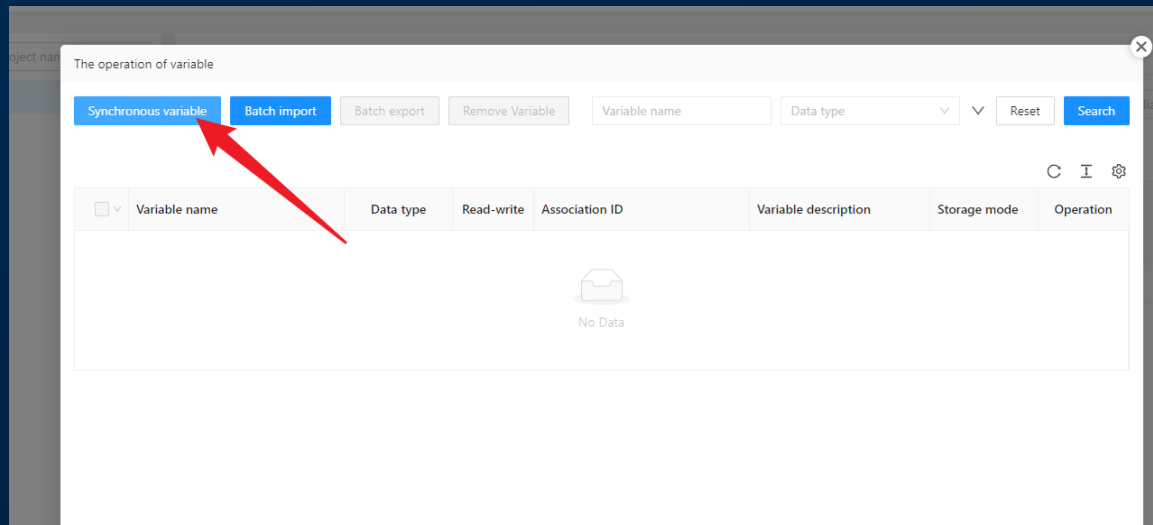
The screenshot displays the Haiwell monitoring system interface. The left sidebar shows the navigation menu with 'Project center' selected. The main area is titled 'Variable' and contains a table of variables. A red arrow points to the 'The operation of variable' column for the 'test' variable.

Name	Associated situation	Device name	Device alias	PN code	The number of variable	Equipment number	The operation of variable	Associated equipment	The operation of device
test	Connection	Cloud Device	Enterprise equ...	7111629044030123613	0	1			

1-1 of 1 items < 1 > 10 / page

04 Sincronize variável

Clique **Sync Variable**



05 Seleccione variável

- ① Seleccione a variável desejada para sincronizar
- ② Clique **[OK]**

Device report variable

Device name: Cloud Device Device alias: Enterprise equipment PN code: 7111829044030123613

Association ID Data type Reset Search

☒ Select all variables ☐ Displays only variables that are not in the device variable list

	Association ID	Data type	Device reported variable name
☒	Haiwell_PLC_1_Y0	Bool type	Haiwell_PLC_1.Y0
☒	Haiwell_PLC_1_Y1	Bool type	Haiwell_PLC_1.Y1
☒	Haiwell_PLC_1_Y2	Bool type	Haiwell_PLC_1.Y2
☒	Haiwell_PLC_1_Y3	Bool type	Haiwell_PLC_1.Y3
☒	Haiwell_PLC_1_Y4	Bool type	Haiwell_PLC_1.Y4
☒	Haiwell_PLC_1_Y5	Bool type	Haiwell_PLC_1.Y5
☒	Haiwell_PLC_1_Y6	Bool type	Haiwell_PLC_1.Y6
☒	Haiwell_PLC_1_Y7	Bool type	Haiwell_PLC_1.Y7
☒	Haiwell_PLC_1_Light_Control	Bool type	Haiwell_PLC_1.Light_Control
☒	Haiwell_PLC_1_Count	Integer type	Haiwell_PLC_1.Count

Selected 12 Item Clear 1-10 of 12 items < 1 2 > 10 / page

The synchronization device reports variables as follows:

1. The variables with new "association ID" reported by the equipment will be added to the data source variable list.
2. Variables that have not been reported by the device but have been synchronized will still be retained and will not be automatically removed.
3. If the equipment reports variables with the same "association ID", the synchronized original variables will be automatically overwritten.

Cancel Confirm

06 Visualize variável

Clique [Variable] para visualizar as variáveis sincronizadas

The screenshot shows the Haiwell software interface. On the left is a sidebar with a menu including Overview, Project center, Enterprise equipment, Cloud maintenance, Alarm center, Data center, Asset center, Monitoring Center, Customization center, Customer center, and My business. The 'Project center' is selected, and a search bar shows 'test'. The main area has a top navigation bar with tabs: Program, Terminal equipment, Variable (highlighted with a red arrow), Data monitoring, Script, Alarm monitoring, and Configuration. Below the tabs are buttons for 'Device variables' and 'Internal variables', and a 'Batch import' button. A search bar with 'Equipment', 'Data type', and 'Variable name' filters is present. The main content is a table of variables:

☐	Variable name	Equipment	Data type	Read-write	Association ID	Variable description	Storage mode	Operation
☐	Haiwell_PLC_1.RFID	test	Integer type	Read-write	Haiwell_PLC_1.RFID	-	Do not store	Edit
☐	Haiwell_PLC_1.Alarm	test	Bool type	Read-write	Haiwell_PLC_1.Alarm	-	Do not store	Edit
☐	Haiwell_PLC_1.Count	test	Integer type	Read-write	Haiwell_PLC_1.Count	-	Do not store	Edit
☐	Haiwell_PLC_1.Light_Control	test	Bool type	Read-write	Haiwell_PLC_1.Light_Control	-	Do not store	Edit
☐	Haiwell_PLC_1.Y7	test	Bool type	Read-write	Haiwell_PLC_1.Y7	-	Do not store	Edit
☐	Haiwell_PLC_1.Y6	test	Bool type	Read-write	Haiwell_PLC_1.Y6	-	Do not store	Edit
☐	Haiwell_PLC_1.Y5	test	Bool type	Read-write	Haiwell_PLC_1.Y5	-	Do not store	Edit
☐	Haiwell_PLC_1.Y4	test	Bool type	Read-write	Haiwell_PLC_1.Y4	-	Do not store	Edit
☐	Haiwell_PLC_1.Y3	test	Bool type	Read-write	Haiwell_PLC_1.Y3	-	Do not store	Edit
☐	Haiwell_PLC_1.Y2	test	Bool type	Read-write	Haiwell_PLC_1.Y2	-	Do not store	Edit

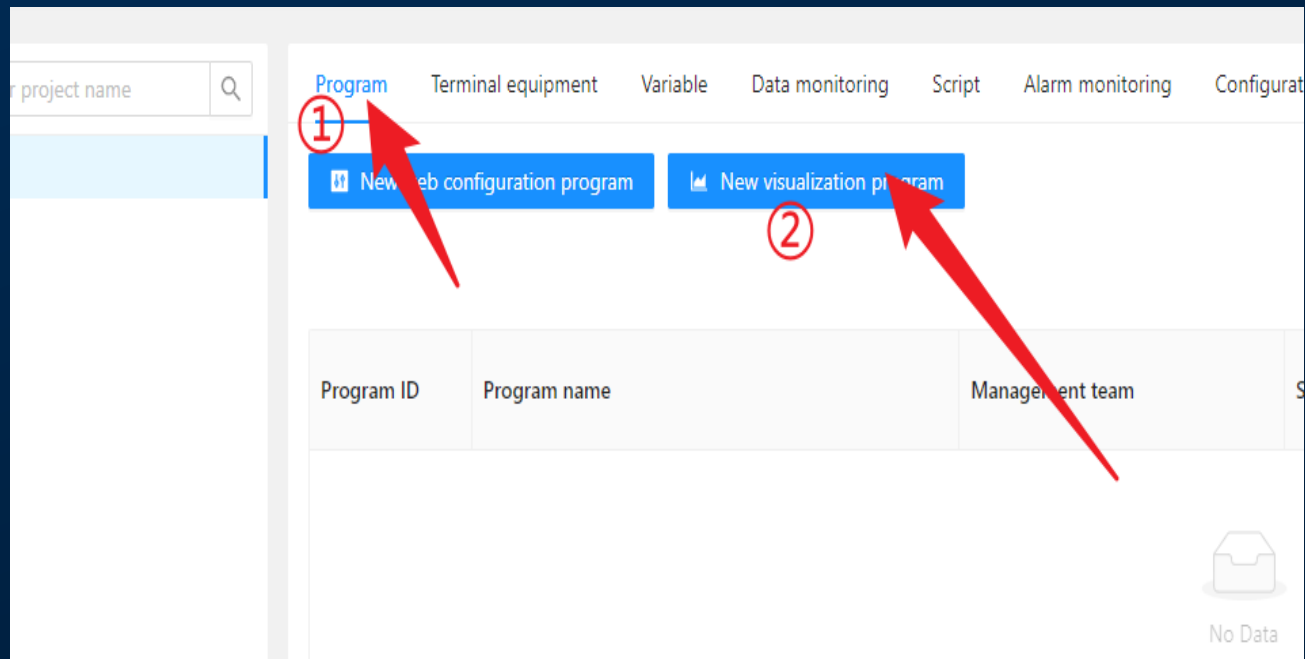
At the bottom right, it says '1-10 of 12 items' and '1 / 2'.

04 Engenharia de sistemas

———— Industrial Internet of Things ————

01 Construa um novo programa

- ① Volte para a aba **Program**
- ② Clique em **[New Visual Program]**



02 Configuração

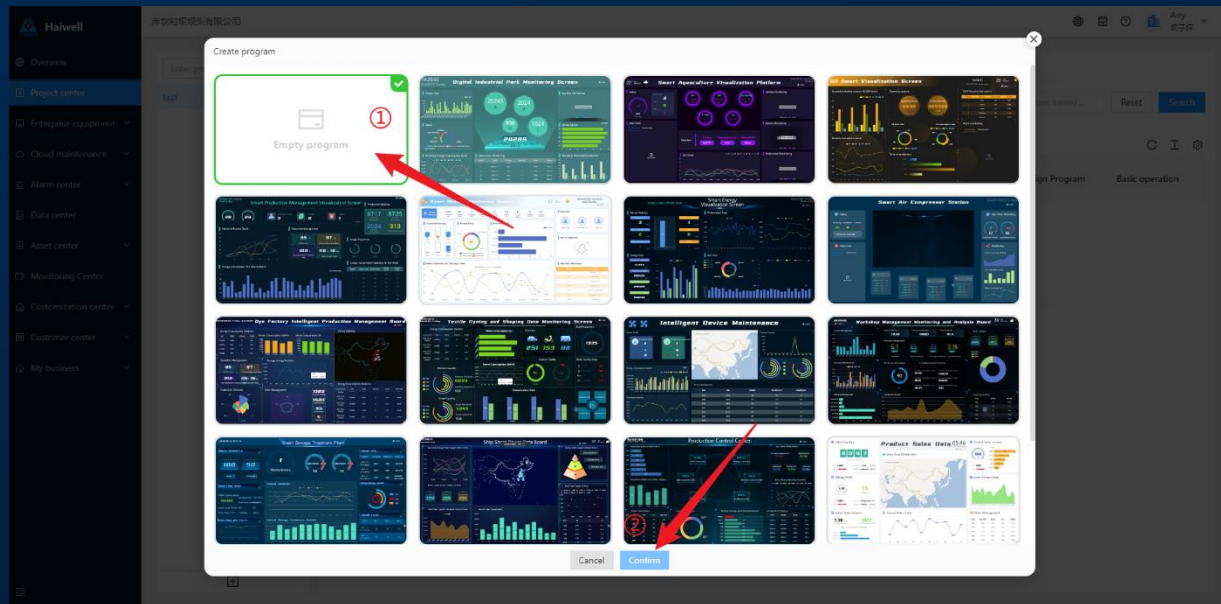
- ① Entre o nome do projeto
- ② Selecione **page type** (PC, mobile)
- ③ Clique **[Next]**

The screenshot shows a 'New visualization program' dialog box with the following fields and options:

- Program name:** A text input field containing the value 'test'. A red arrow points to this field.
- Program description:** A text input field.
- The author of Program:** A text input field.
- Page type enable:** Two checked checkboxes: 'Computer terminal' and 'Mobile terminal'. A red arrow points to the 'Mobile terminal' checkbox.
- Team settings:** A section header with a dropdown arrow.
- Management team:** A dropdown menu showing '默认团队 (Default)'.
- Buttons:** 'Cancel' and 'Next step' at the bottom.

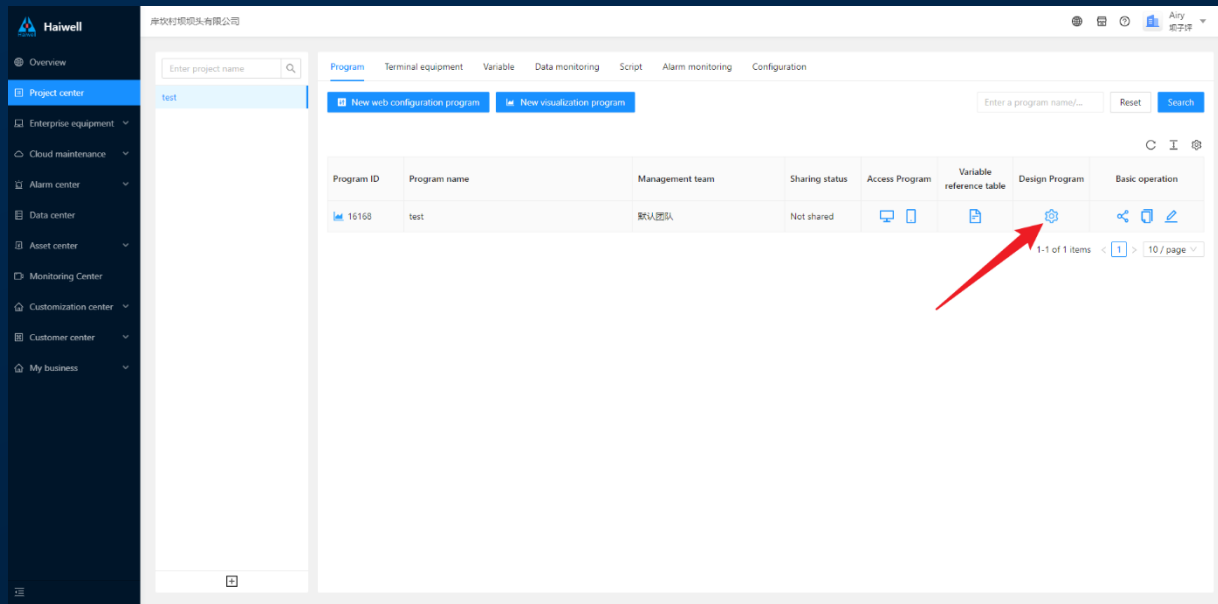
03 Definindo recursos

- ① Selecione **empty program**
- ② Clique **[OK]**



04 Design

Clique [**Design program**] para abrir o editor **Web SCADA**

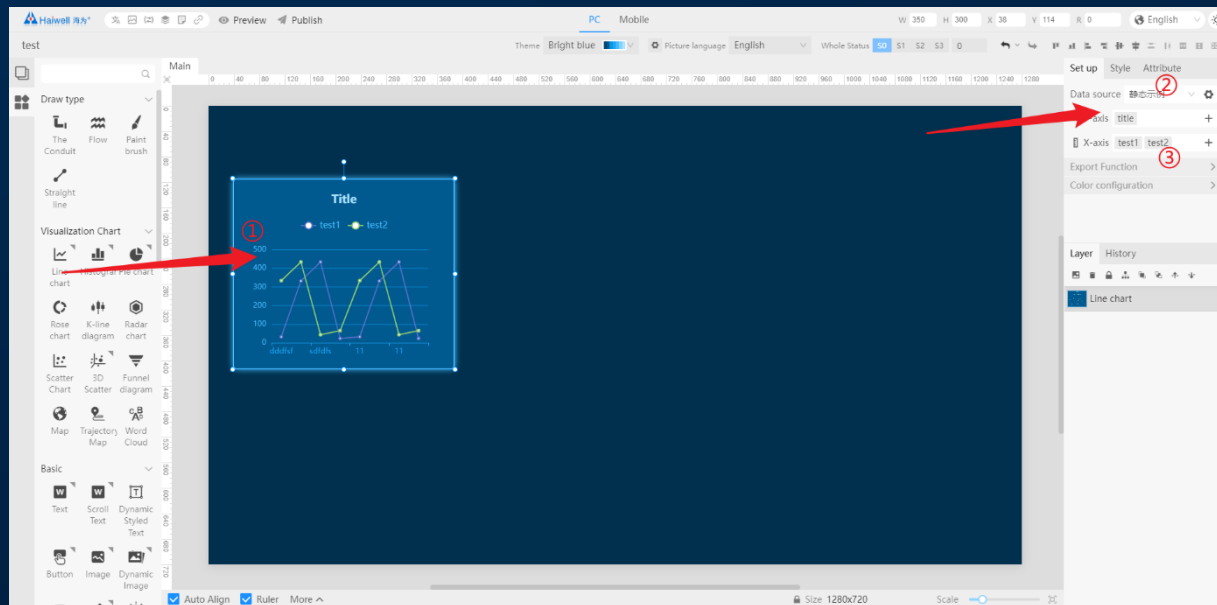


The screenshot displays the Haiwell Web SCADA interface. On the left is a dark sidebar with a menu including 'Overview', 'Project center', and various system modules. The main area is titled 'Program' and contains a search bar and two buttons: 'New web configuration program' and 'New visualization program'. Below these is a table with the following columns: Program ID, Program name, Management team, Sharing status, Access Program, Variable reference table, Design Program, and Basic operation. The table contains one row with Program ID 16168, Program name 'test', and Management team '默认团队'. A red arrow points to the 'Design Program' icon (a gear) in the table row. At the bottom right of the table, it says '1-1 of 1 items' and '10 / page'.

Program ID	Program name	Management team	Sharing status	Access Program	Variable reference table	Design Program	Basic operation
16168	test	默认团队	Not shared				

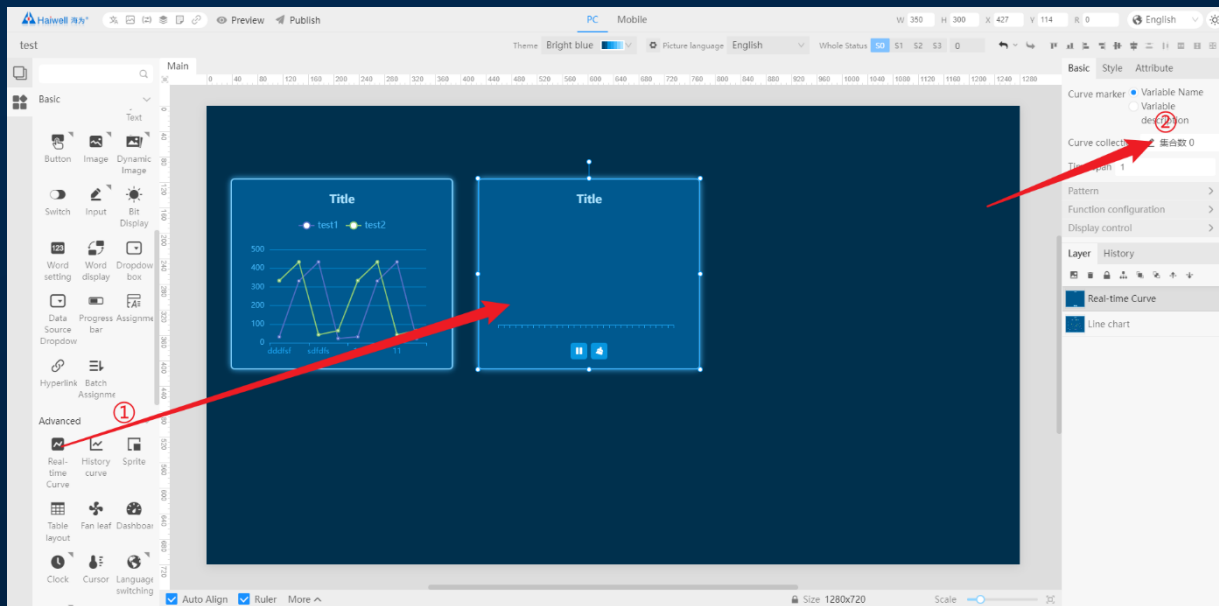
05 Gráficos

- ① Selecione the o componente **Line Chart** na categoria **visual**
- ② Selecione **data source**
- ③ Selecione os dados para os eixos X e Y



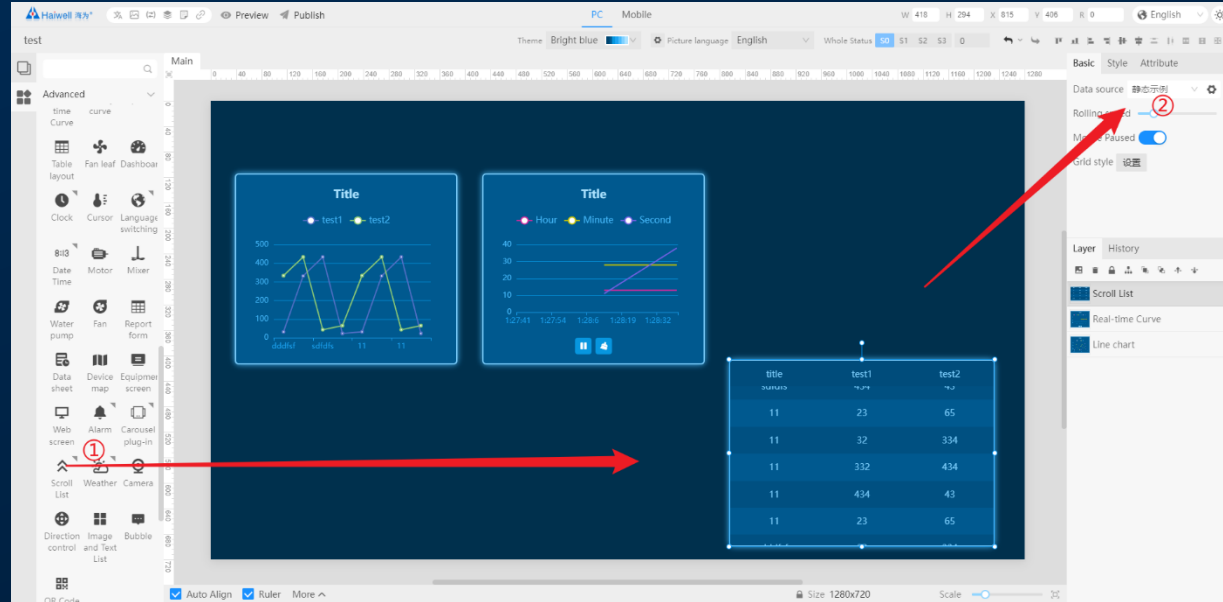
06 Curva

- ① In **Advanced Components**, seleccione o componente **Real-Time Curve**
- ② Ajuste **curve set**
- ③ Seleccione variáveis



07 Tabulação

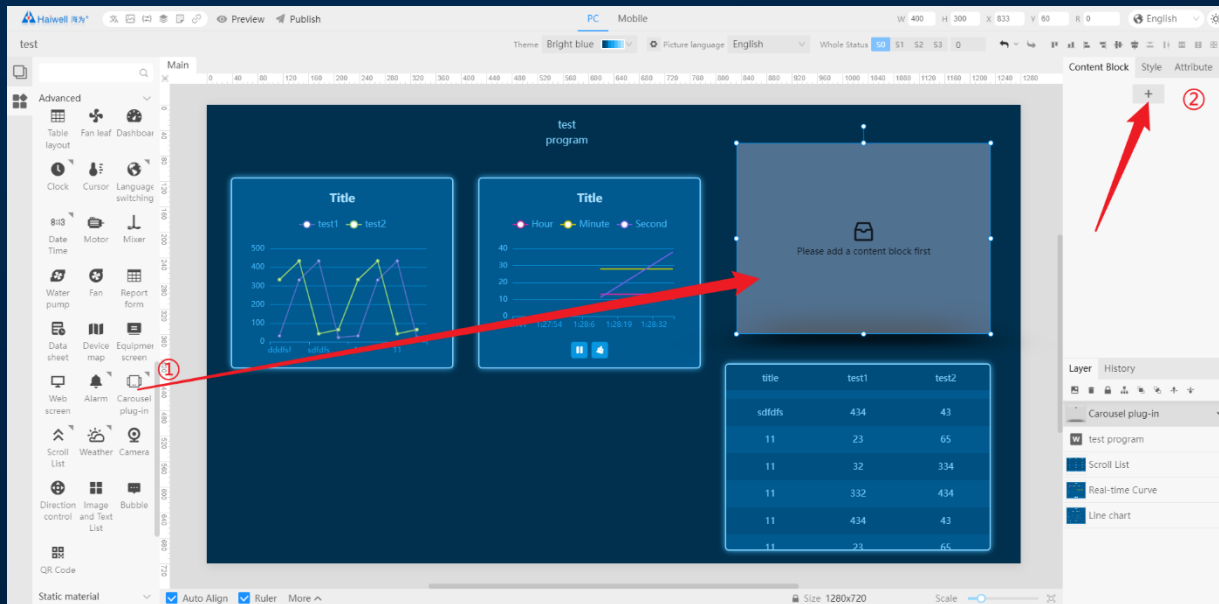
- ① Em **Advanced Components**, selecione o componente **Scroll List**
- ② Selecione a fonte dos dados



08 Carrousel

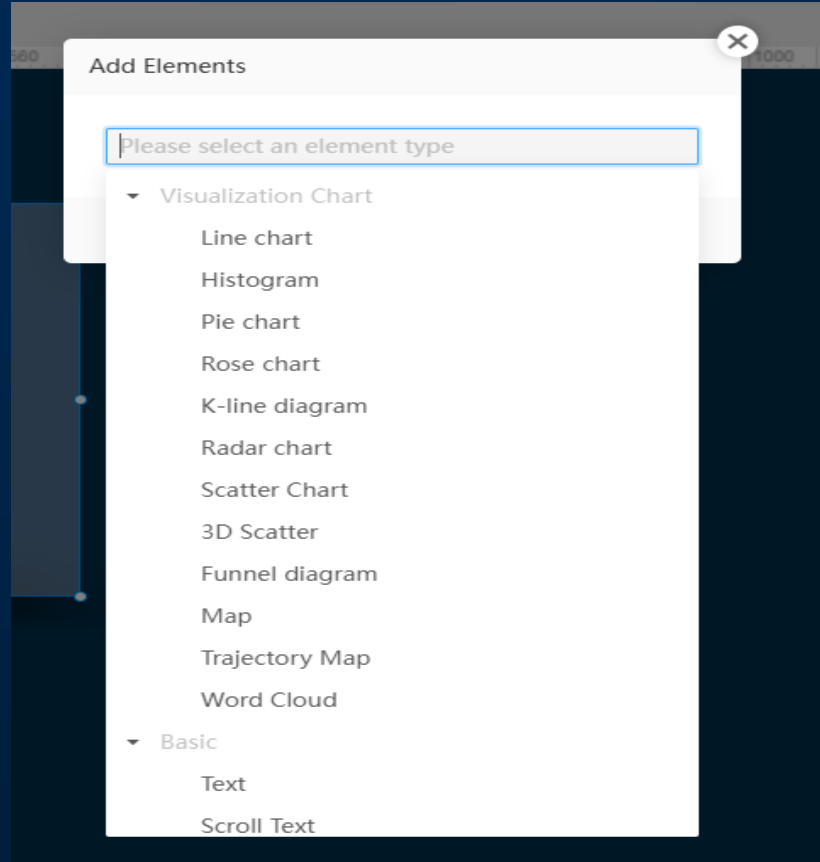
① Em **Advanced Components**,
selecione o
componente
Carousel

② Adicione o bloco de
conteúdo



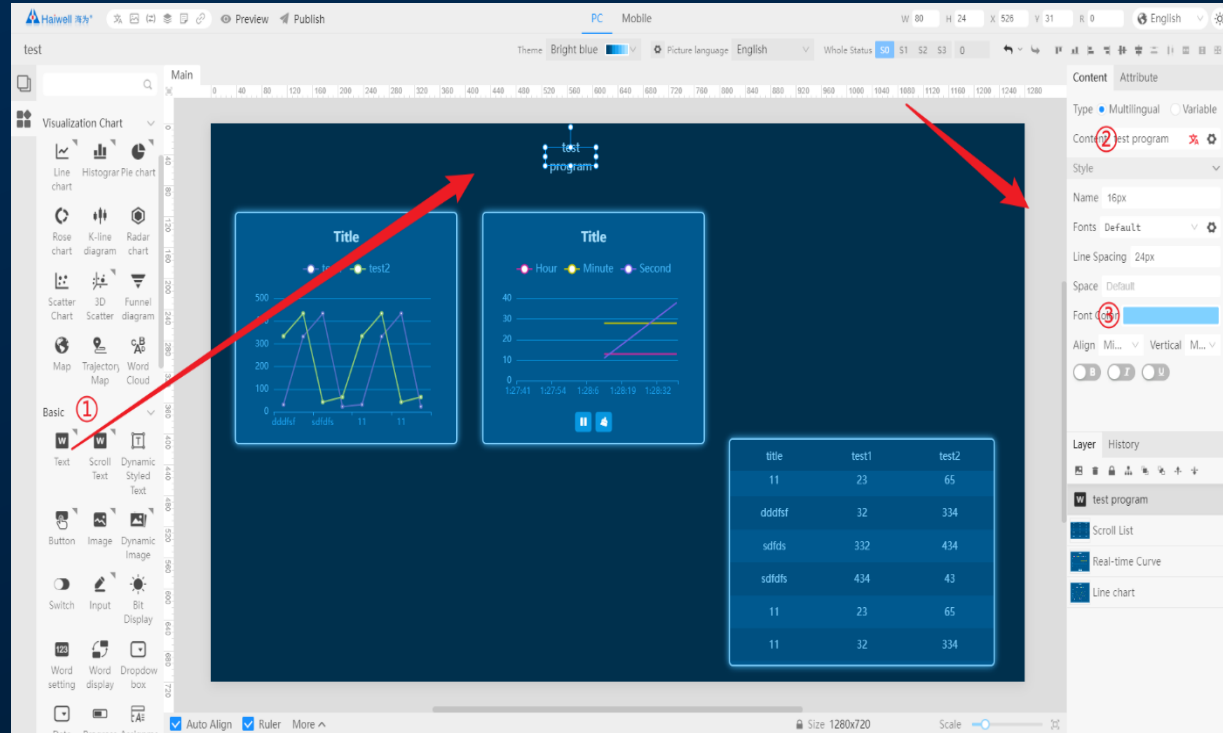
09 Carrousel

- ① Selecione curvas, gráficos e outros blocos de conteúdos
- ② Clique [OK]



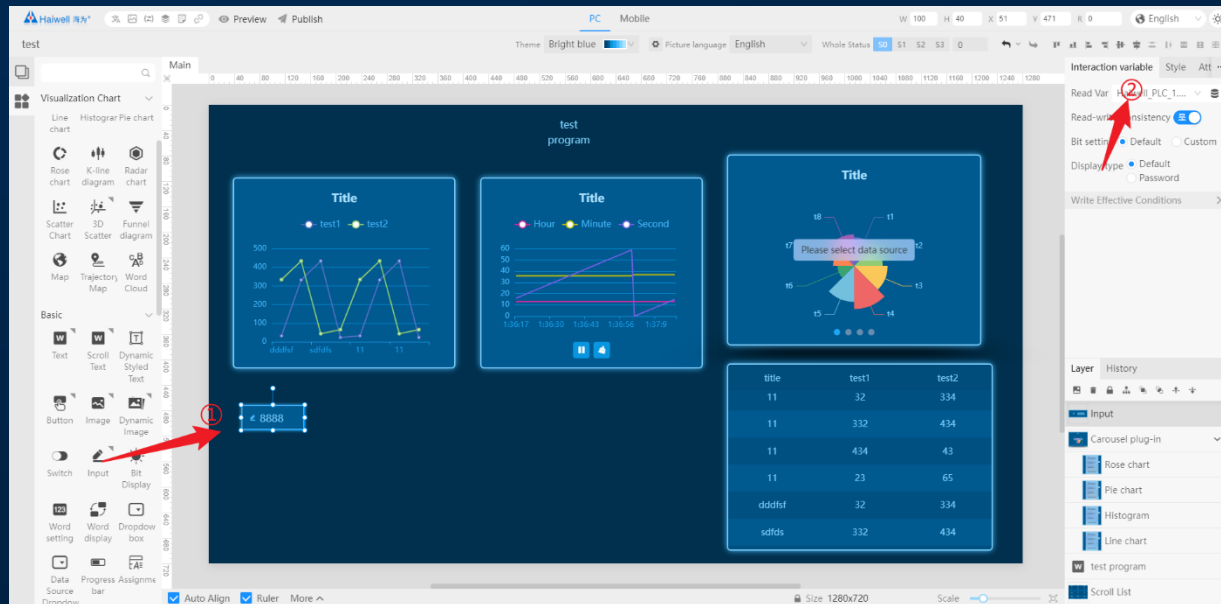
10 Texto

- ① Em **Basic component**, seleccione **Text component**
- ② Seleccione **text content**
- ③ Seleccione **text size**
- ④ **Device text color**



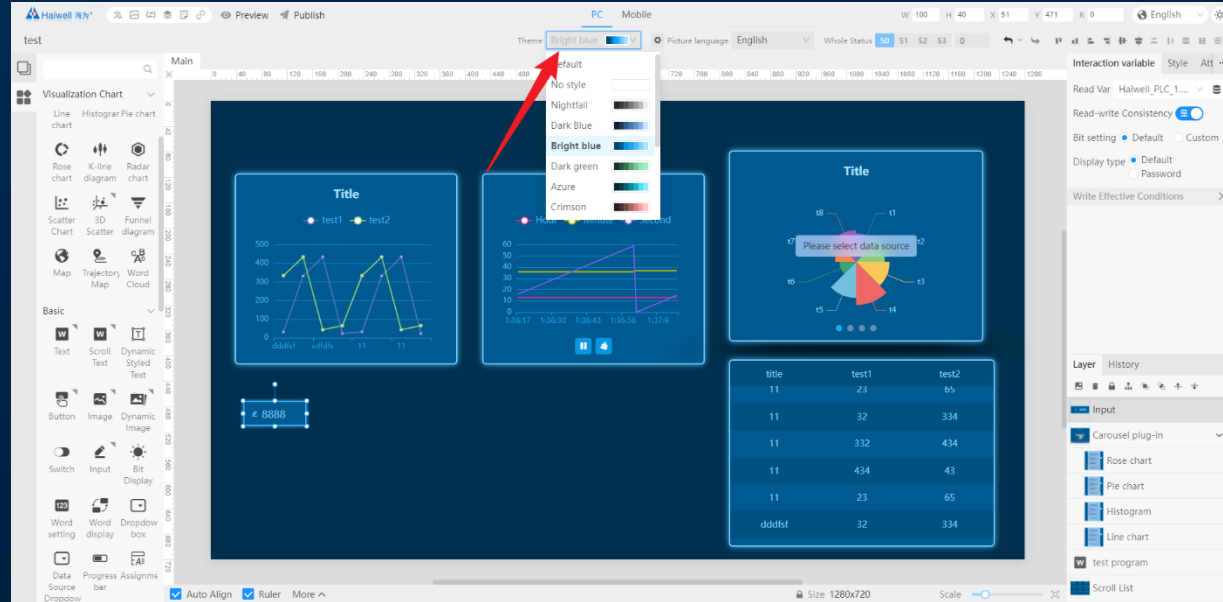
11 Input

- ① Em **Basic component**,
selecione o
componente de
entrada
- ② Selecione a variável



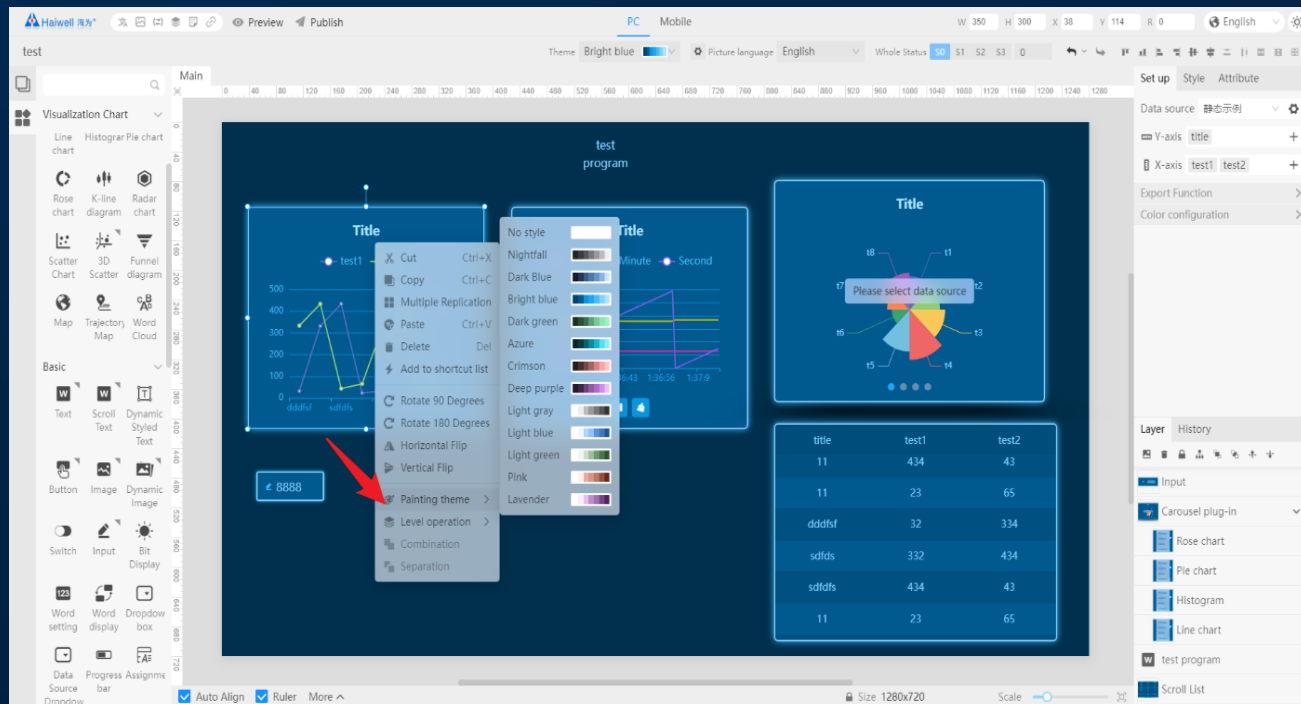
12 Cor do tema

Clique em [Theme] e
selecione a cor de
fundo do projeto



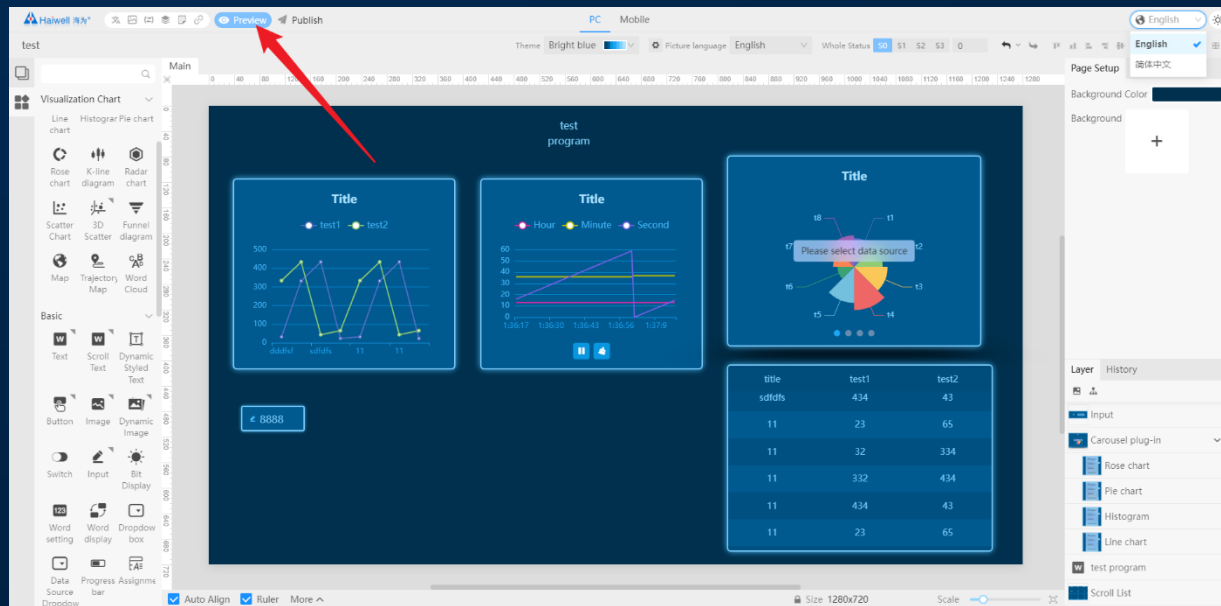
13 Seleção de cor de objeto

- ① Selecione o componente
- ② Clique com o botão direito do mouse
- ③ Clique em "Paint Theme"
- ④ Selecione a nova cor do objeto



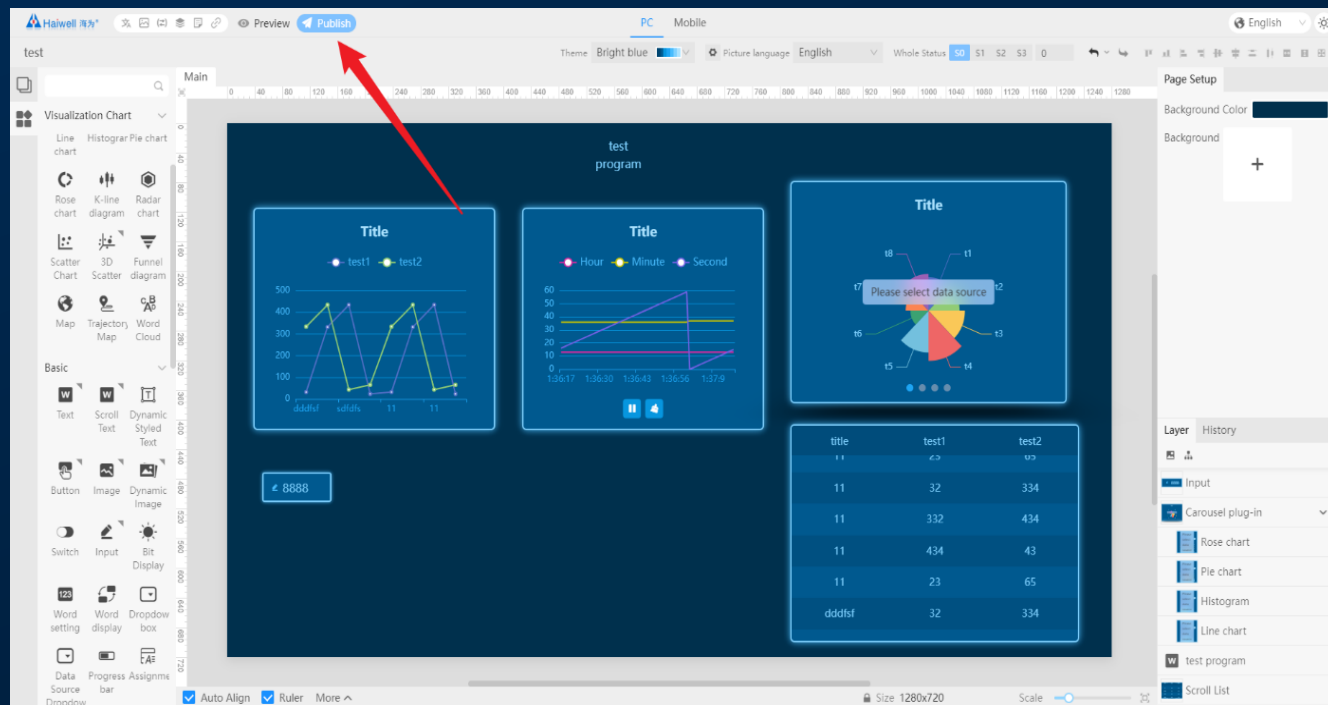
14 Visualização prévia

Clique [Preview] para
visualizar previamente
o projeto em tempo
real



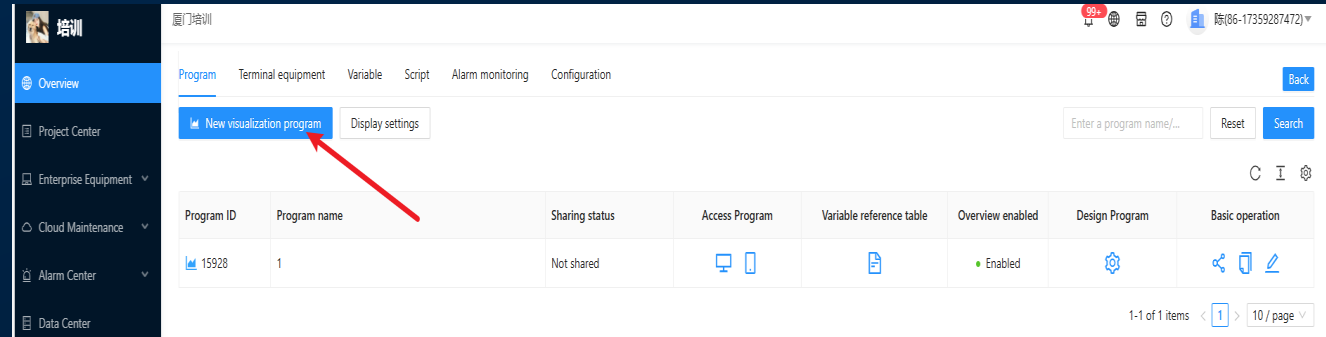
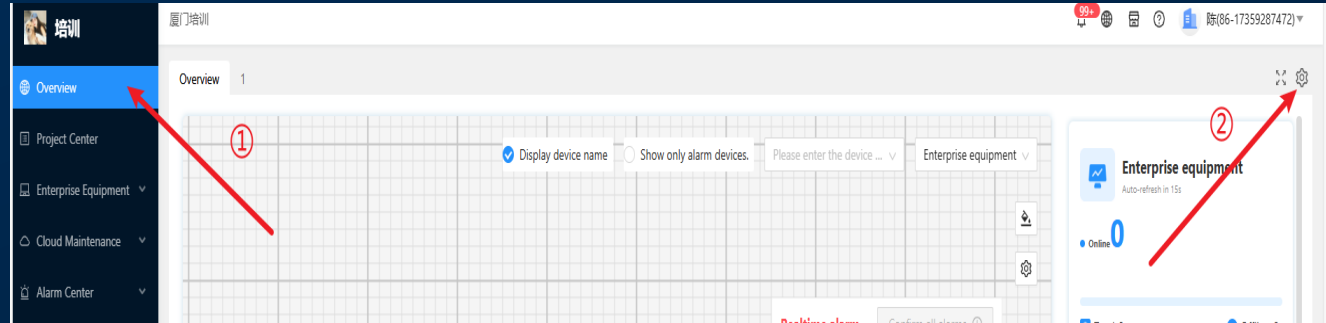
15 Publicar

- ① Clique [Publish]
para salvar e
publicar o projeto



Observação

Se você deseja
apresentar o projeto na
primeira tela, construa
o programa no
Overview



05 Acesso

Industrial Internet of Things

01 Acesso a Plataforma Enterprise

Para acessar o projeto, clique no ícone correspondente na lista de projetos

The screenshot displays the Haiwell Enterprise Platform interface. On the left is a dark sidebar with the 'Haiwell' logo and a menu including 'Overview', 'Project center' (highlighted), 'Enterprise equipment', 'Cloud maintenance', 'Distribution Center', 'Alarm center', 'Data center', 'Asset center', 'Monitoring Center', 'Customization center', 'Customer center', 'My business', and 'Developer center'. The main area has a top navigation bar with tabs: 'Program', 'Terminal equipment', 'Variable', 'Data monitoring', 'Script', 'Alarm monitoring', and 'Configuration'. Below this is a search bar for 'Enter project name' with a search icon. A list of projects is shown, with 'test' selected. Below the list are buttons for 'New web configuration program' and 'New visualization program'. A table lists project details:

Program ID	Program name	Management team	Sharing status	Access Program	Variable reference table	Design Program	Basic operation
16168	test	默认团队	Not shared				

A red arrow points to the 'Access Program' icon in the table row for project 'test'. The bottom right of the table shows '1-1 of 1 items' and '10 / page'.

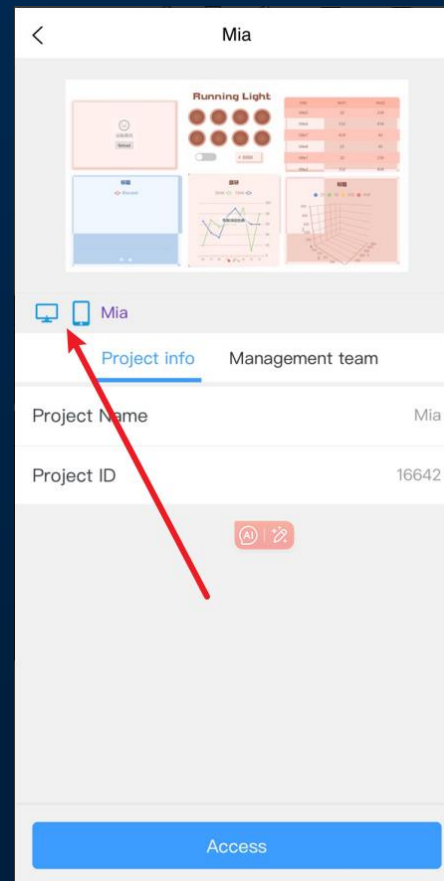
02 Acesso pela TVBOX

Acesso via TVBOX



03 Accesso via APP

Acesso via Haiwell Cloud APP



04 Link de acesso para compartilhamento

Clique na tabela para
criar o compartilhamento

The screenshot displays the Haiwell software interface. On the left is a dark sidebar with a menu including 'Overview', 'Project Center', 'Enterprise Equipment', 'Cloud Maintenance', 'Alarm Center', 'Data Center', 'Asset Center', 'Monitoring Center', 'Customization Center', 'Customer Center', and 'My Enterprise'. The 'Project Center' is selected. The main area is titled '厦门培训' (Xiamen Training) and contains a search bar and tabs for 'Program', 'Terminal equipment', 'Variable', 'Data monitoring', 'Script', 'Alarm monitoring', and 'Configuration'. The 'Program' tab is active, showing buttons for 'New web configuration program' and 'New visualization program'. Below these is a table with the following columns: Program ID, Program name, Management team, Sharing status, Access Program, Variable reference ta..., Design Program, and Basic operation. The first row of data shows Program ID 16501, Program name Mia, Management team 默认团队, and Sharing status Not shared. A red arrow points from the bottom right towards the share icon in the 'Basic operation' column of the first row. At the bottom right of the table, there is a pagination indicator '1-1 of 1 items' and '10 / page'.

Program ID	Program name	Management team	Sharing status	Access Program	Variable reference ta...	Design Program	Basic operation
16501	Mia	默认团队	Not shared				

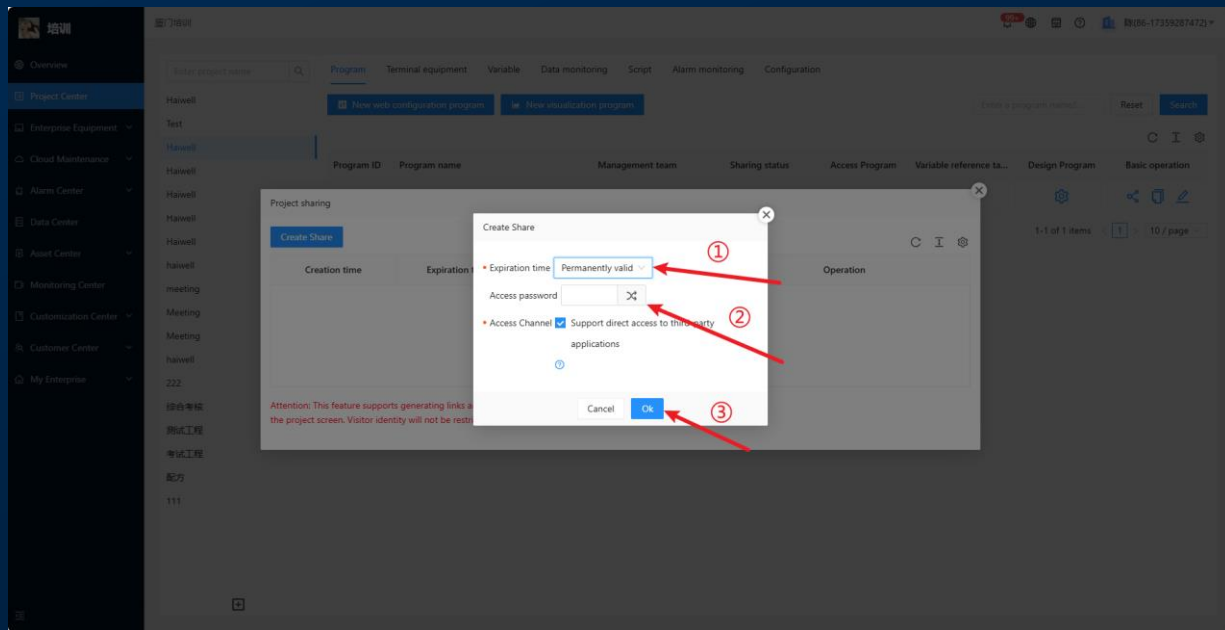
04 Link de acesso para compartilhamento

Clique para criar o compartilhamento

The screenshot displays the Haiwell software interface. On the left is a dark sidebar with a menu including 'Overview', 'Project Center', 'Enterprise Equipment', 'Cloud Maintenance', 'Alarm Center', 'Data Center', 'Asset Center', 'Monitoring Center', 'Customization Center', 'Customer Center', and 'My Enterprise'. The main area is titled '厦门培训' (Xiamen Training) and contains a search bar and tabs for 'Program', 'Terminal equipment', 'Variable', 'Data monitoring', 'Script', 'Alarm monitoring', and 'Configuration'. The 'Program' tab is active, showing a list of programs with columns for Program ID, Program name, Management team, Sharing status, Access Program, Variable reference ta..., Design Program, and Basic operation. A 'Project sharing' dialog box is open in the center, featuring a 'Create Share' button highlighted with a red arrow. The dialog box also contains a table with columns for Creation time, Expiration time, Access password, Sharing status, and Operation, and a 'No Data' message. At the bottom of the dialog, a red warning message states: 'Attention: This feature supports generating links and QR codes, which can be shared with others to access the project screen. Visitor identity will not be restricted, please operate with caution!'.

04 Link de acesso para compartilhamento

- ① Selecione o prazo limite de acesso
- ② Selecione a senha
- ③ Clique **OK**



04 Link de acesso para compartilhamento

Copie o link para
compartilhar

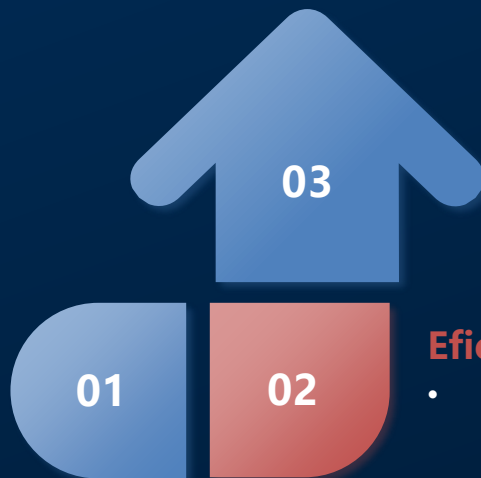
The screenshot displays the Haiwell software interface. On the left is a sidebar with navigation options: Overview, Project Center, Enterprise Equipment, Cloud Maintenance, Alarm Center, Data Center, Asset Center, Monitoring Center, Customization Center, Customer Center, and My Enterprise. The main area shows a 'Program' configuration screen with tabs for Program, Terminal equipment, Variable, Data monitoring, Script, Alarm monitoring, and Configuration. A 'Project sharing' dialog box is open in the foreground, featuring a 'Create Share' button and a table with the following data:

Creation time	Expiration time	Access password	Sharing status	Operation
2024-09-25 14:20:59	2024-09-26 14:20:50	000000	☒	Copy Link View Link Modify Delete

Below the table, a red text warning states: 'Attention: This feature supports generating links and QR codes, which can be shared with others to access the project screen. Visitor identity will not be restricted, please operate with caution!'. A red arrow points to the 'Copy Link' button. The dialog box also includes a '1 of 1 items' pagination indicator.

Resumo

Custo
Gratuito e fácil de utilizar
Baixo custo de engenharia



Valor

- TVBOX simplifica e reduz equipamentos necessários
- De pequenos a grandes sistemas

Eficiência

- Projetos funcionam em dispositivos móveis, PC e TVBOX.
- Imagens e informações podem ser compartilhadas via nuvem

Por fim

- A solução Web SCADA supera as limitações de equipamentos e os desafios impostos pela distância, oferecendo maior flexibilidade e eficiência na monitorização e controle remoto de processos.
- Esperamos que nossos produtos e plataformas possam ajudá-lo a se destacar em seu setor e a construir um futuro melhor.

Obrigado por assistir

———— Industrial Internet of Things ————