IP65 Data Transmission Terminal User Manual

⚠ Safety precautions

Before using the product, read the manual carefully to ensure safe operation.

- The account and password are the authentication credential of INVT IoT monitoring system, with which you can remotely manage and maintain photovoltaic (PV) water pump devices after login. Keep the account and password safe and take adequate measures to prevent them from being stolen. If the account and password are stolen, it may cause significant losses.
- The product is an industrial IoT product. Although we have taken necessary technical means to ensure the data security, there may still be hacking and other network security risks that are beyond our control or responsibility. We are not liable for any harm that is not caused by quality defects of the product itself.
- Without our written permission, no entity or individual can extract, duplicate, or disseminate any of this document in any forms.

🖉 **Note:** Insert or remove the data transmission terminal only when the power is off.

1 Downloading the monitoring app

Scan the QR code to download the app, or search for "INVT Cloud" in the app store. You can also access the web version at iot.invt.com for data monitoring.

🖉 **Note:** The QR code works for both Android and iOS devices.

2 Installing the data transmission terminal

The data transmission terminal is secured to a PV water pump using an aviation connector. The installation procedure is as follows:

Step 1 Insert the data transmission terminal into the connector along the guide slot.

Step 2 Tighten the fastening cap clockwise.

🖉 **Note:** For 4G models (ICA400-06/ICA400-26), insert the SIM card before installation.
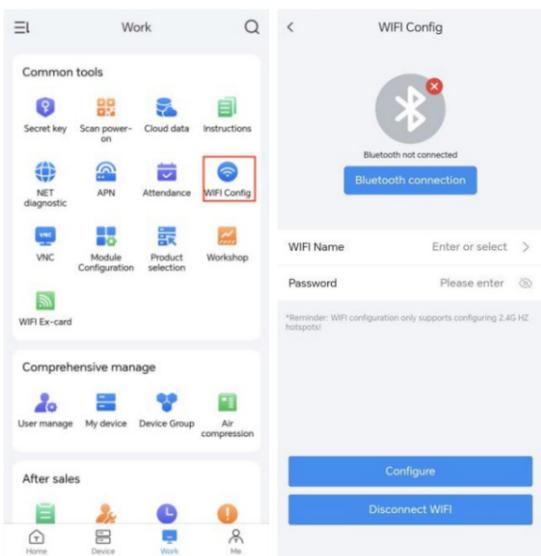
3 Configuring the network for the data transmission terminal

3.1 WIFI network configuration for the WIFI model (ICA100-06)

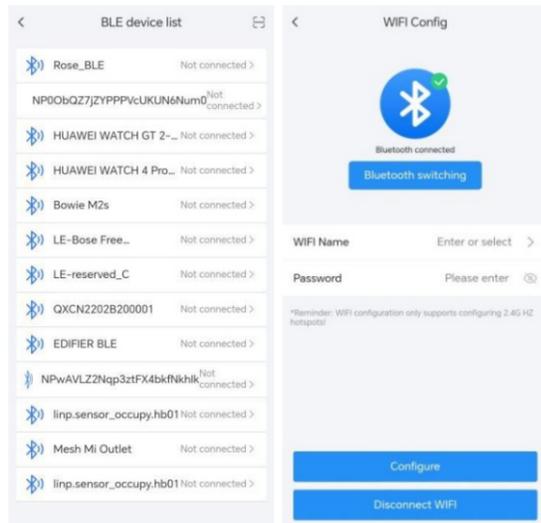Step 1 Open the INVT Cloud Monitoring app, tap **Work**, and select **WIFI Config**.

Step 2 Tap **Bluetooth connection**, then select the corresponding terminal ID from the pop-up Bluetooth device list, or scan the barcode on the data terminal to connect to the data transmission terminal via Bluetooth.

Step 3 Once the Bluetooth connection is successful, enter the WIFI name and password, and tap **Configure**. The terminal will automatically connect to the WIFI network.

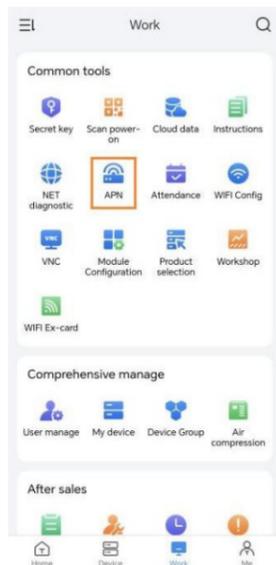Step 1 illustration   Step 2 illustration
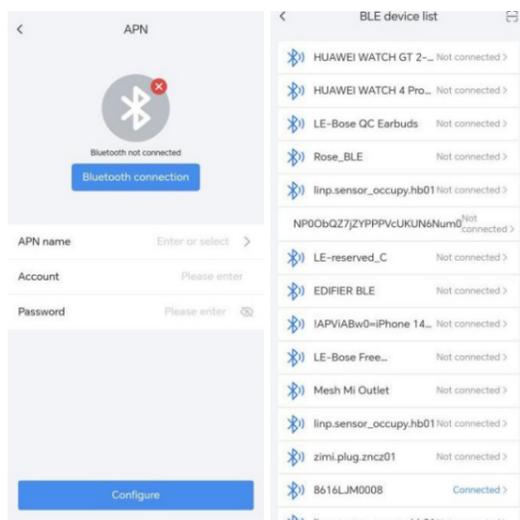

Step 2 illustration   Step 3 illustration

3.2 APN configuration for a 4G model (ICA400-06/ICA400-26)

🖉 **Note:** APN configuration is not required unless specified by the SIM card carrier to connect to the 4G network.
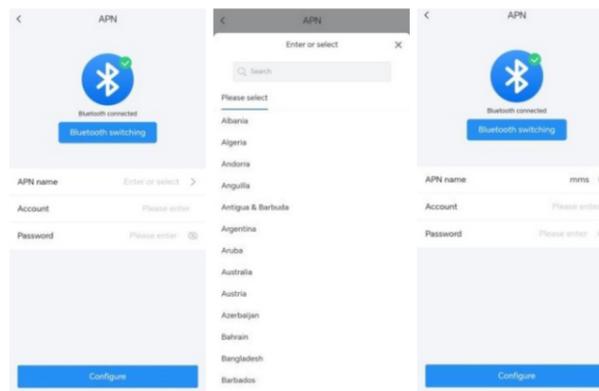
Step 1 Open the INVT Cloud Monitoring app, tap **Work**, and select **APN Config**.

Step 2 Tap **Bluetooth connection**, then select the corresponding terminal ID from the pop-up Bluetooth device list, or scan the barcode on the data terminal to connect to the data transmission terminal via Bluetooth.
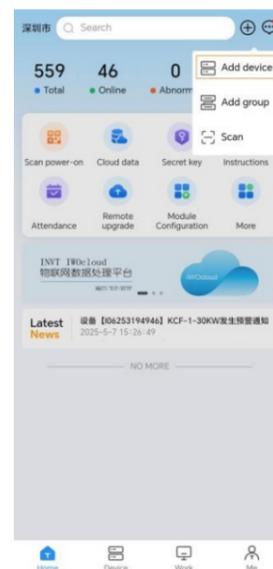

Step 3 After the Bluetooth connection is successful, enter or select the APN name, user name, and password, then tap **Configure**. After receiving a success message, restart the data terminal for the settings to take effect immediately.
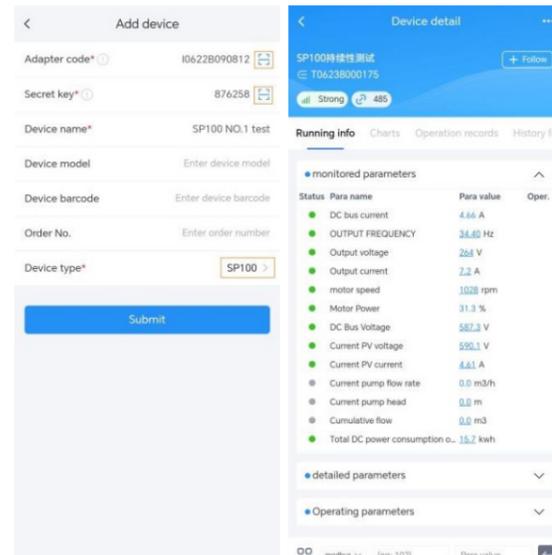

4 Data monitoring

4.1 Quick startup

Step 1 Open the INVT Cloud Monitoring app, tap **+**, and select **Add device**.

Step 2 On the **Add device** page, enter the data terminal product code and key, or scan the data terminal barcode and QR code. Then, enter the device name, select device type **SP100**, and tap **Submit**.

Step 3 Once successfully added, tap **Device** to view the list of added devices. Select the corresponding data terminal device to view monitoring data.
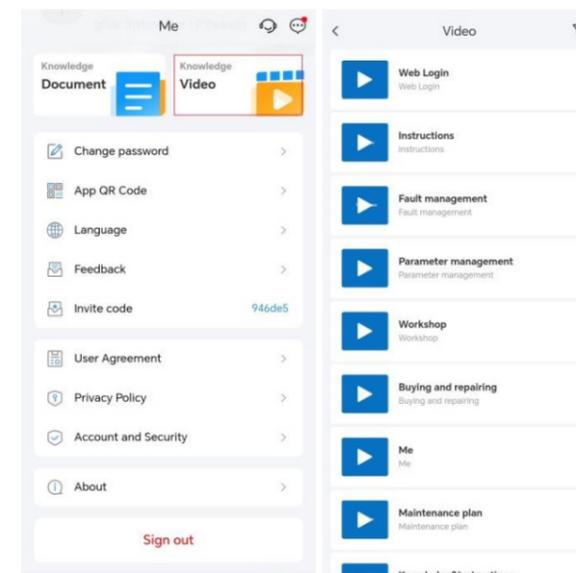

Step 2 illustration   Step 3 illustration

4.2 Detailed features

You can learn about the detailed features of the INVT Cloud app by watching the tutorial videos.

Step 1 Open the INVT Cloud Monitoring app, tap **Me**, and tap **Video**.

Step 2 Filter the app tutorial videos.

Step 1 illustration   Step 2 illustration

5 More information

If you have any technical questions about our products, please contact us and provide the following information:

- Model and serial number of the data transmission terminal
- Model and serial number of the connected PV water pump

Thanks for your support.

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