KILEWS

MTCS Control Hub

System Operation Manual Description



Y2F210-75-004
2026/08/13

KILEWS

Contents

① System Requirements 3

② Wi-Fi Module Connection 4

③ Introduction to the system interface 14

1. Home 15

2. Setup 17

(1) Job 17

(2) Connections 24

(3) Tool 25

(4) I/O Output (Reserved, not available) 27

(5) System 27

3. JOB & SEQ 30

4. Date 31

(1) History 31

(2) Export date 31

(3) Export / Import configuration 32

(4) Data Filed 32

5. Graph 33

6. Barcode 34

7. Device info 35

④ Declaration 36

KILEWS

① System Requirements

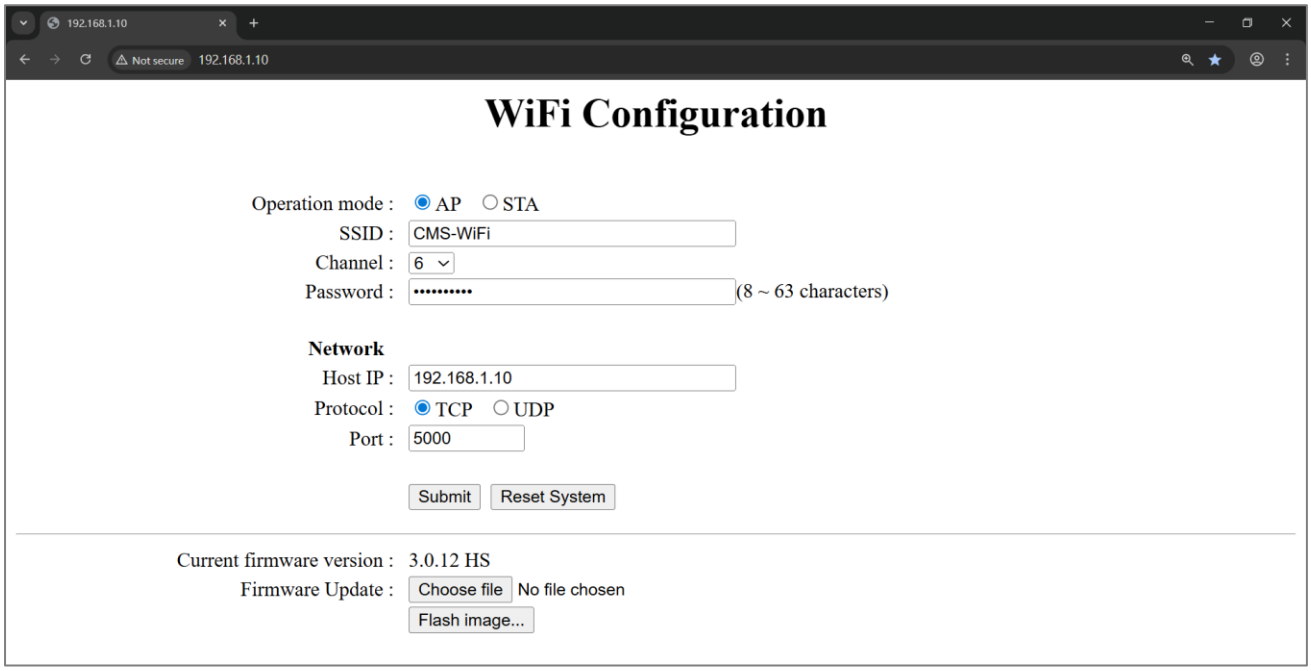
- Windows 10、Windows 11
- Recommended system specifications: RAM 8 GB or higher, Intel Core i5 processor or higher, and a screen resolution of 1024 × 768 or above.

KILEWS

② Wi-Fi Module Connection

1. Operation mode: AP

AP (Access Point) mode. The device operates as a Wi-Fi access point (hotspot), broadcasting a Wi-Fi signal (SSID) to allow connection. In simple terms, AP Mode means that the device provides its own Wi-Fi network, allowing other devices to connect to it.



- SSID(Wi-Fi Name): Default is CMS-WiFi (1–32 characters). It is not recommended to modify the SSID. If necessary, append numbers after “WiFi” only.
- Channel(Wireless Channel): Sets the wireless channel. Default: 6.

  FCC available channels: 1 to 11. Modification is not recommended.
- Password (AP Mode): Default is 1234567890 (8–63 characters). If the password is forgotten, a Wi-Fi reset is required.
- Host IP: Sets a static IP address. Default: 192.168.1.10.

  Modification is not recommended.
- Protocol: Sets the communication protocol (TCP or UDP). Default: TCP. Modification is not recommended.

- Port: Sets the server port number. Default: 5000. Modification is not recommended.

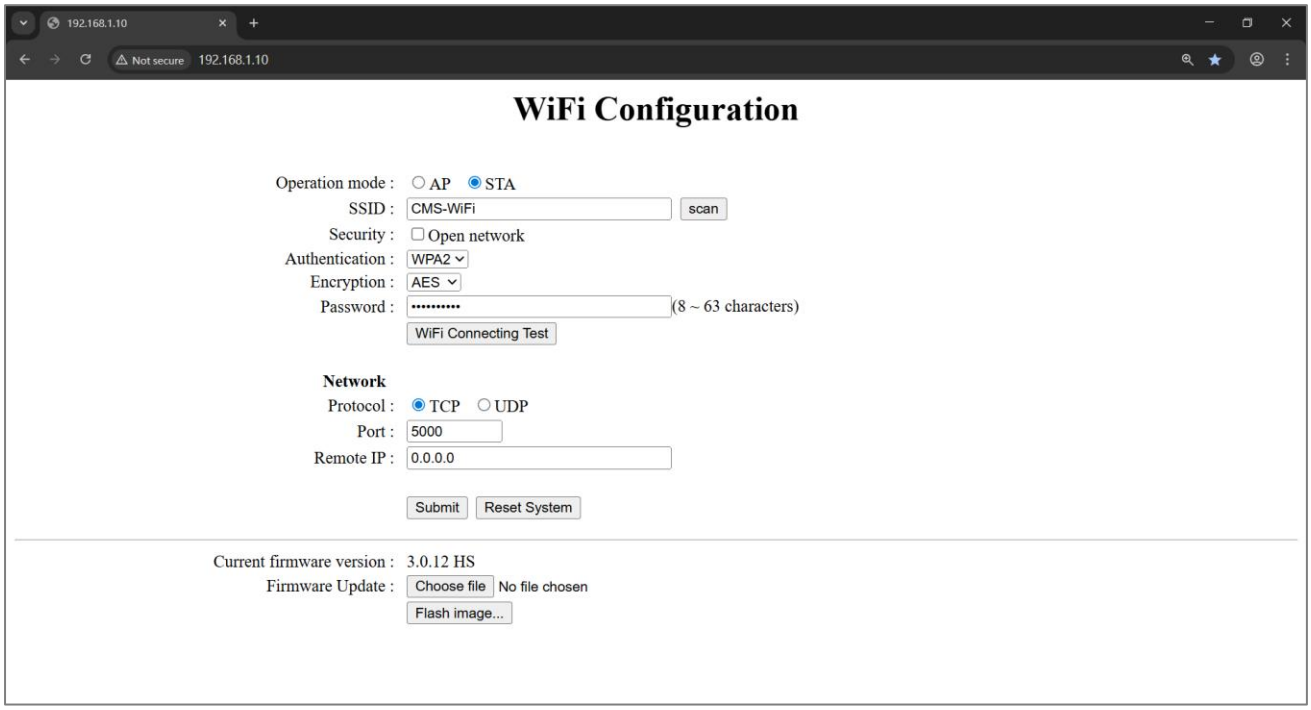
【Note】

- When making changes, you must click “Submit” and then click “Reset System”.
- To update the module firmware (F/W) version, use the web interface.
- In AP mode, the app and screwdriver cannot communicate.

2. Operation mode: STA

STA Mode(Station mode)

The device operates in “Client” mode, connecting to an existing Wi-Fi router or access point (AP). In simple terms, Station Mode allows the device to connect to another Wi-Fi network.



- SSID(Wi-Fi Network Name): Sets the Wi-Fi network name. Default: CMS-WiFi.

  Length: 1–32 characters. You can either enter the SSID manually or select a router SSID by clicking “Scan”.

- Security: Sets the network security.

  If “Open Network” is selected, no security is applied; do not select Open Network.

  If Open Network is not selected, authentication, encryption, and password must be configured.

- Authentication: Select WPA/WPA2. Please choose WPA2 (do not modify).

- Encryption: Select TKIP or AES. Please choose AES (do not modify).

- Password: Set the password with 8 to 63 characters according to the router’s password.

KILEWS

- WiFi Connecting Test: Test whether the module is successfully connected to the router (grayed out after setup).
- Protocol: Set as TCP or UDP client. Please choose TCP (do not modify).
- Port: Set the remote server port number. Default: 5000 (modification not recommended).
- Remote IP: Set the remote server IP. Enter the controller or computer IP (Server IP).

  Note: If set to 0.0.0.0, the system will operate in server mode instead of client mode.

Note :

- When making changes, you must click “Submit” and then click “Reset System”.
- The module firmware (F/W) can be updated via the web when an update is required.
- If the module’s port number is changed, the port number must also be updated in the APP system settings; otherwise, it will not be able to connect to the server.
- If the SSID or Password is configured incorrectly, the device will fail to connect.

  Navigate to the tool interface on the screwdriver.

  Press and hold the [Space] key for 10 seconds. You will hear a “beep” sound, and a hidden page will appear.

  Press “Select“ to highlight the reset option. When selected, the background will turn blue.

  Press “Confirm“ to execute the reset. The background will turn red, indicating that the wireless network has been restored to factory default settings.
- Check the computer’s IP address (example shown using a wired network).

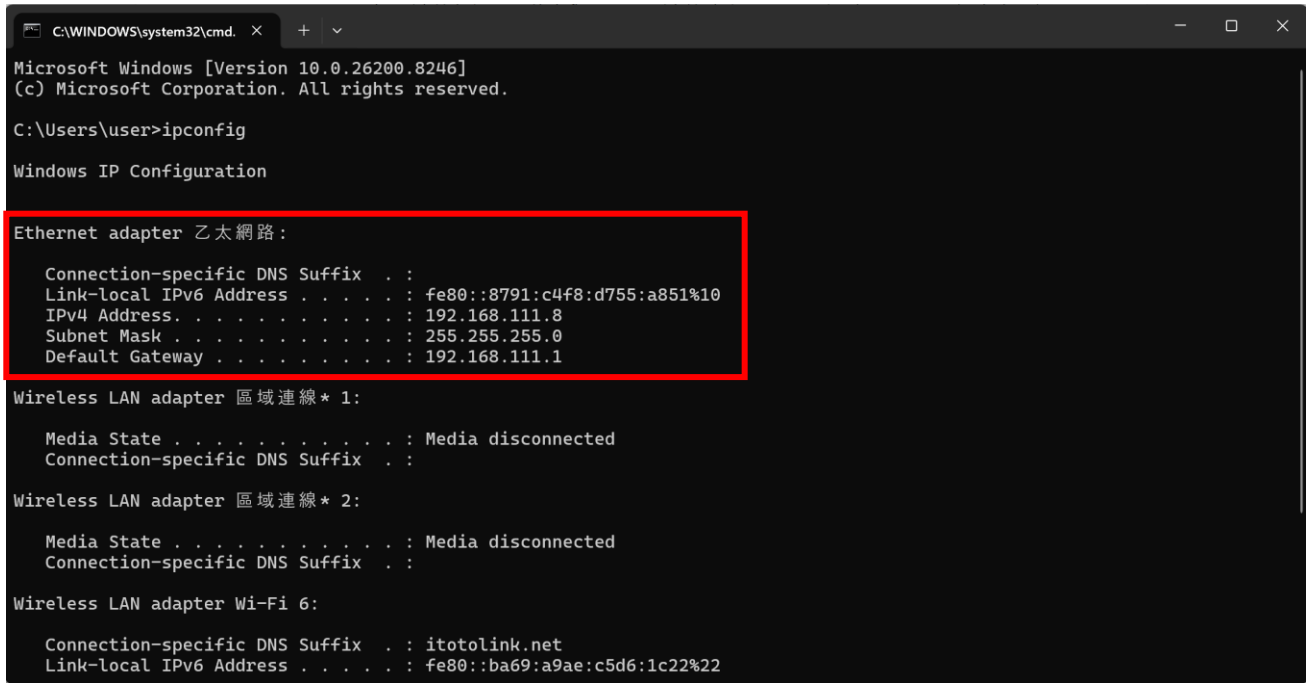
①Press “Windows Key  + R” on the keyboard to open the Run window (shortcut may vary depending on your computer environment).

②Type “CMD” (Command Prompt) and press Enter to open it.

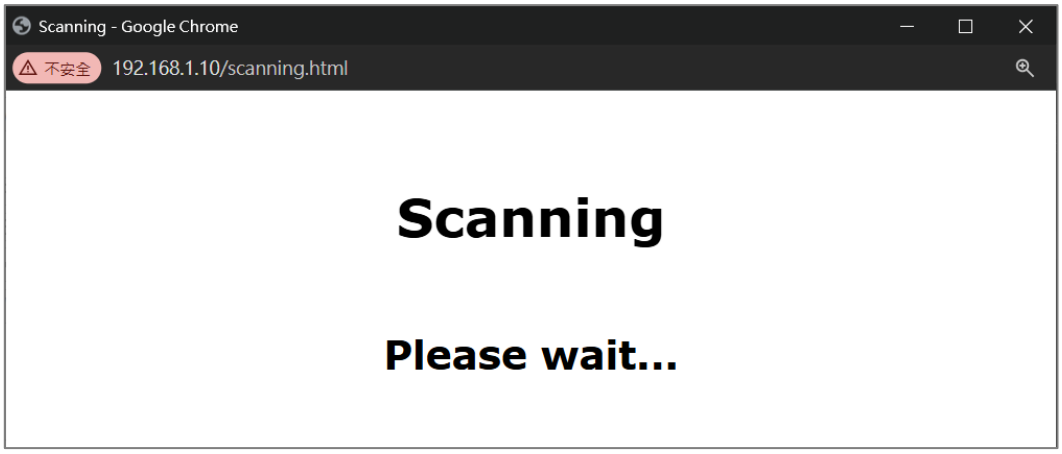
③ Type “ipconfig” and press Enter to view the network configuration information.

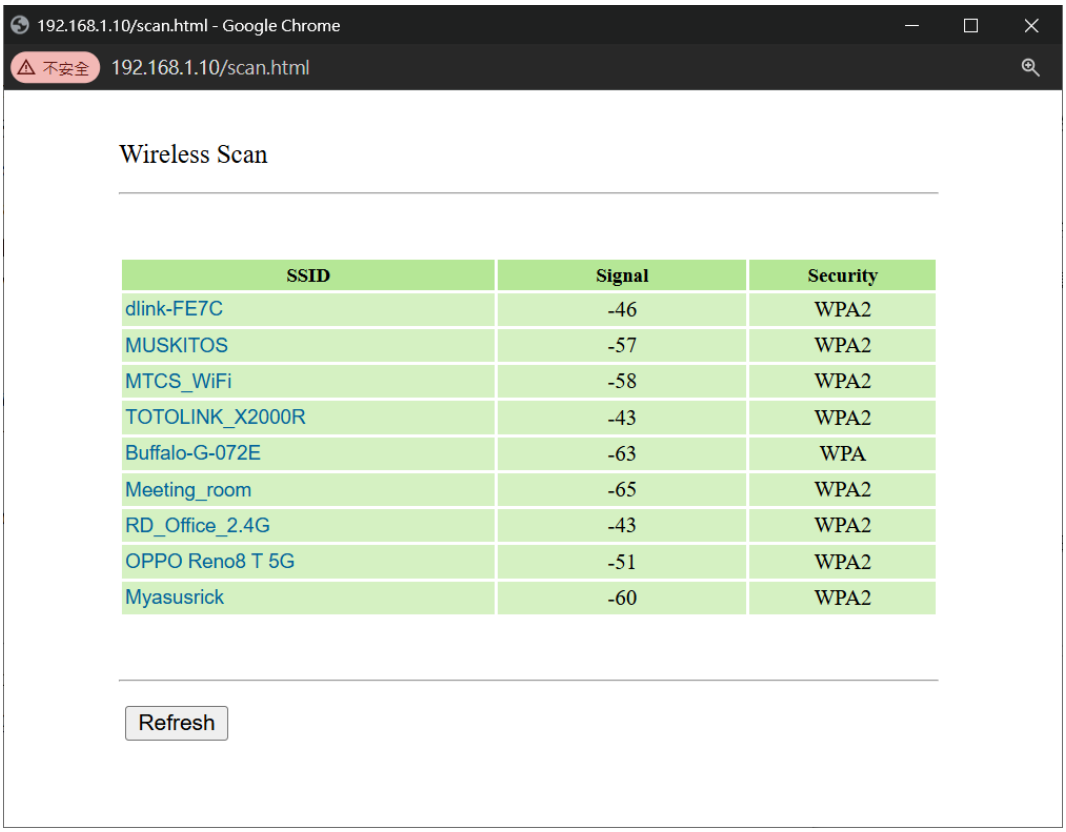
For a wired network → check the Ethernet connection (example below shows an IPv6 address of 192.168.111.8).

For Wi-Fi → check the Wireless LAN (Wi-Fi) adapter.



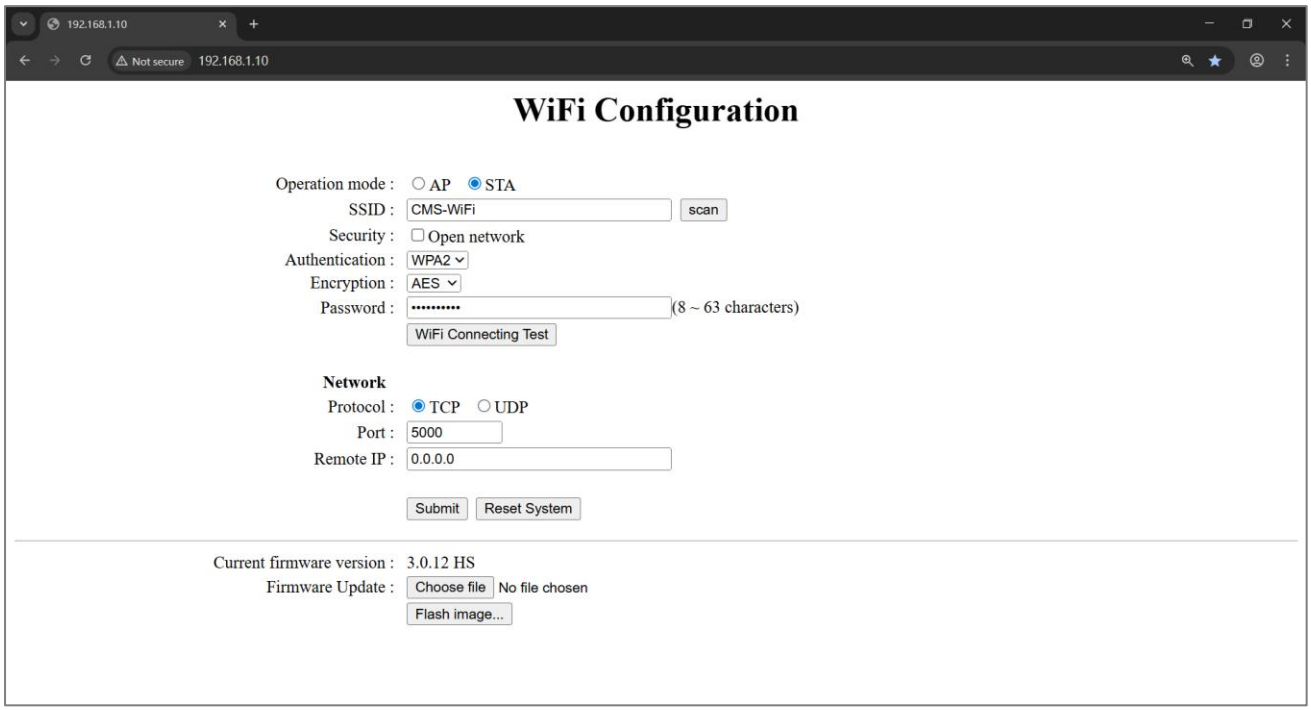
3. In STA mode, press Scan on the SSID field → select the Wi-Fi network you want to connect to.

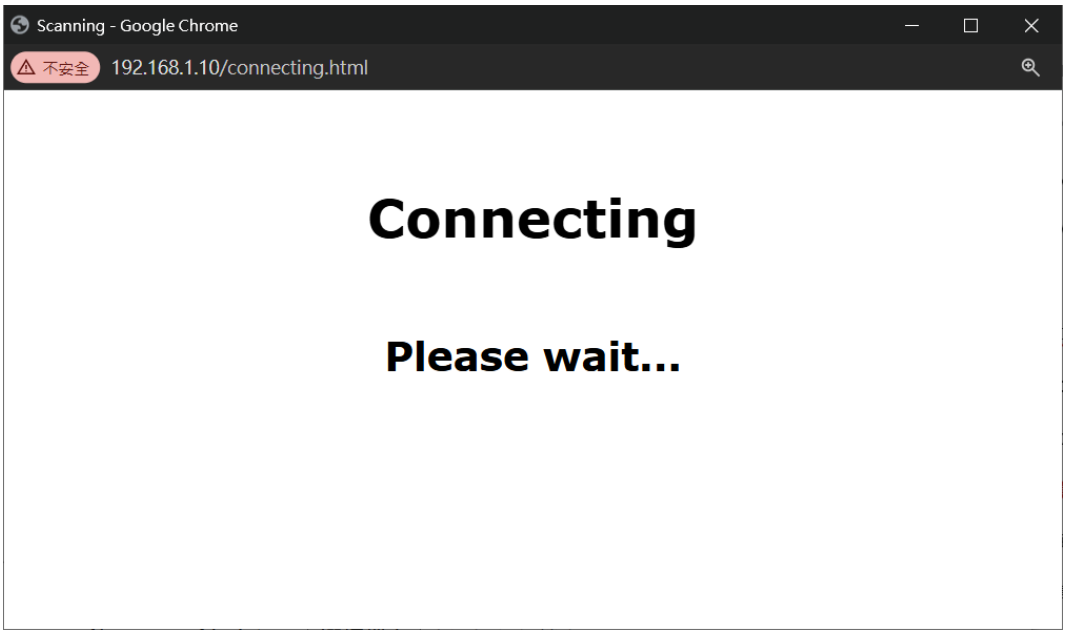




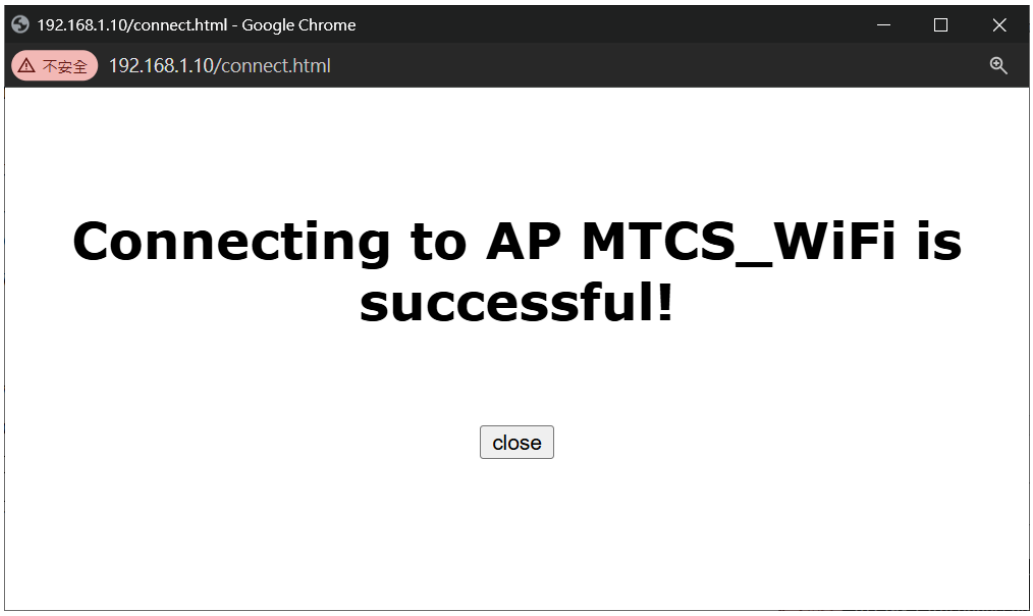
4. After select the SSID, return to the settings interface.

Enter the "Password" and press "WiFi Connecting Test”.

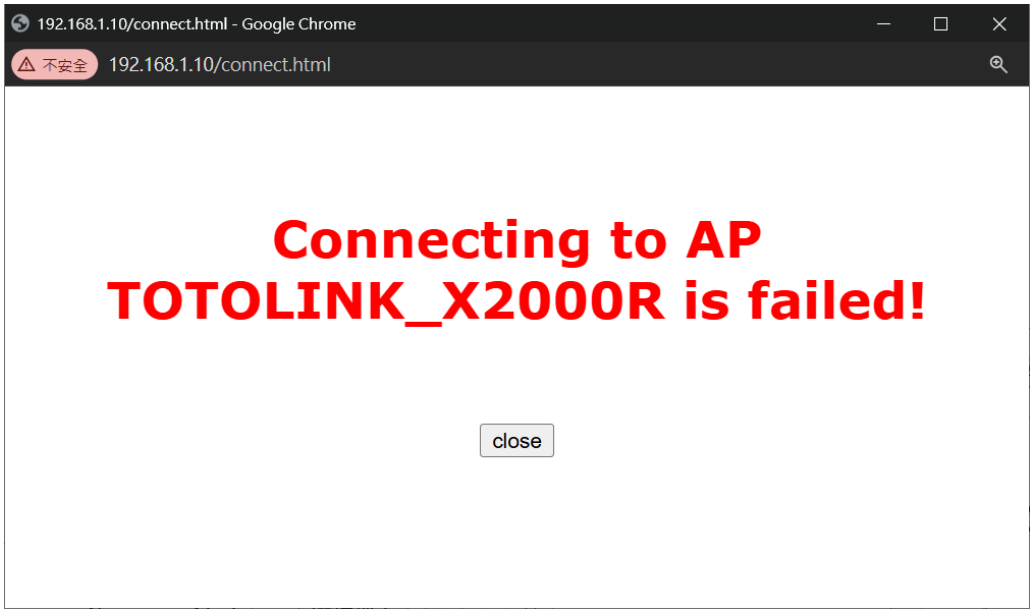




Success screen

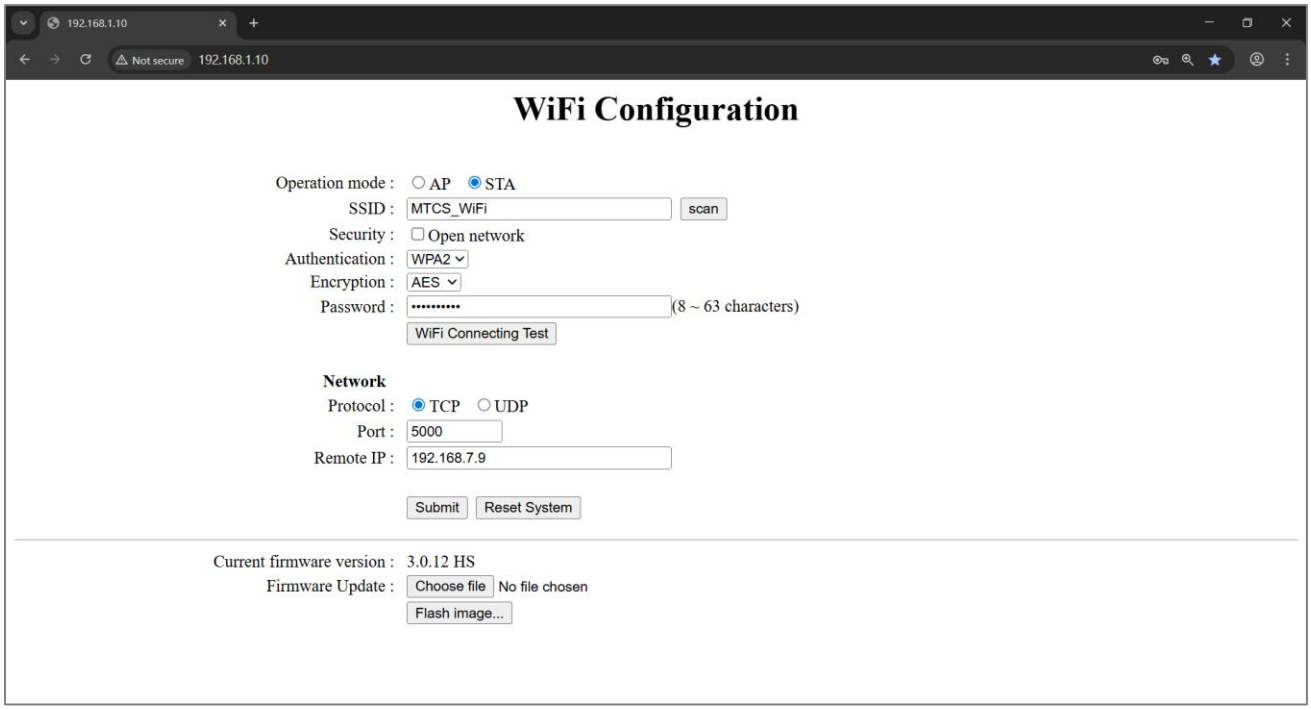


Connection failed screen



KILEWS

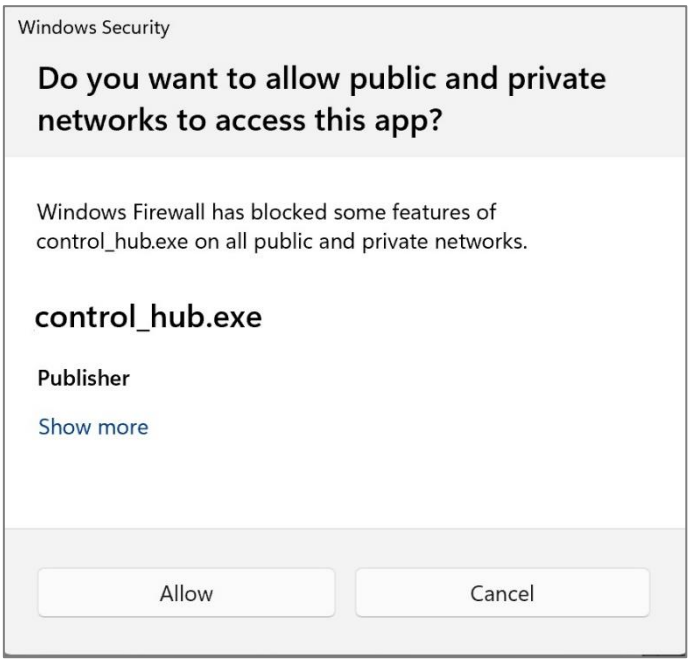
5. Enter Remote IP then press “Submit” and “Reset System”.



6. The network information interface on the screwdriver’s LCD displays it’s IP address. Entering the screwdriver’s IP allows login to the web interface.

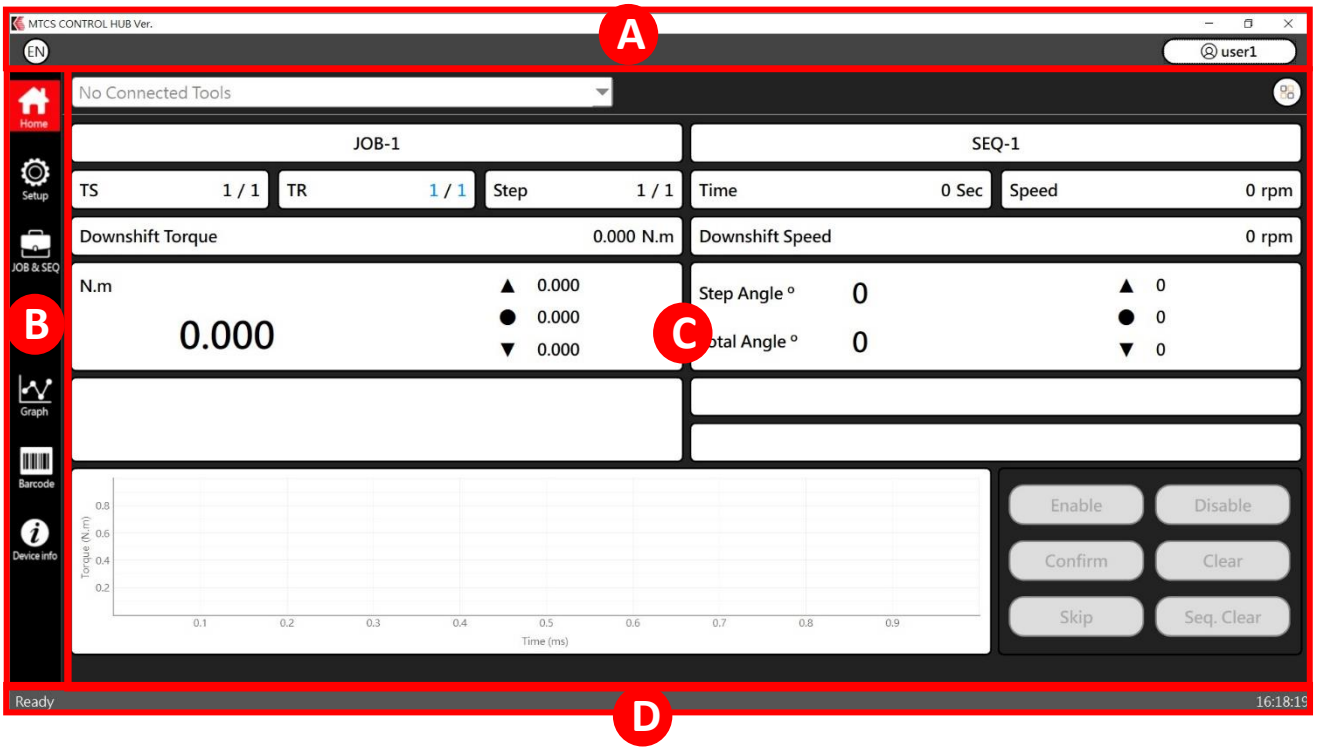
7. When launching the system for the first time, a Windows Security Alert dialog box will appear. Check both Private networks and Public networks, then click Allow access.

Note: This dialog window will not appear if the computer firewall is disabled.



KILEWS

③ Introduction to the system interface



Ⓐ

Displays the manufacturer's logo, system name, and version.

System language can be switched (automatically detects the computer's language when launched).

Login account: (Clicking again after logging in will log out the account)

Default account: user1, default password: 0000

Administrator account: admin, default password: 99999999

Ⓑ Main menu list

Ⓒ Function operation settings and display

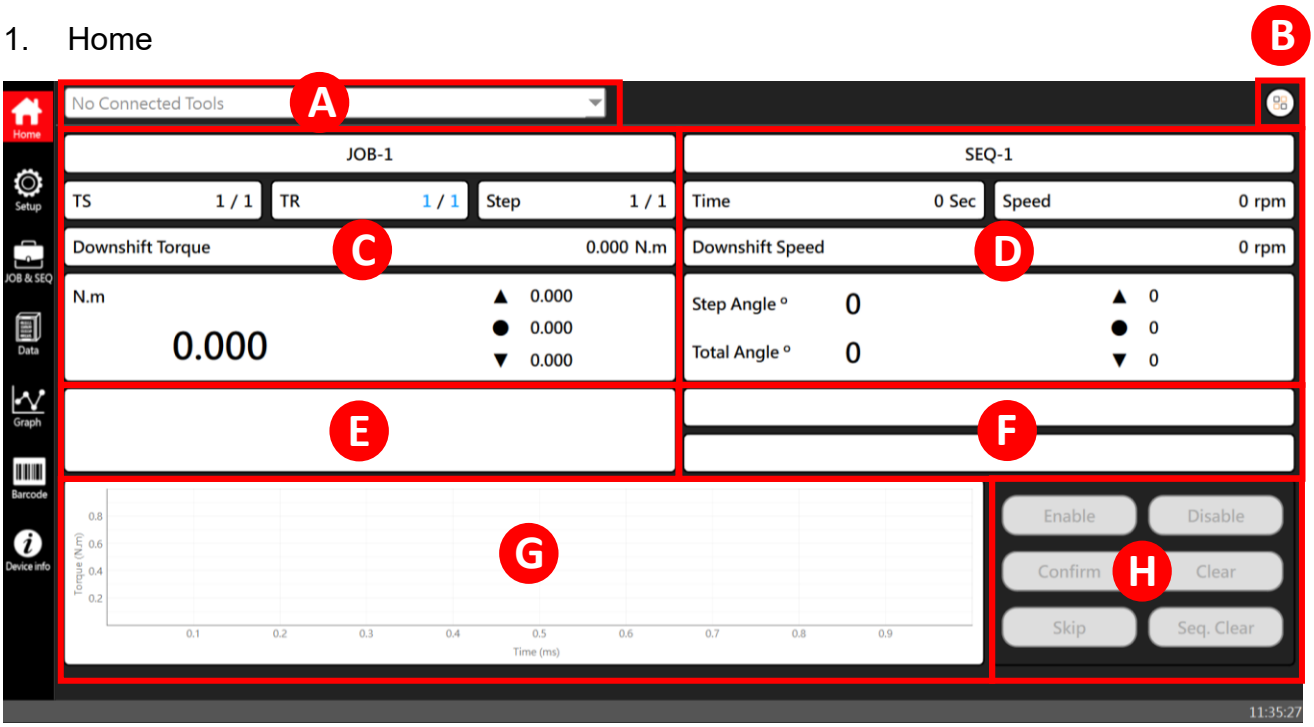
Ⓓ

Displays connection status

Displays the time

KILEWS

1. Home



Ⓐ Displays screwdrivers that are connecting; use the dropdown to select a screwdriver.

Ⓑ Allows viewing information and status of multiple screwdrivers.

Ⓒ Displays the current status of the JOB.

JOB: Display the name of the current active task.

TS: Current sequence number / Total number of sequences.

TR: Current tightening repeats / Total tightening repeats.

Step: Current step / Total number of steps.

Downshift Torque: Display torque setting at deceleration point.

Display screwdriver torque unit, current torque, high torque, target, and low torque.

Ⓓ Display current SEQ status

SEQ: Display the name of the currently executing sequence.

Time: Time in seconds from pressing the activation pressure plate until tightening is complete or the activation pressure plate is released.

Speed: Display screwdriver speed.

Downshift Speed: Display the set rotation speed at the deceleration point.

Display step angle, total angle, high angle, target angle, and low angle.

Ⓔ Real-time tightening status.

Ⓕ Display error message.

Display system message.

Ⓖ Display real-time tightening curve graph.

Ⓗ Fastening Control Function Buttons.

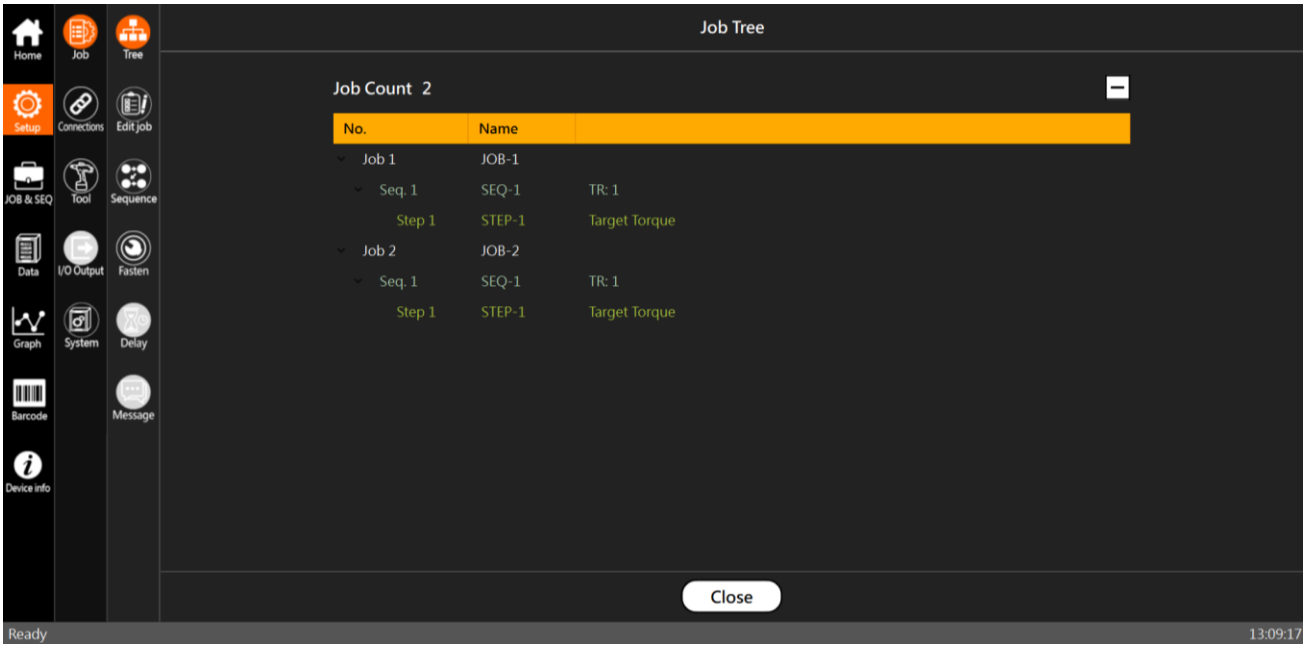
KILEWS

2. Setup

(1) Job

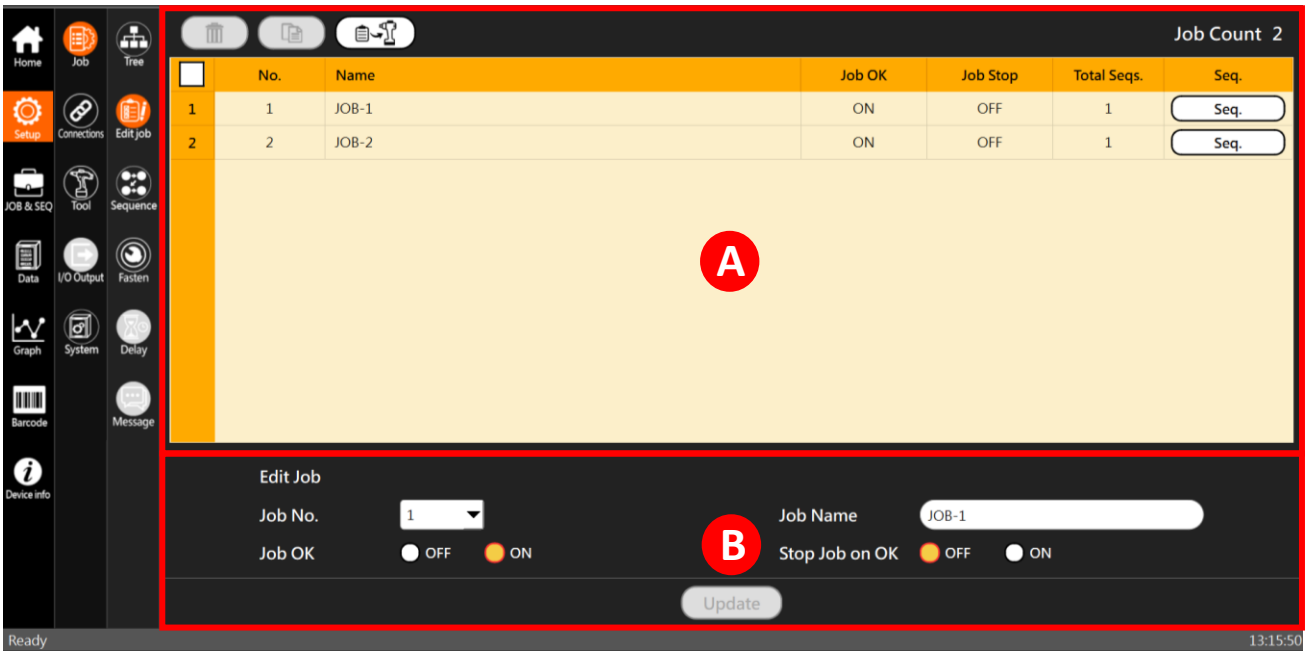
➢ Tree diagram

Display Job Tree view.



KILEWS

➢ Edit job



Ⓐ

Display Job Count and job overview; also allows adding, editing, deleting, and copying jobs.

SA Job Configure: Assign the system's job number to the tool's job.

Configure: Each setting must be saved by pressing "Configure."

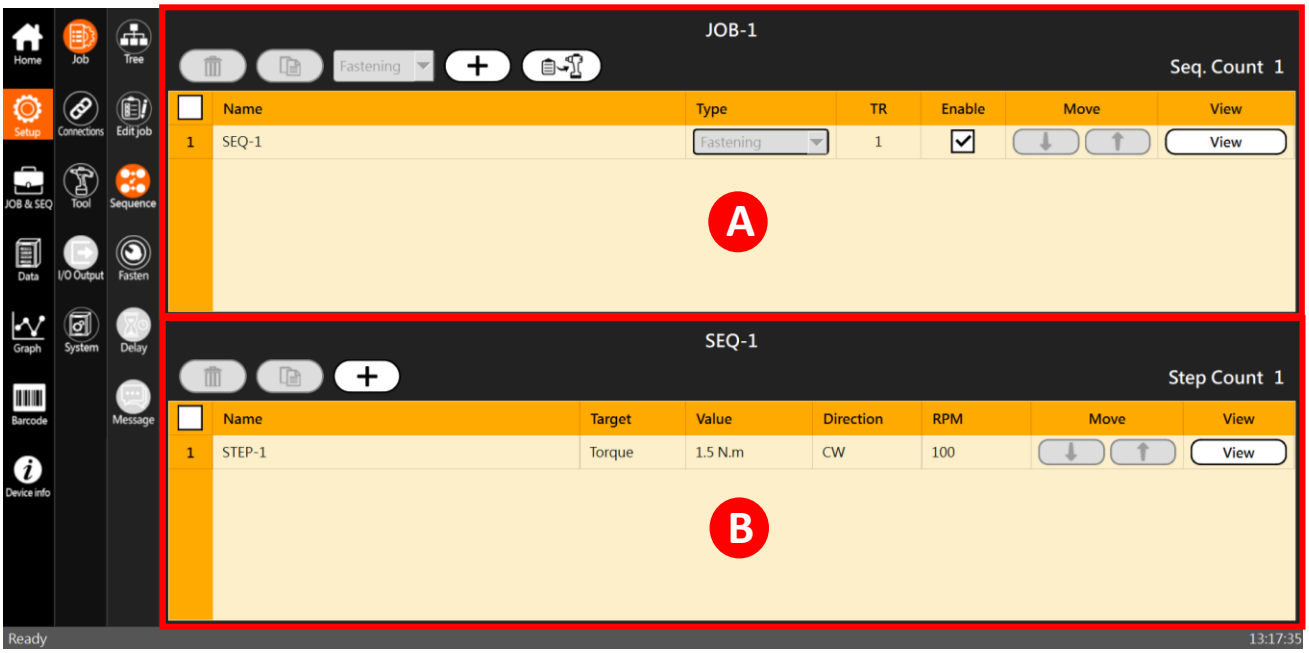
Close: Close the current window.

Note: After completing each parameter setting (include Sequence, Fasten and Barcode), the job parameters must be loaded into the tool from the standalone job settings to synchronize the system and tool parameters.

Ⓑ You can add or edit job parameters; after setting, press "Add" or "Update."

KILEWS

➢ Sequence



Ⓐ Display the current job number, job overview, and sequence count; also allows adding, editing, deleting, or copying specified sequences.

SA Job Configure: Assign the system's job number to the tool's job.

Configure: Each setting must be saved by pressing "Configure."

Close: Close the current window.

Note: After completing each parameter setting (include Sequence, Fasten and Barcode), the job parameters must be loaded into the tool from the standalone job settings to synchronize the system and tool parameters.

Ⓑ Display the current sequence number, sequence overview, and step count; also allows adding, editing, deleting, or copying specified steps.

- Add or edit sequences

Job Name: Current job name

Seq. No.: Current sequence number

Seq. Name.: Set sequence name

Tightening Repeat: Total tightening repeats in the sequence

Seq. High Angle: Set maximum total angle for the sequence

Seq. Low Angle: Set minimum total angle for the sequence

Seq. OK: When the sequence is completed, “OK-SEQ” will be displayed; if select “OFF”, only “OK” will be shown.

Stop Seq. on OK: The screwdriver will be disabled when the sequence is completed.

Select Tool: Specify the tool to be used (mandatory).

Stop on NG:

NO: Display NG when tightening fails.

1: Display NS and disable the tool when tightening fails; press Confirm to clear the status.

2: Display NS and disable the tool when tightening fails for the Nth time; press Confirm to clear the status.

Timeout: The screwdriver will stop when the set time is reached.

Time Limit Notification: Set the tightening repeats or interval time between sequences; an audible alert will sound if no action is performed within the set time.

DT Time: Set interval time in seconds between tightening repeats.

TT Time: Set the time in seconds to complete the total tightening repeats for the sequence.

Reverse Button: Set screw removal direction or disable.

Reverse Force: Set screw removal torque as a percentage.

Reverse Disable on OK: Disable screw removal when tightening is OK.

Reverse Disable on NG: Disable screw removal when tightening is NG.

When both are enabled, screw removal is disabled for both OK and NG tightenings.

Reverse RPM: Set screw removal speed.

Reverse Count: Set screw removal tightening repeats counting method.

Reverse Threshold Torque: Set screw removal threshold torque.

Reverse Threshold Angle: Set screw removal threshold angle.

Add: Press "Add" to complete adding a new entry.

Update: Press “Update” after completing the edits.

Close: Close the window without saving any changes.

KILEWS

- Add and edit steps

Job No. / Sequence No.: Display current job number / sequence number.

Sequence Name: Display the current sequence name.

Step Name: Set the step name.

Target Torque: Set the screwdriver's target torque.

Target Angle: Set the screwdriver's target angle.

Joint Offset: Adjust the actual torque value to better match the displayed value.

Max Torque: Display the screwdriver’s maximum torque.

Step No.: Current step number.

Target: Select either target angle or torque.

Direction: Choose the screwdriver rotation direction.

Rundown Speed (RPM): Set according to the screwdriver specifications.

Delay Time: Set the delay time after the screwdriver completes tightening.

Monitor Mode: Set monitoring conditions.

Window: Use the set torque percentage as the condition.

Hi-Low: Set upper and lower torque limits as conditions.

Over Angle Stop: Stop method when the angle is exceeded.

High Torque: Set the upper torque limit.

High Angle: Set the upper angle limit.

Torque Window: Set the torque value as a percentage.

Angle Window: Set the angle value as a percentage.

Low Torque: Set the lower torque limit.

Low Angle: Set the lower angle limit.

Record Angle Value: Set the calculation method for the step and display the total angle on the main screen.

Interrupt Alarm: Alert that appears when a screw stroke is incorrect or incomplete.

Threshold Mode: Set threshold options.

Threshold Torque: When enabled, step angle calculation begins upon reaching the torque threshold.

Threshold Angle: When enabled, step angle calculation begins upon reaching the angle threshold.

Downshift Mode: Screwdriver downshift conditions when torque/angle conditions are met.

Downshift Torque: Set the torque value at the downshift point.

Downshift Angle: Set the angle value at the downshift point.

Downshift Speed: Set the rotation speed at the downshift point.

Add: Press "Add" to complete adding a new entry.

Update: Press "Update" to save edits.

Close: Close the current window.

- Fasten

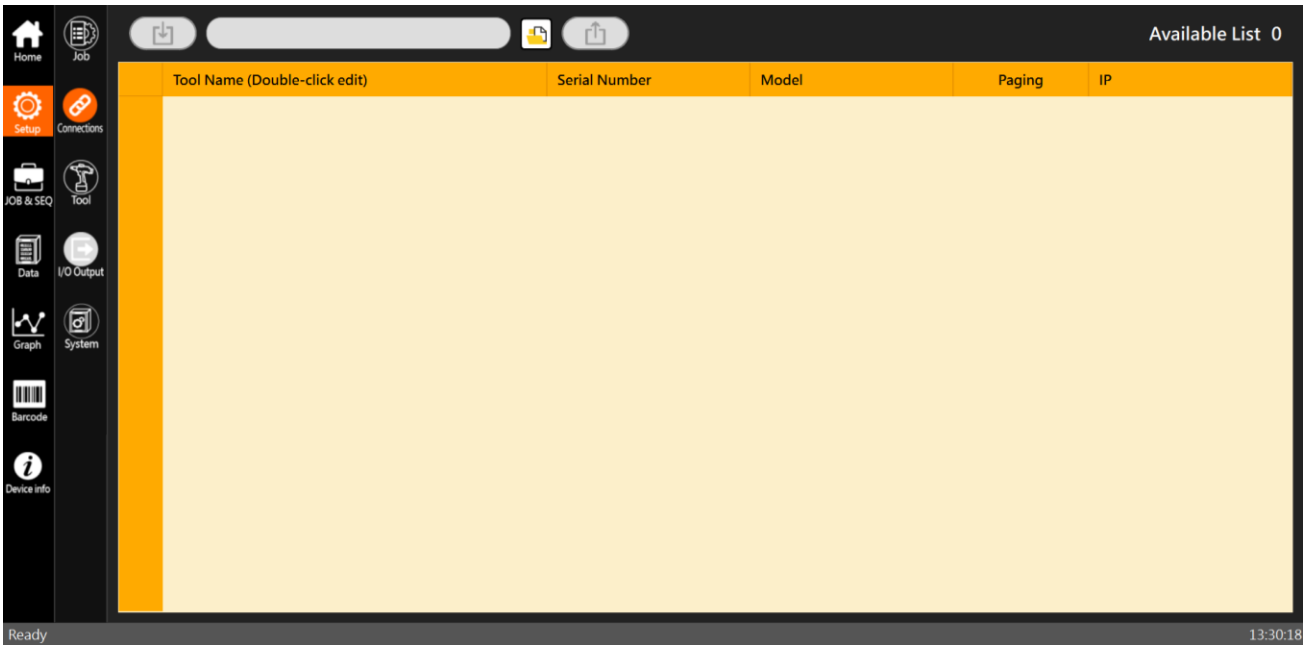
Editable step parameter settings

- Delay (Reserved, not available)

- Massage (Reserved, not available)

(2) Connections

Display connected tools and their information.



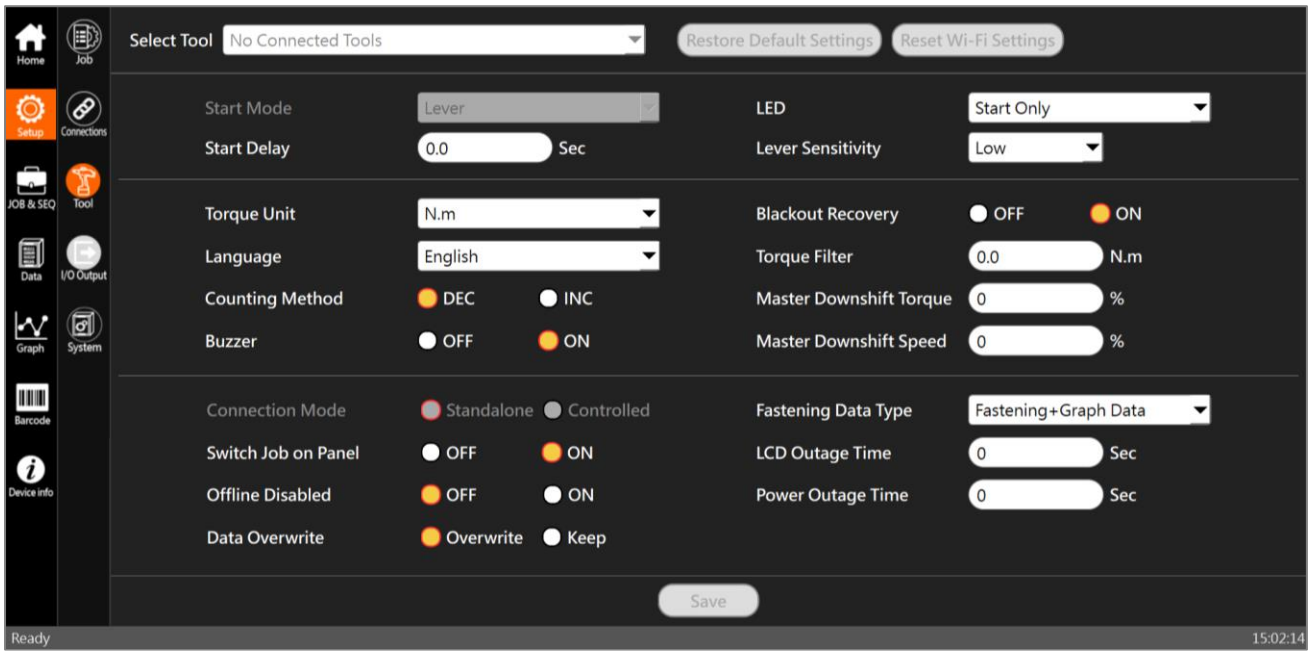
Export(Download) : Export tool configuration data. (Click the icon to navigate to the access path XXXX_export>tools.)

Import : Import tool configuration data. (Click the icon to navigate to the access path XXXX_export>tools), select the .img file to import, and then write the settings to the tool.

(3) Tool

Configure parameters for the specified tool, Restore Default Settings and Reset Wi-Fi Settings.

Note: When the screwdriver loses power, it must be manually started (press the activation pressure plate or the left button on the screen).



Start Mode: Tool startup method.

Start Delay: Interval time (seconds) between two consecutive presses of the activation pressure plate.

LED: Set the tool light activation method.

Lever Sensitivity: Set the sensitivity of the activation pressure plate.

Torque Unit: Torque unit of the tool.

Language: Tool language.

Counting Method: Tool counting mode.

Buzzer: Tool sound mode.

Blackout Recovery: Determines whether the tool remembers the last action when power is lost.

Torque Filter: During screwdriver operation, real-time torque below the set value will not be displayed; only values above the torque filter point are shown.

Master Downshift Torque: When reaching a percentage of the step's target torque, the screwdriver downshifts to a percentage of the tool’s maximum specification torque.

Master Downshift Speed: Downshift speed as a percentage of the tool’s maximum specification rotation speed.

Connection Mode: Tool mode selection.

Switch Job on Panel: Set whether to switch jobs from the screwdriver.

Offline Disabled: Option to allow or prevent tool operation when offline with the app.

Data Overwrite: Choose whether to overwrite existing data.

Fastening Data Type: Display format of data after tightening is completed.

LCD Outage Time: Time the tool can still operate after power loss (LED white light remains on); pressing any tool button will turn the LCD back on.

Power Outage Time: After power loss (LED white light off), press the activation pressure plate or left button to start the tool.

Note: After triggering low voltage (0%), the tool will automatically shut down after 60 seconds.

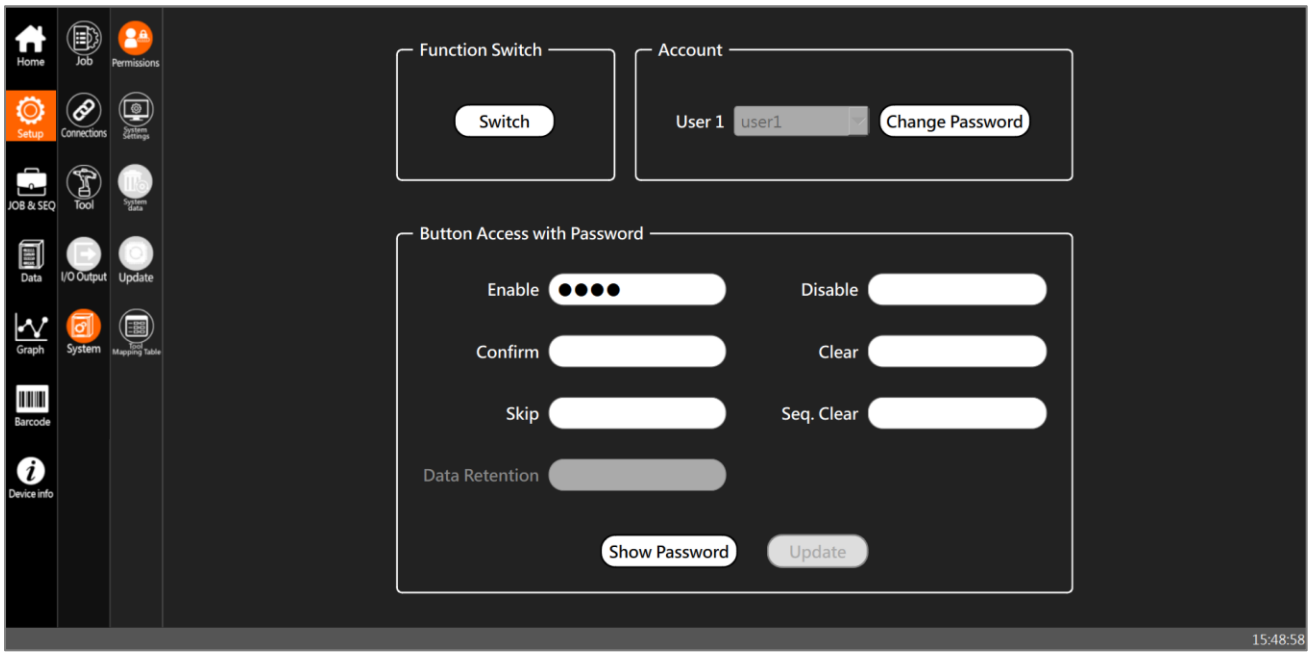
Save: Press “Save” after completing the edits.

KILEWS

(4) I/O Output (Reserved, not available)

(5) System

➢ Permissions



Function Switch: Please contact your distributor for this function.

Account:

Log in with an administrator account to set permissions for each user.

Using the default account allows only the password to be changed.

Button Access with Password: Can be set to 4–10 characters; only numeric characters are supported.

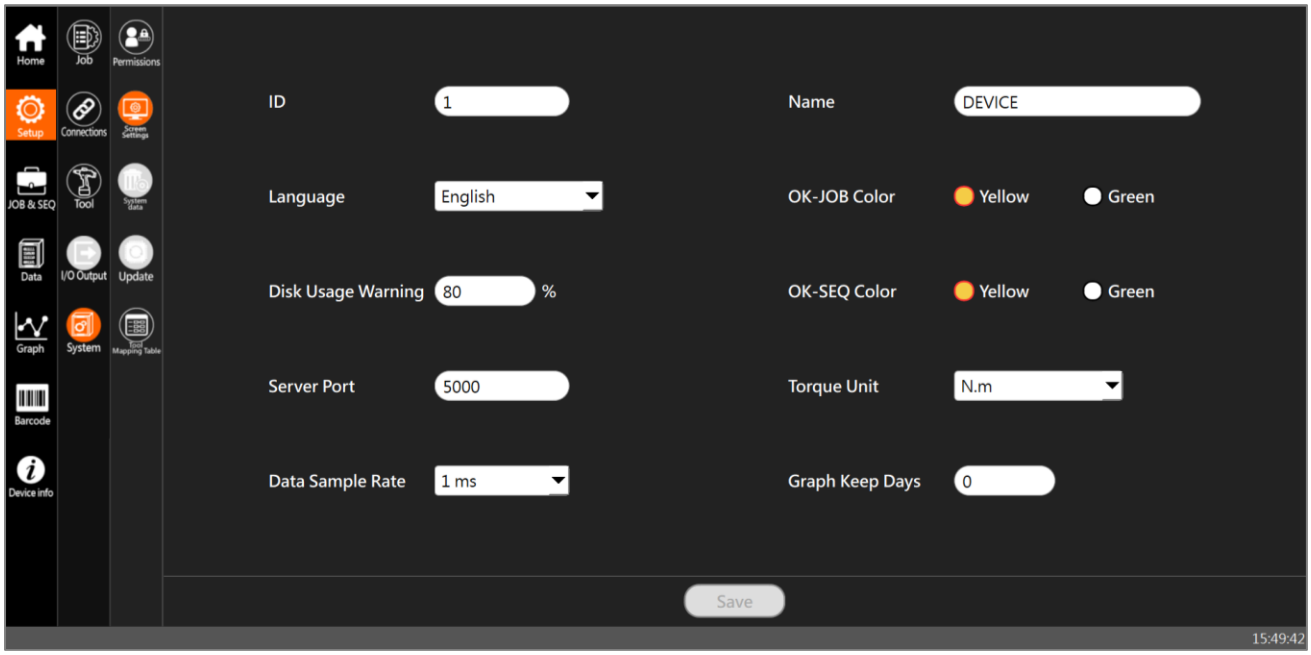
(The grayed-out fields indicate that this function is currently unavailable.)

KILEWS

➢ System Settings

You can configure the system ID, name, language, OK status color, torque unit, and other basic settings.

Note: The communication port defaults to 5000 and modification is not recommended.



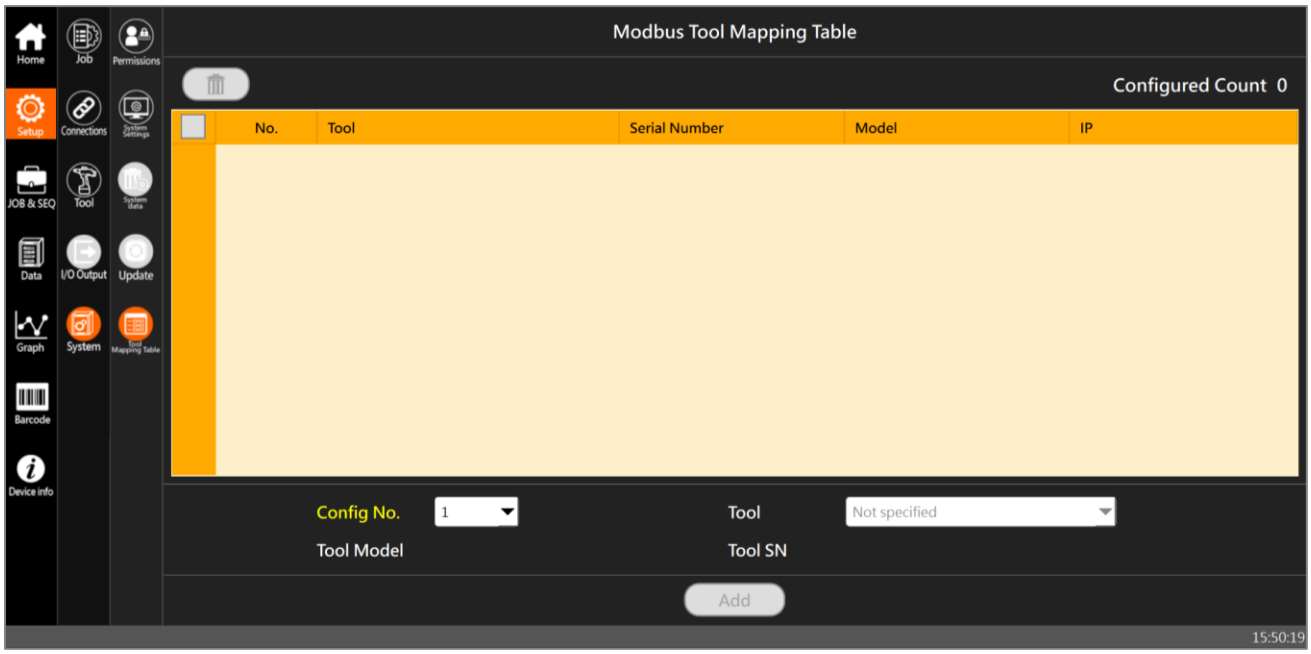
➢ System Data (Reserved, not available)

➢ Update (Reserved, not available)

KILEWS

➢ Tool Mapping Table

You can add and view Modbus tools.



KILEWS

3. JOB & SEQ

Standalone Switch Job & Sequence: After selecting the task for the specified tool, press “Switch” to activate the task.



Tool Job: Name of the tool’s task

No.: JOB number in this system (serial number)

Name: JOB name in this system

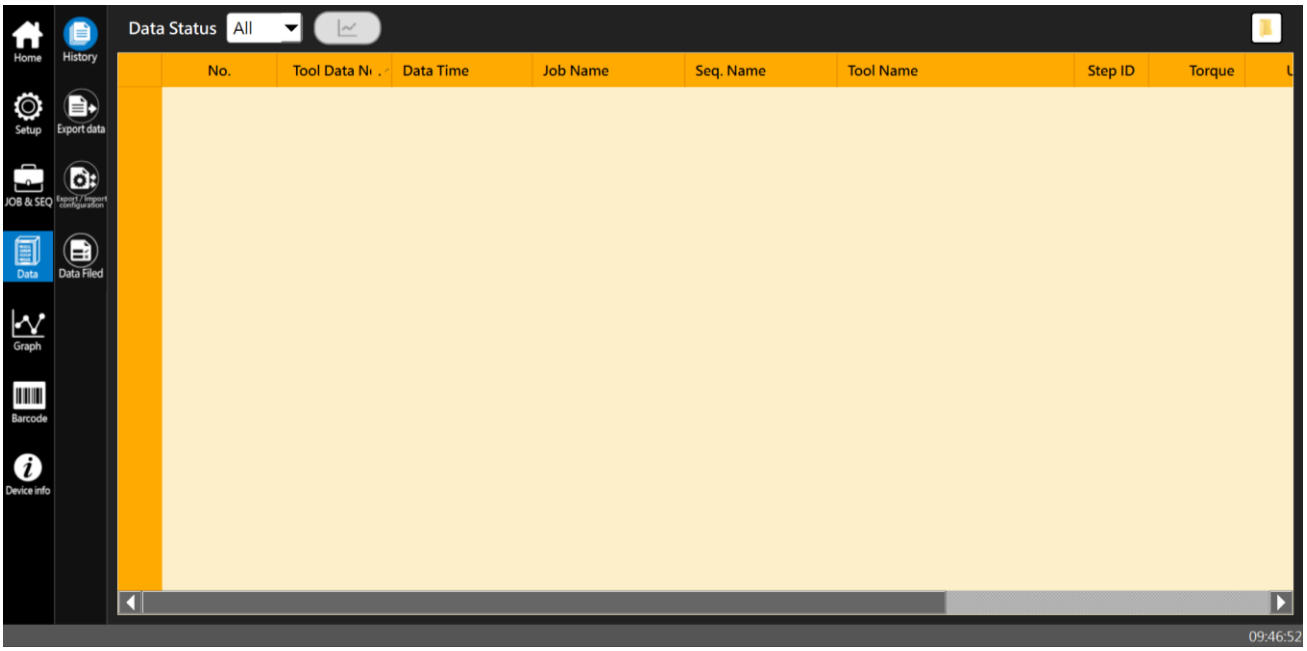
KILEWS

4. Date

(1) History

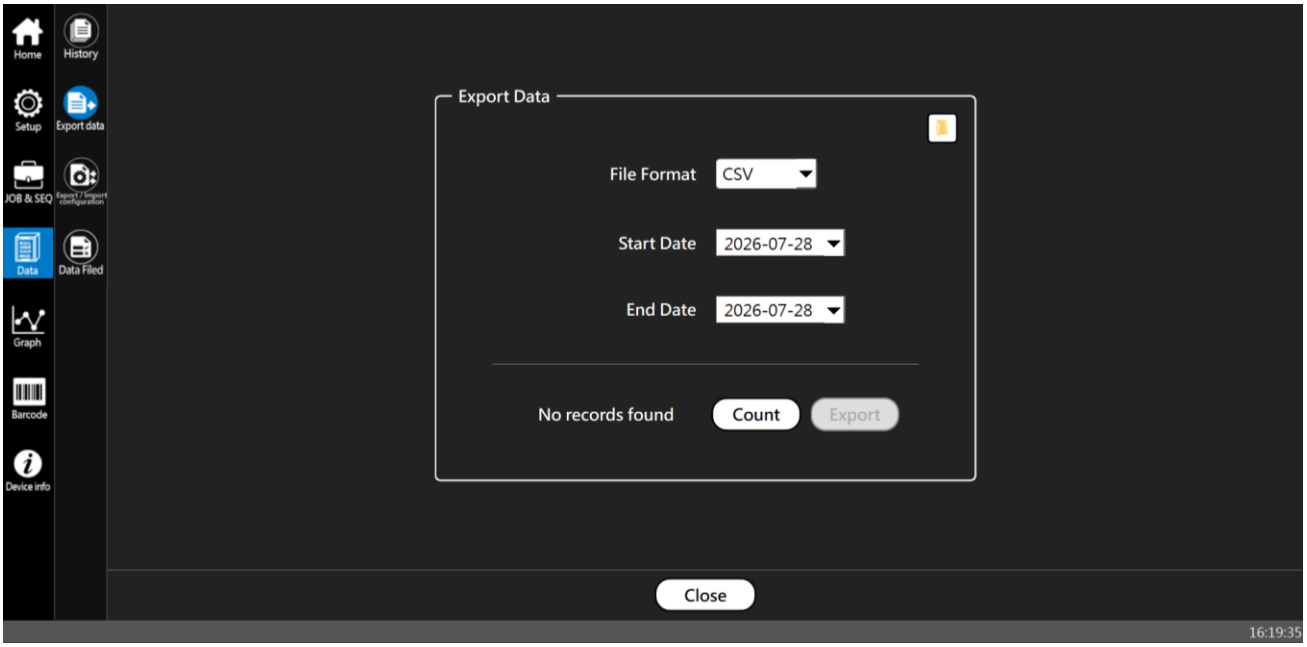
Selectable data display status and single screw curve graph.

(Click the folder icon to access the path: mtcs_export > graph)



(2) Export date

By selecting the File Format and start/end dates, you can query the number of records and export historical data. (Click the folder icon to access the path: mtcs_export > data)



KILEWS

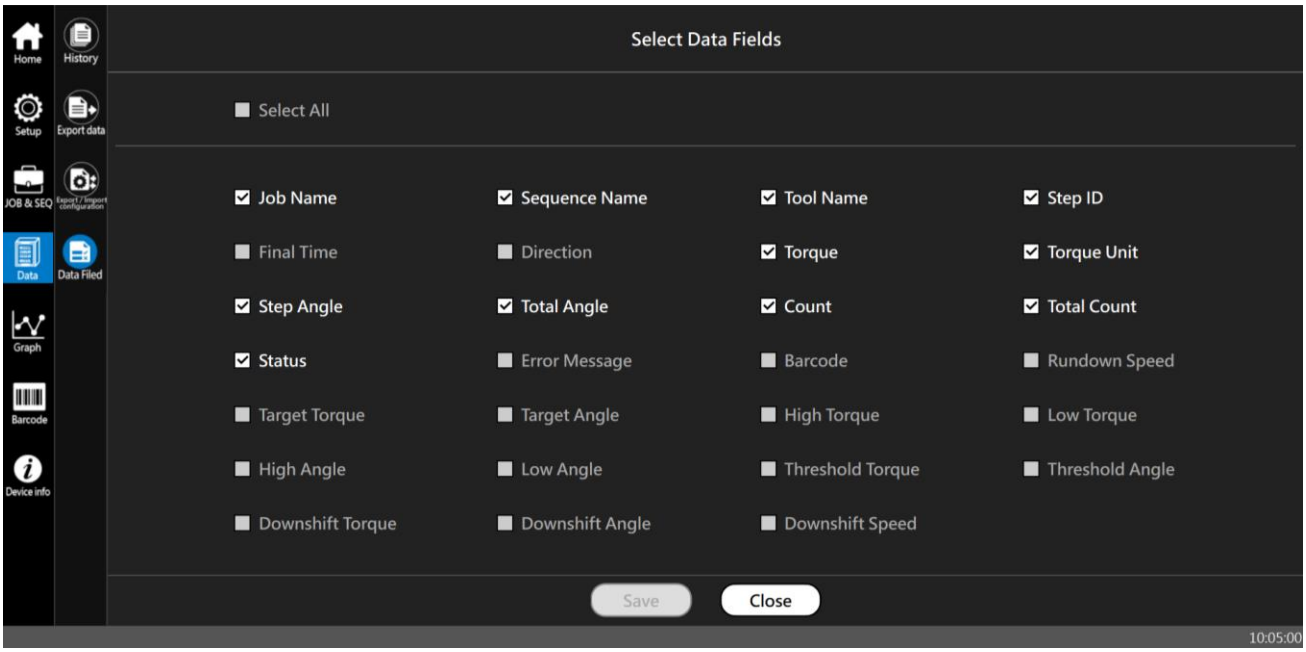
(3) Export / Import configuration

Select the file (.CFG) to export/ import, or reset the configuration file to restore the system settings to default. (Click the folder icon to access the path: mtcs_export > config)



(4) Data Filed

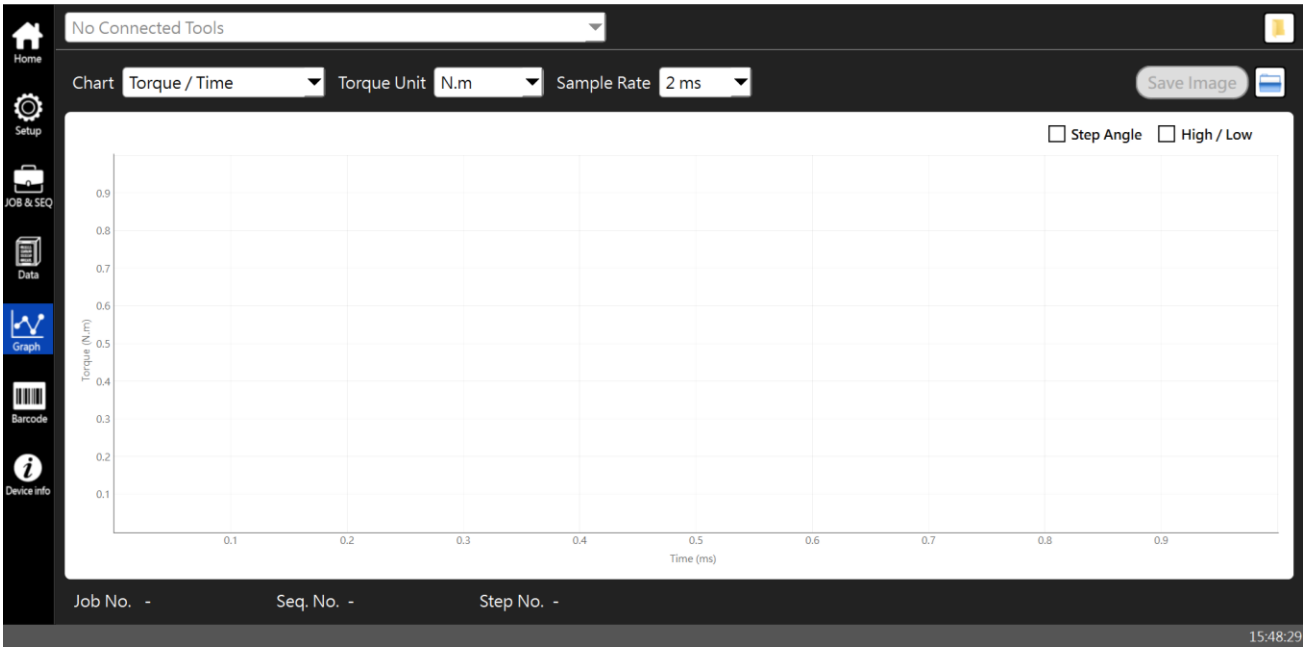
After selecting the column display mode, press “Save,” then press “Close” to exit the current window.



KILEWS

5. Graph

Select the specified tool and the graph display mode.



Tool: Select the tool.

Chart: Select the axis titles (X and Y axes).

Torque Unit: Torque unit for the graph.

Sample Rate: Sampling rate for the graph.

(Click the folder icon to access the path: mtcs_export > graph)

Save image: Click the folder icon to access the path mtcs_export > images > Tool Name

Image filename example: SN-512-1_20260202134529_T1

(Product serial number_YYYYMMDDHHMMSS_Sample Rate)

Filename naming rule
T : torque
A : total angle
θ : step angle
S : speed (rpm)

Step Angle: Displays the angle curve for each step.

High/Low: Shows the torque upper and lower limits.

Job No.: Displays the current job number.

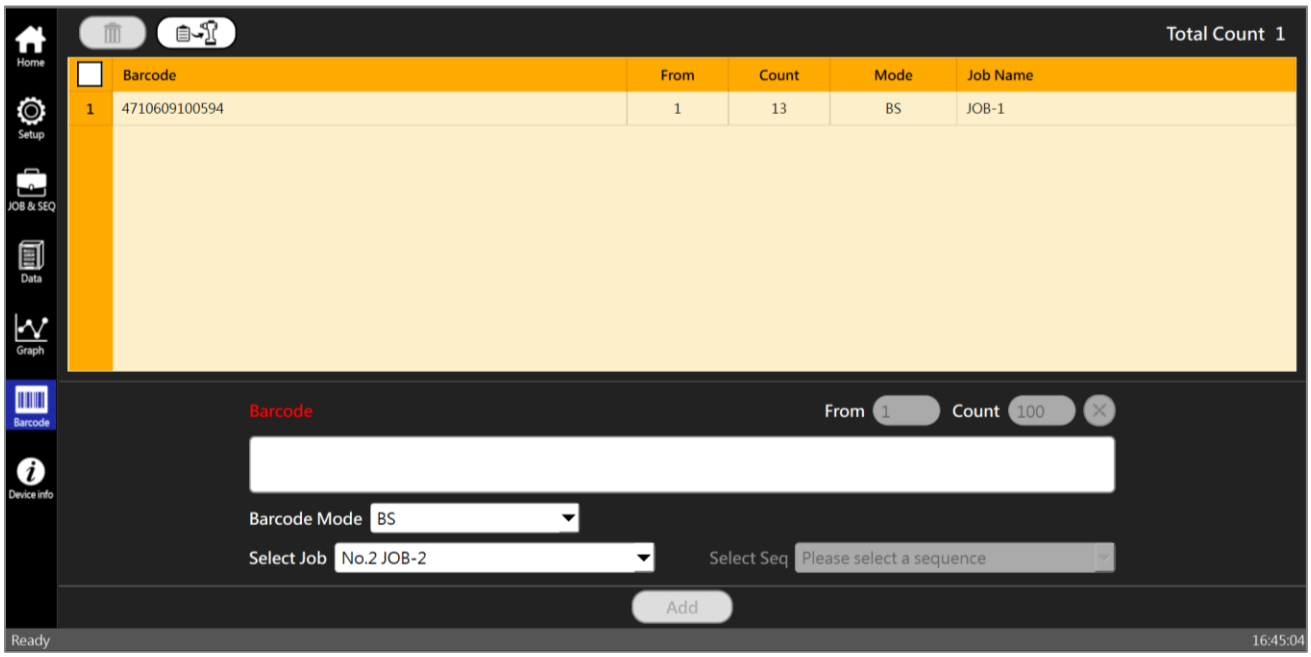
Seq. No.: Displays the current sequence number.

Step No.: Displays the current step number.

6. Barcode

After scanning the barcode, you can select a job or sequence and configure the barcode mode parameters.

Barcode: The APP's barcode interface can directly use the screwdriver's barcode sensor to scan and establish data, without requiring an additional barcode scanner connected to a computer for setup.

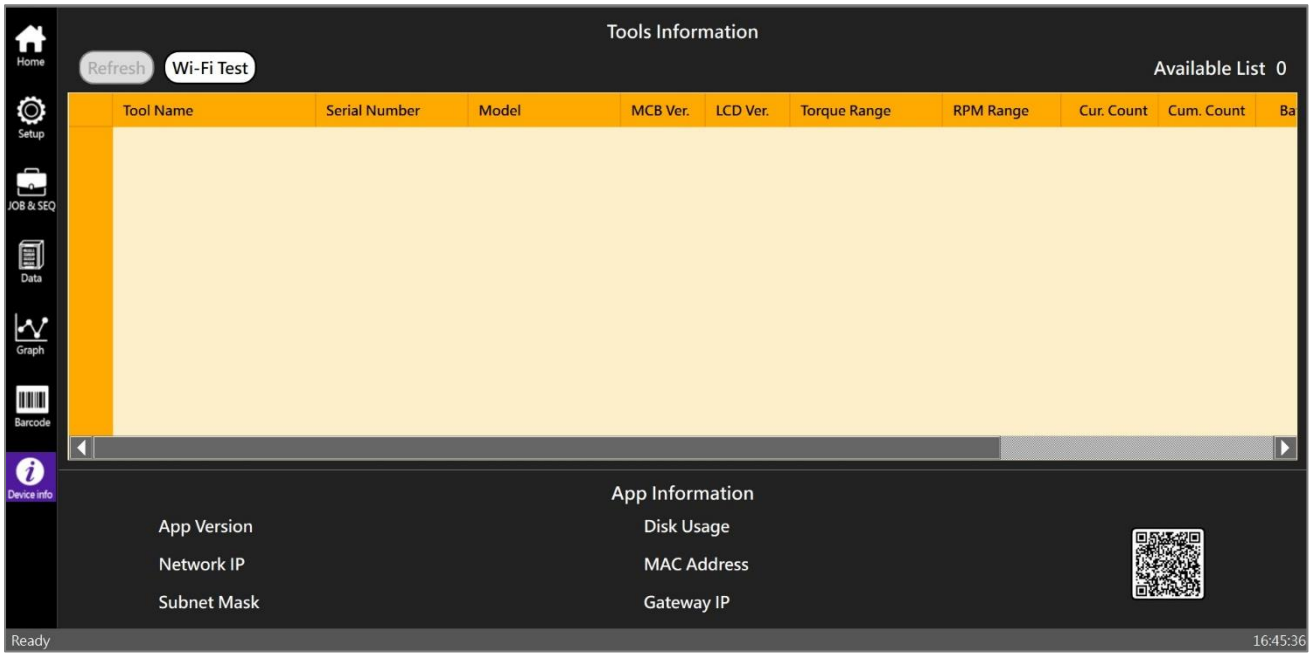


KILEWS

7. Device info

Displays information for connected tools and app. Click or scan the QR code to visit the official website and download the digital user manual.

Wi-Fi Test: Test the connection between the APP and the AP.



KILEWS

④ Declaration

Reminder again, please follow the relevant regulations and the international practice of the Internet. Never do anything illegal or harm to the company in any illegal way. You may not use this service to engage in violations of other's rights or illegal activities: Please acknowledge you have ownership for all your photos and texts. Do not post or transmit any files that are defamatory, insulting, threatening, offensive, indecent, defamatory, false, in violation of public order or good customs or other unlawful words, pictures or files in any form, nor infringe on the reputation or privacy of others, business secrets, trademarks, copyrights, patents, other intellectual property rights and other rights, and other acts that are deemed improper.