# COMTransmit Instruction

1. Instruction

COMTransmit is a debug tool for serial ports on Windows that supports setting port number, baud rate, parity, data bits, stop bits and flow type freely. The tool supports multiple serial port debugging, accessing serial port from remote through internet, single data sending, cycle sending, protocol data sending and file sending. It supports displaying data as a waveform, personalization in the receiving area (including timestamp, highlighting keyword), and saving data in the receiving area. It supports automatic detection of serial port insertion and removal, pin status bits of DCD, DTR, DSR, RTS and so on. COMTransmit provides both Chinese and English (switching through menu options), and supports twoswitching between GBK and UTF-8.

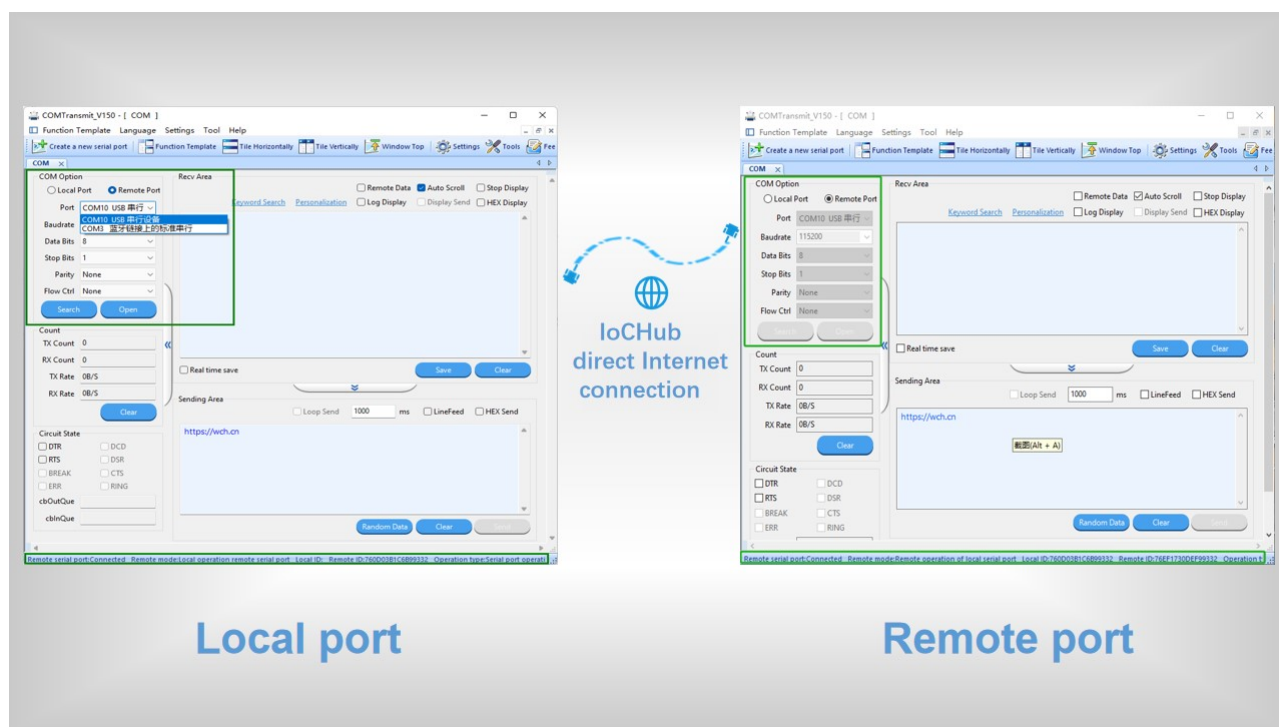Features: remote port   waveform display   personalization   keyword search

Four built-in function modes
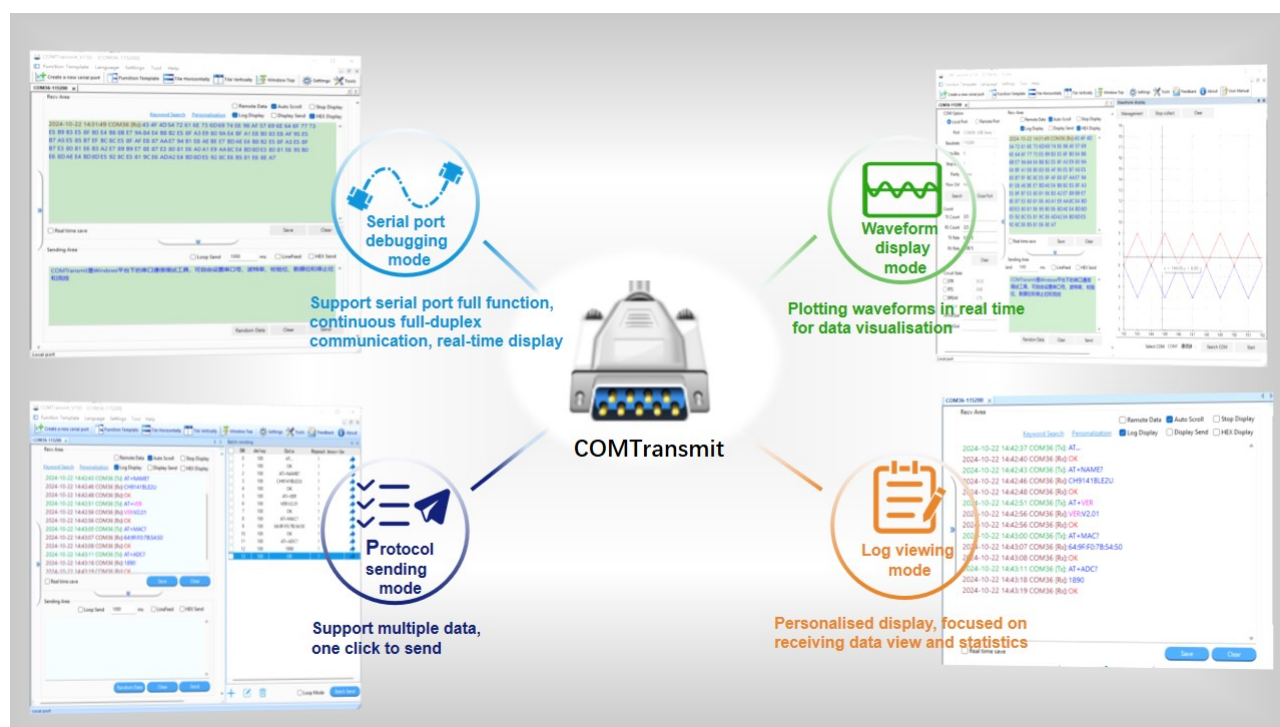
Personalized display the received data
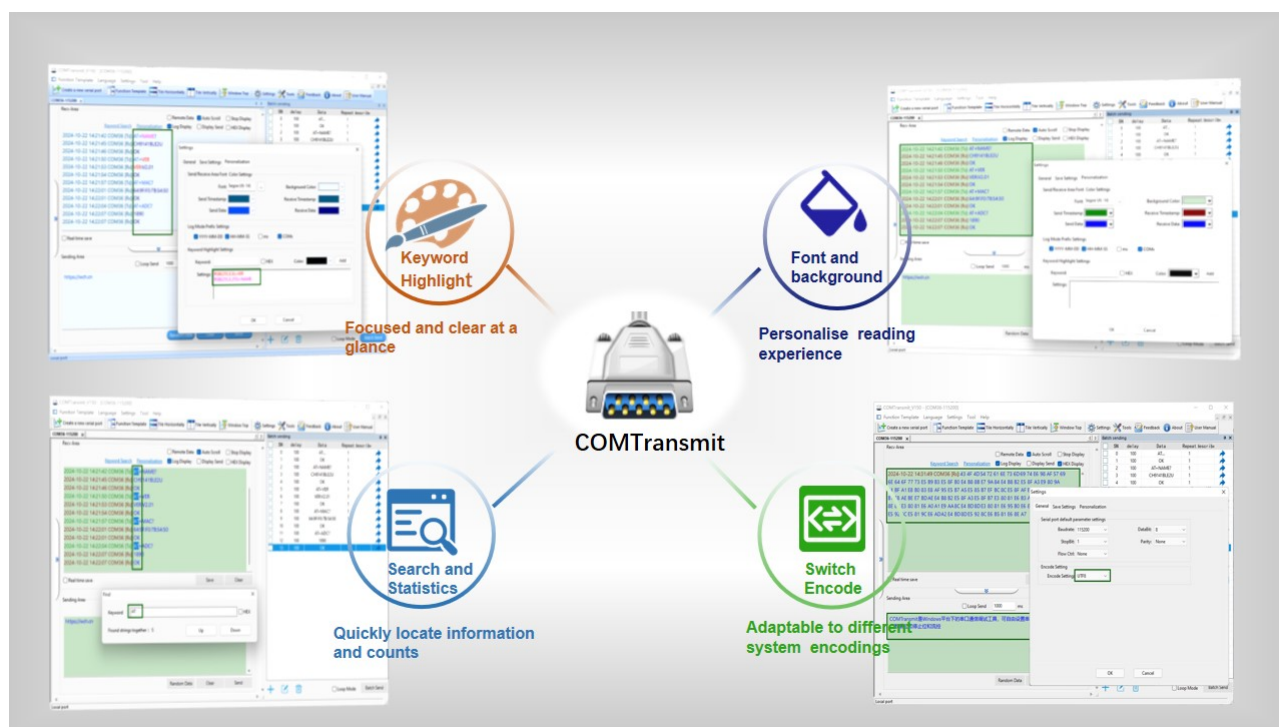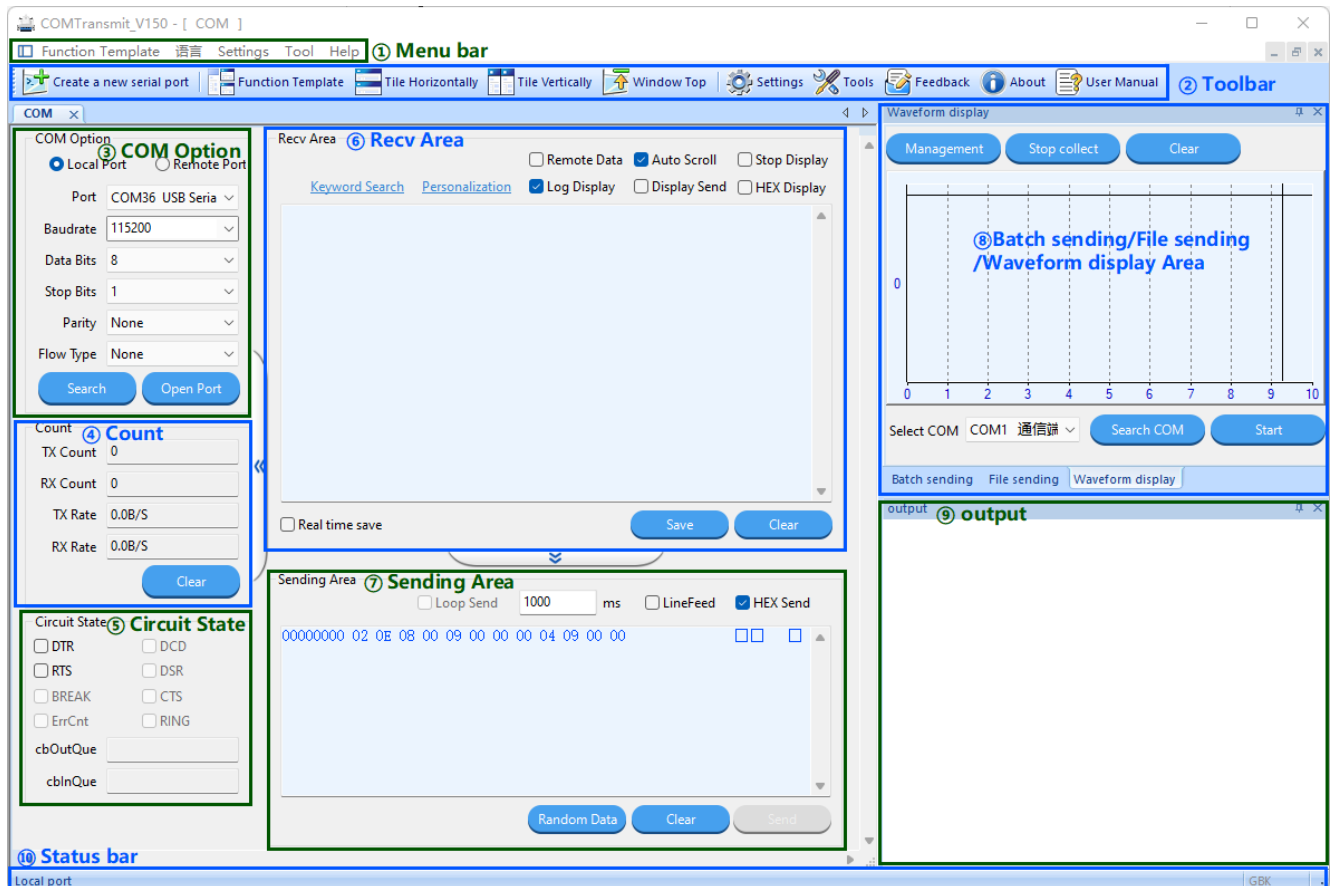

Remote port

2. Runtime

Win7/Win8/Win10/Win11 x86/x64

3. Detailed explanation of software features

3.1 Software interface distribution

The software contains functional areas are as shown above:

① Menu bar : List of software menus.

② Toolbar : Icon software toolbar.

③ COM Option: The selection and display of COM information.

④ Count: Display Send/Receive Count and Send/Receive Rate.

⑤ Circuit State: The detection and control of DTR, DCD, RTS, DSR and other pin status bits.

⑥ Recv Area : The area displays the data received by the serial port, supports log view mode (with timestamp), supports HEX/ASCII code, and personalization.

⑦ Sending Area :Enter the data, set the sending format and time interval.

⑧ Bath sending/File sending/Waveform display Area: The area of batch sending, sending files, waveform displaying received data/file data.

⑨ Output: Output operation information.

⑩ Status bar: Display the current operation type of serial port, if remote serial port operation, display the local ID and remote ID.

3.2 The function of menu bar

The menu bar has five items: Function Template, Language, Settings, Tool and Help.
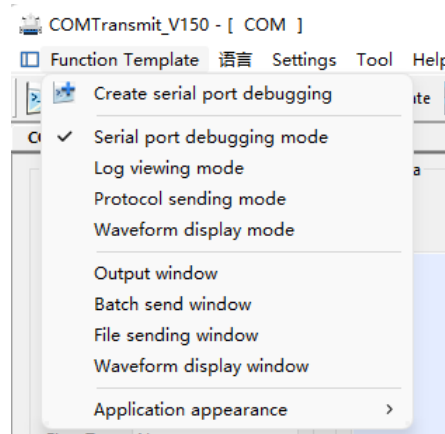
Function Template——>Create serial port debugging. Create a new serial port debug window.

The default setting is single serial port window when the software is opened. After clicking "Create serial port debugging", a new serial port window will be created, and the interface of new serial port window will be displayed in the top.
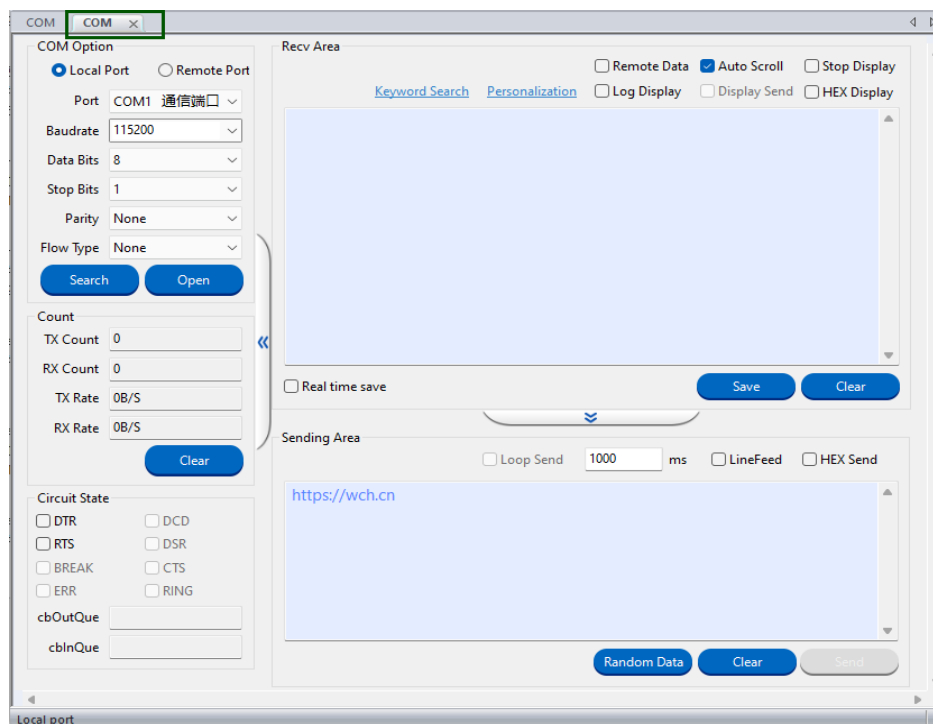

Function Template——>Output window/ Batch send window/ File sending window/ Waveform display window. Showing and hiding of these windows.

Function Template——>Application appearance. The software has five sets of classic appearance, including the background of sending area and receiving area, the timestamp color and data color of the receiving area, the background color of output window/batch sending window/file sending window/waveform display window, etc.
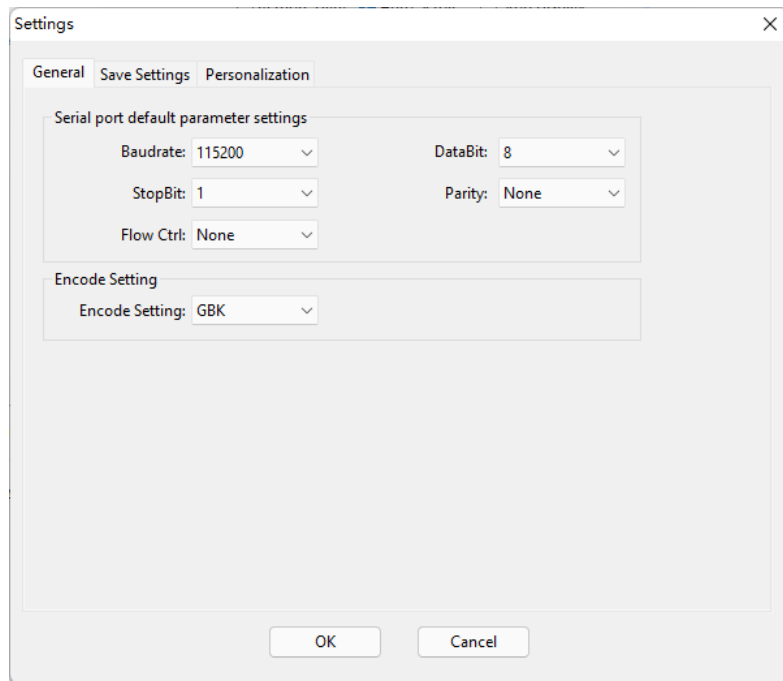
The default appearance is Deep Sky Blue. After switching to Dark Blue, the main interface is shown as follows:
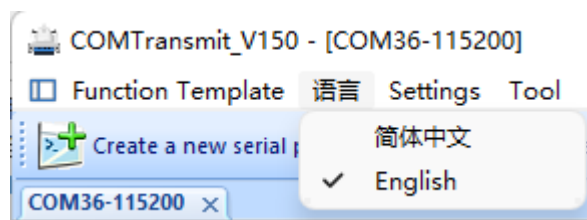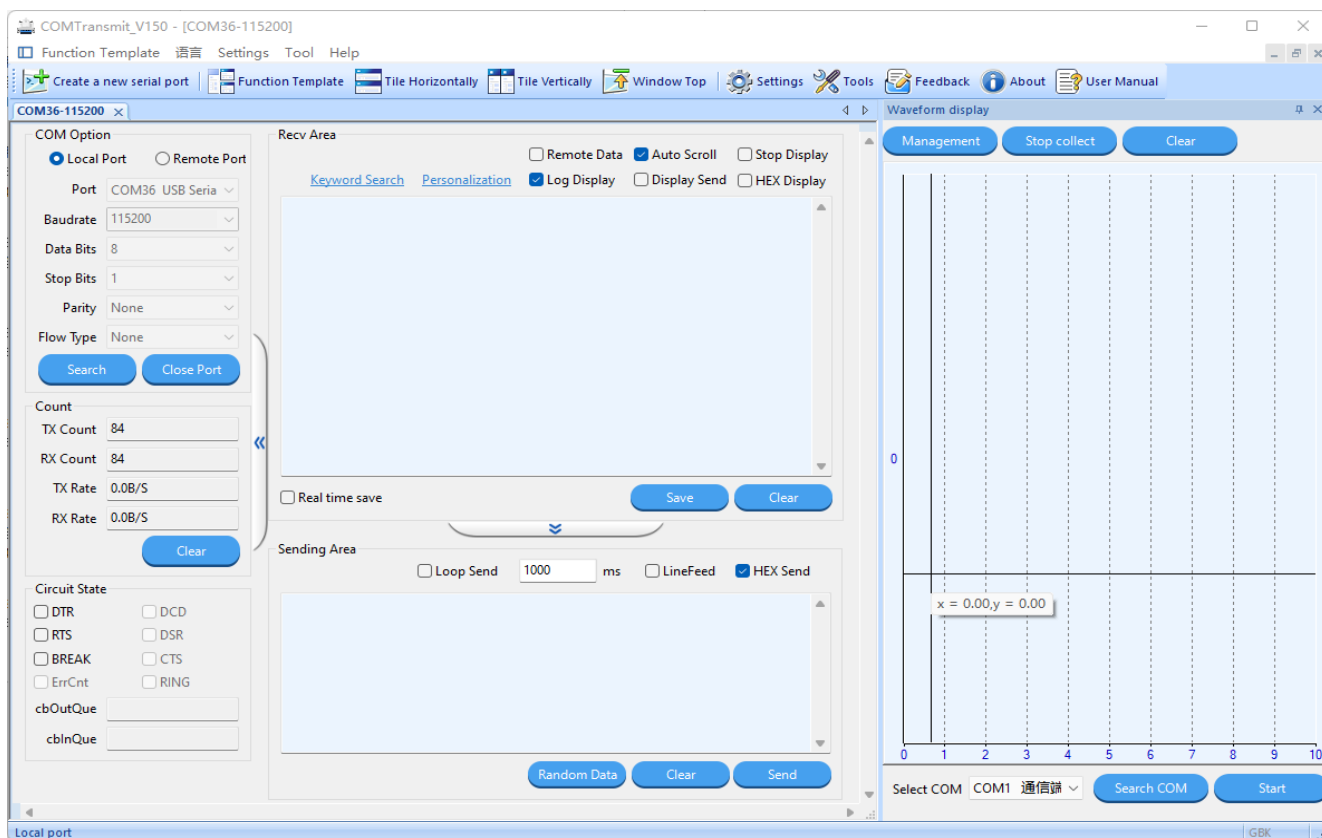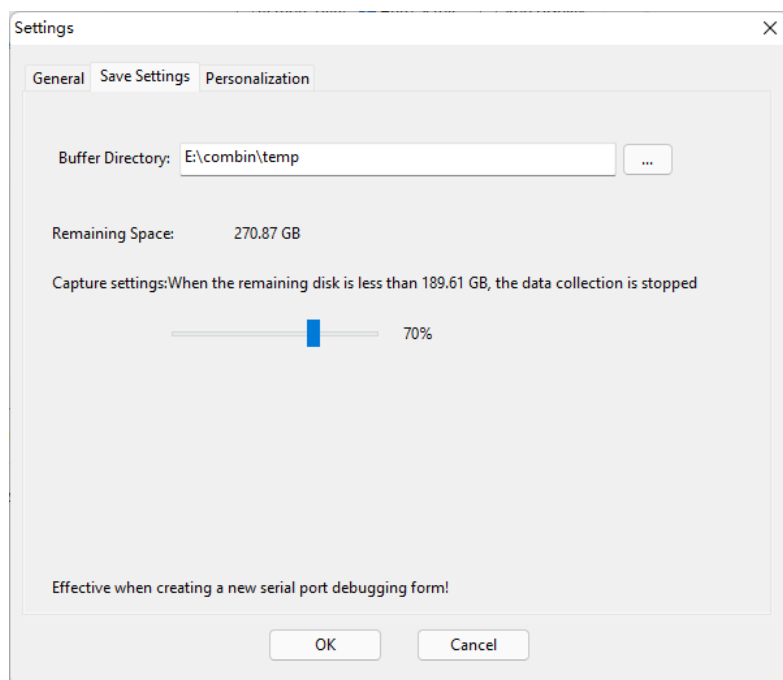
Language——>Switch between Chinese and English.
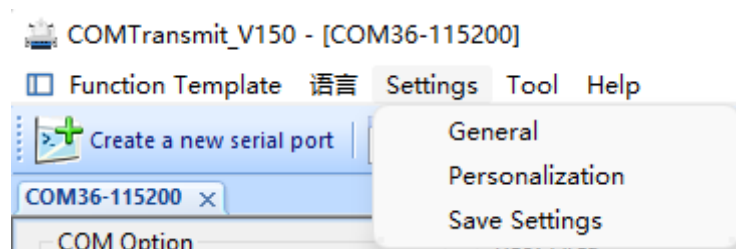
Settings——>General. Set the common parameters and encoding of the serial port. After setting, the parameters will update to the COM Option in the main interface automatically.

Settings——>Save settings. Set the buffer directory and capture settings.

Settings——>Personalization. It Supports personalized modifications for sending background color, receiving background color, font, font color, sending and receiving timestamp color, timestamp format and keywords.
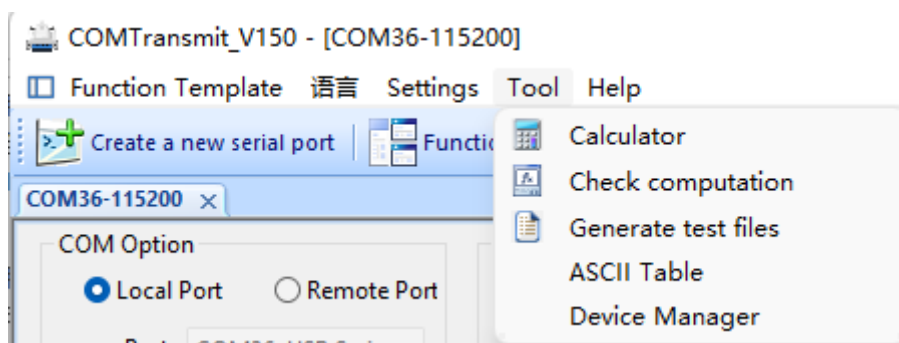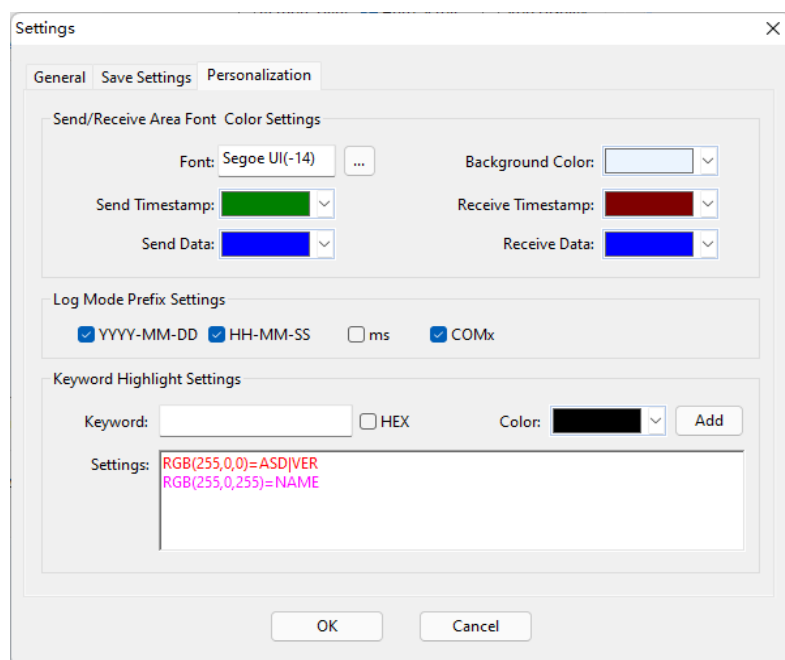
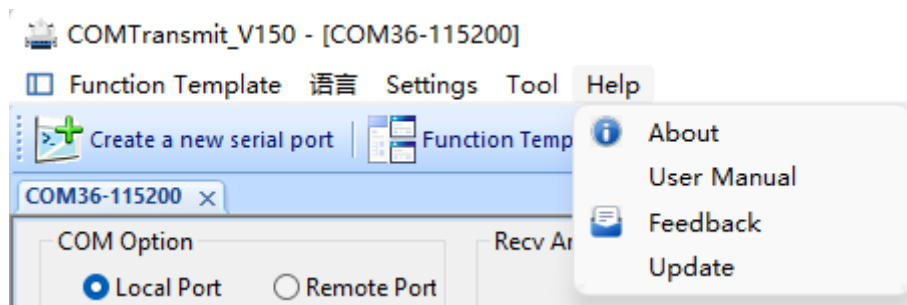Tool——>Calculator. Open the system calculator tool.

Tool——>Check computation. Call the check tool that supports calculation of multiple checksums on data/files .

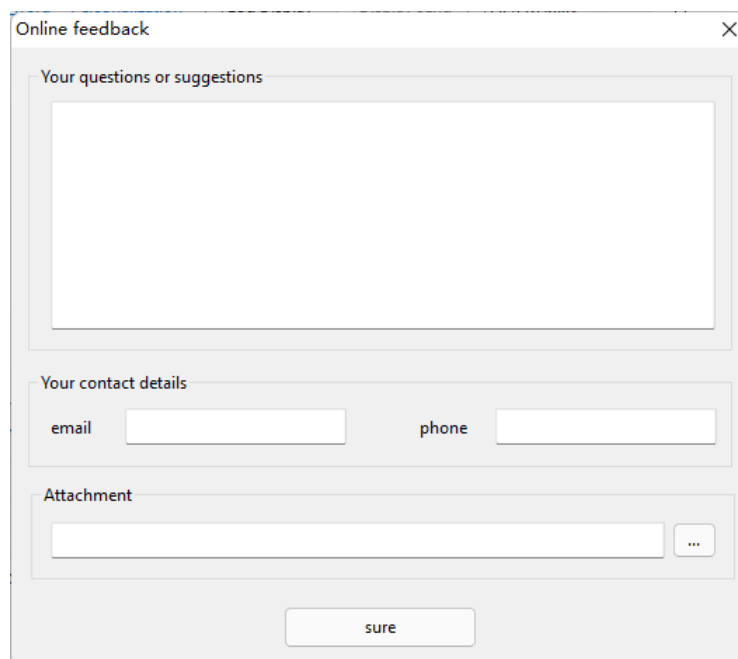Tool——>Generate test files. Call the tool that generating test files of any length and format.
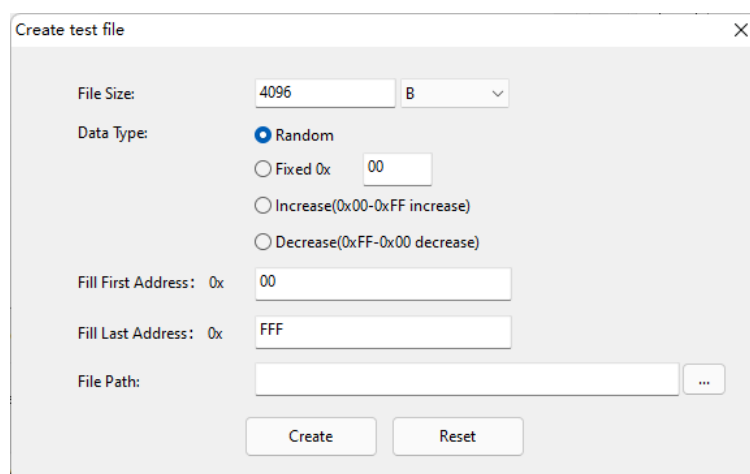
Tool——>ASCII Table.

Tool——>Device Manager. Open the system device manager.
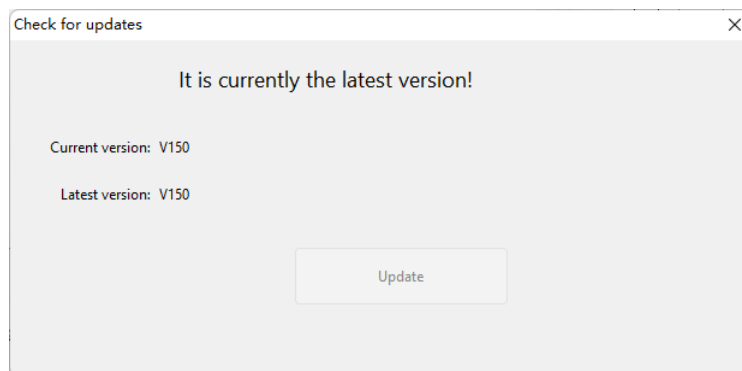

Help——>About. Display the version and copyright. Click contact us to go to the company's official website.
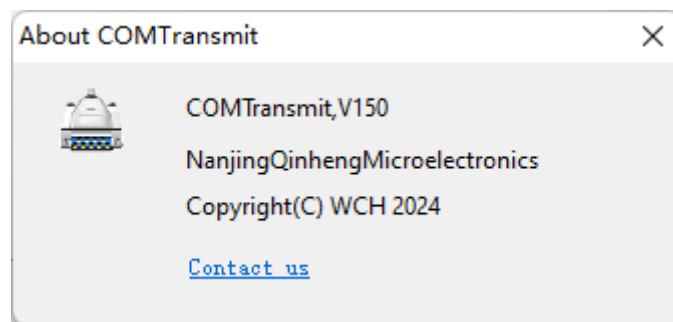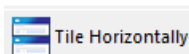

Help——>Feedback.

Help——>Update. Check the current version and the latest version. If the current version is not the latest version, click the button to update to the latest version.
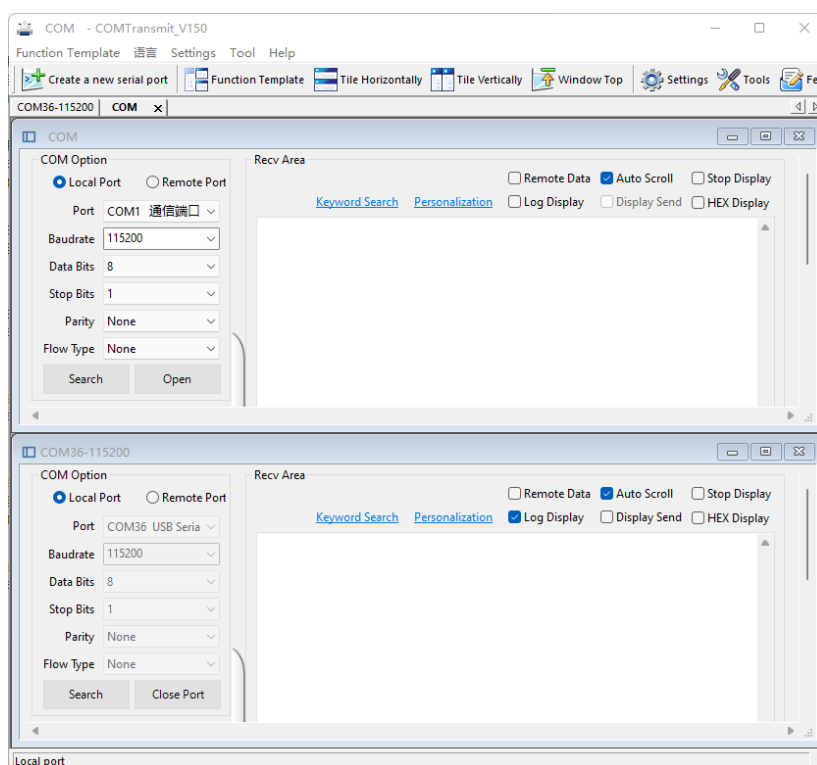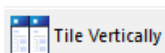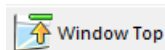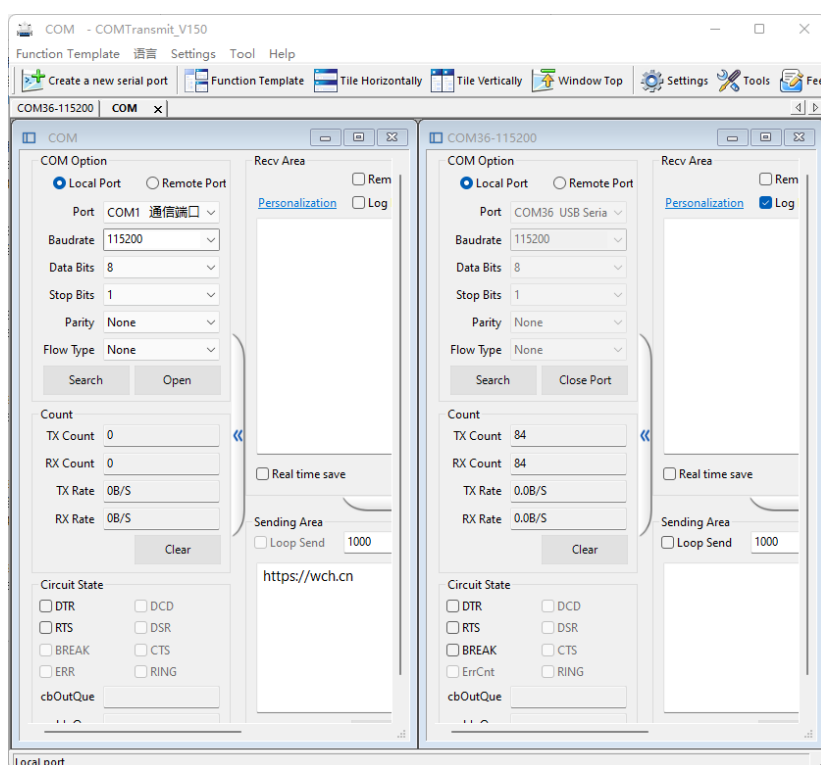

3.3 The function of toolbar

 When there are multiple windows, arrange the windows in a horizontal tiling fashion, as shown below:

Tile Vertically   When there are multiple windows, arrange the windows in a vertical tiling fashion, as shown below:
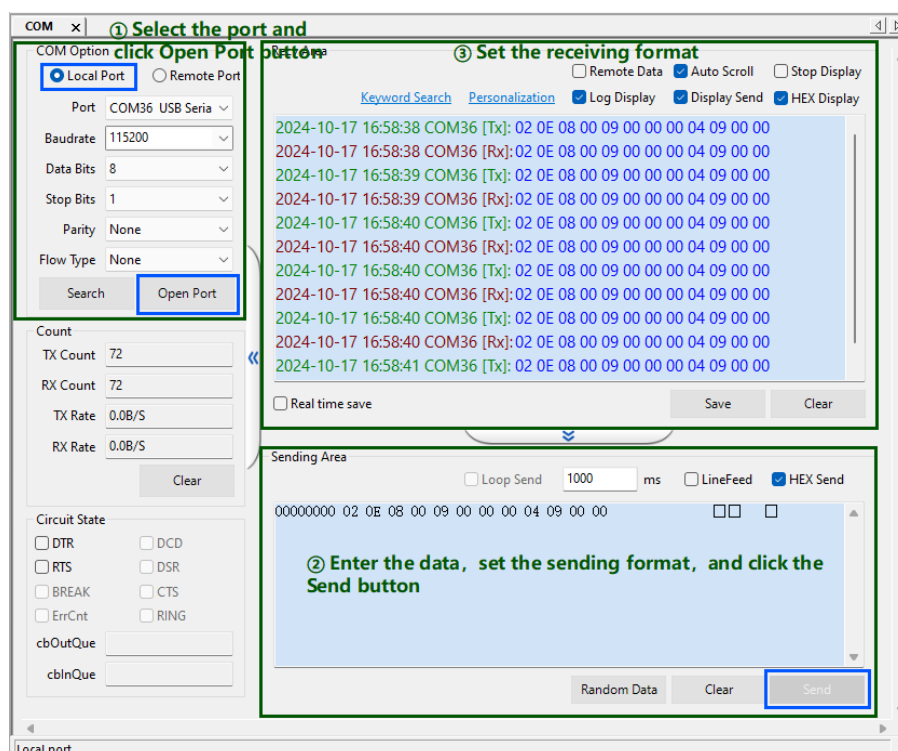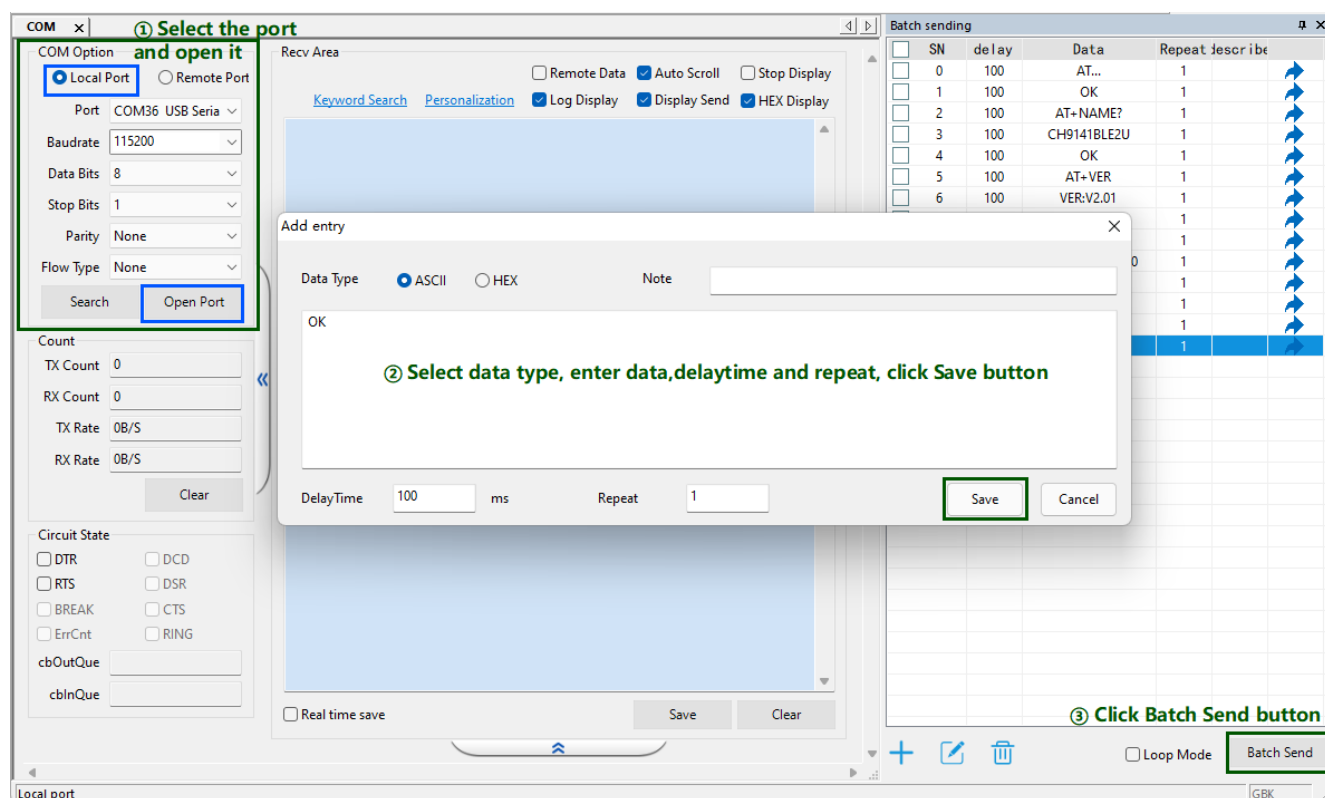

Window Top   Lock the window at the top.
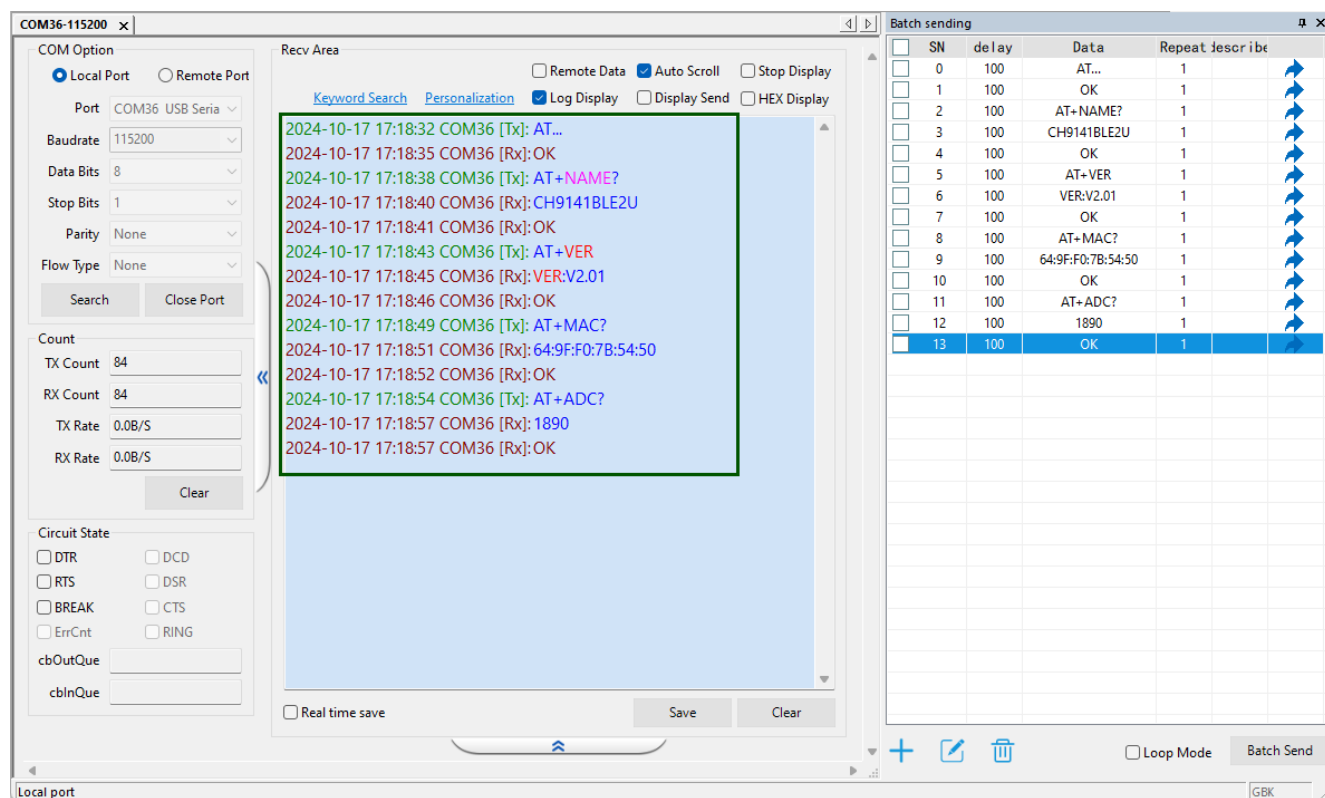
4. Functional operation instructions

4.1 Data sending and receiving

4.2 Batch sending

After clicking the "Batch Send" button, the received data is as follows:

4.3 File sending

4.4 Waveform display

4.4.1 Add Channel

② Click the add button,add the channel information,and click the save button

## 4.4.2 Preparation before data collection
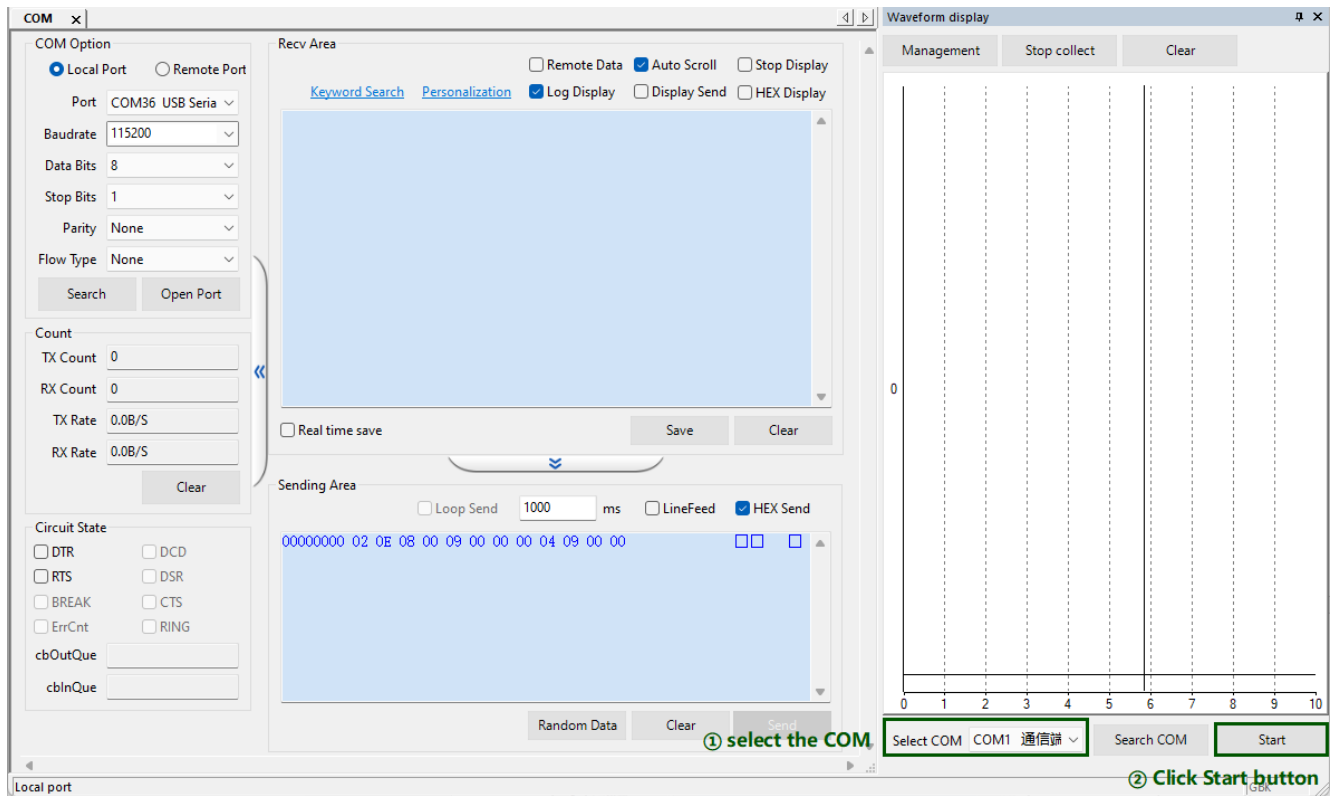
4.4.3 Collect data

There are two ways to collect data:

①   Real-time data collection. Sending data to the receiving area.

②   Collecting data from the file. Click the "Collect from files" button and select the file.

4.4.4 Data waveform display

Here is the second way to collect data.

(Note: if you select the first way to collect data, the serial port selected in Waveform display should be consistent with the serial port selected in COM Option.)
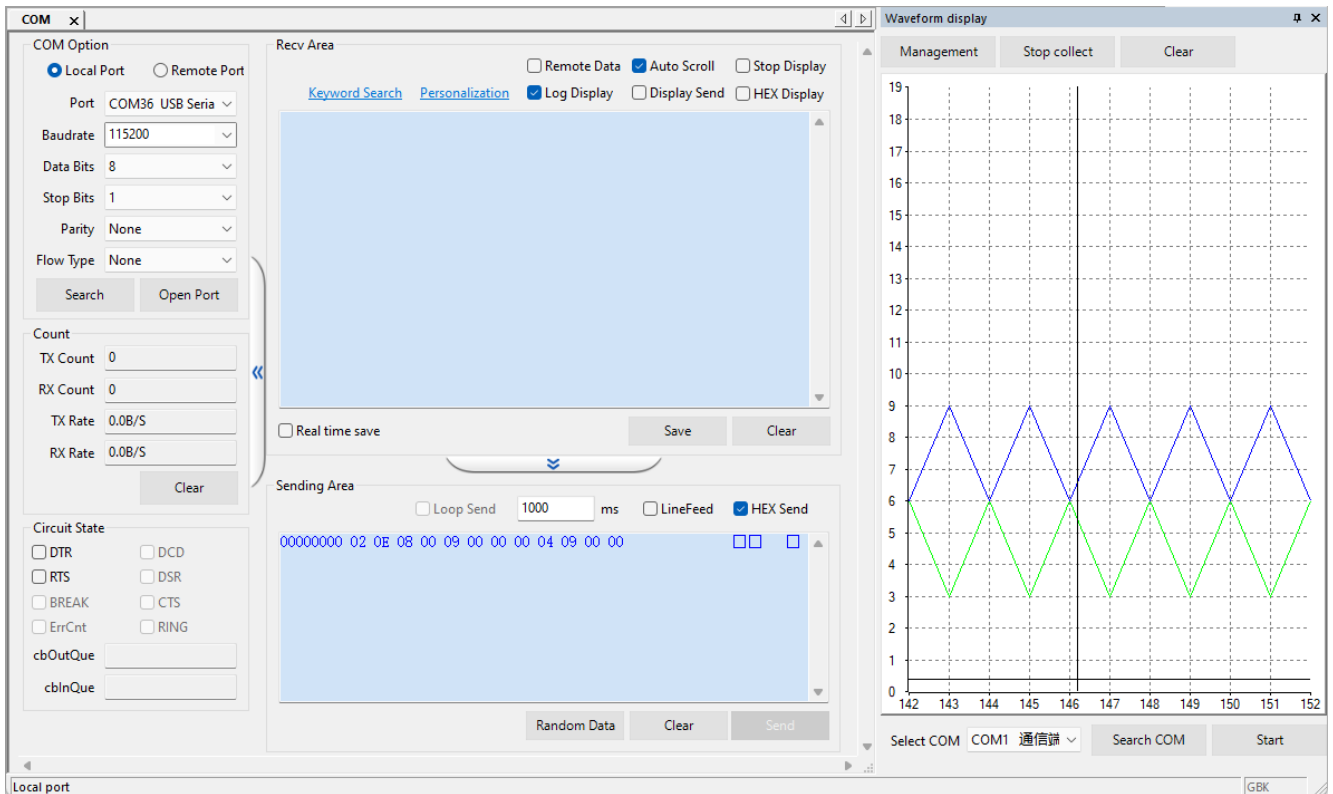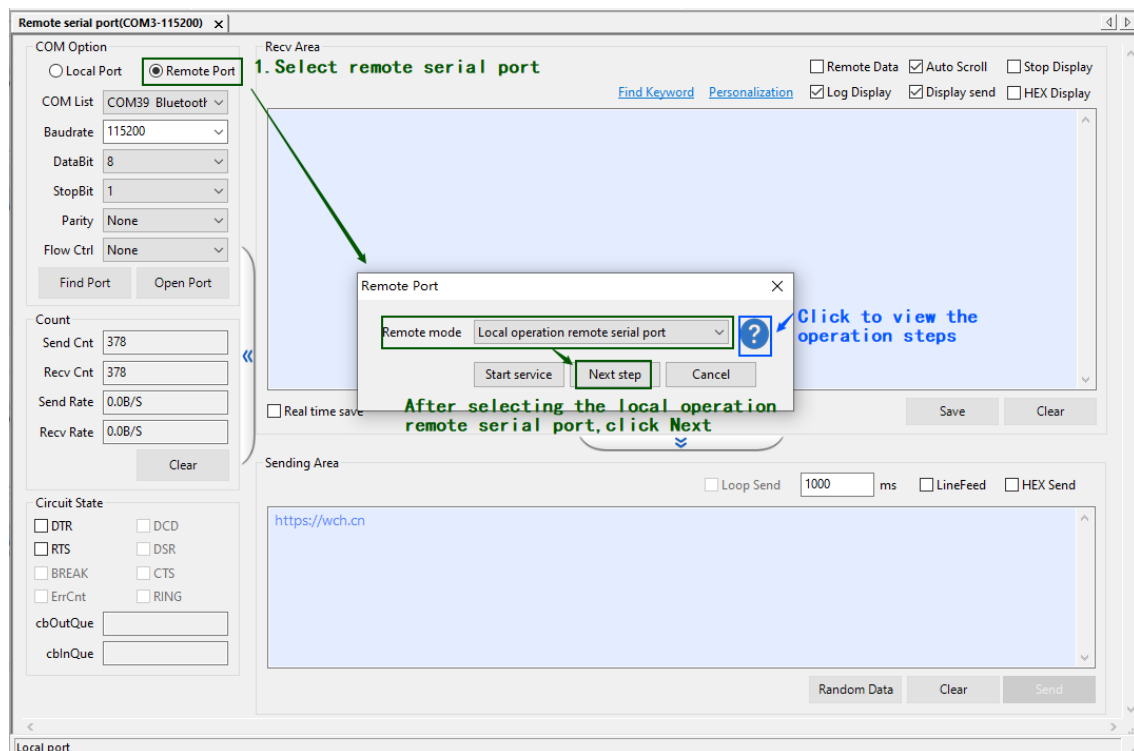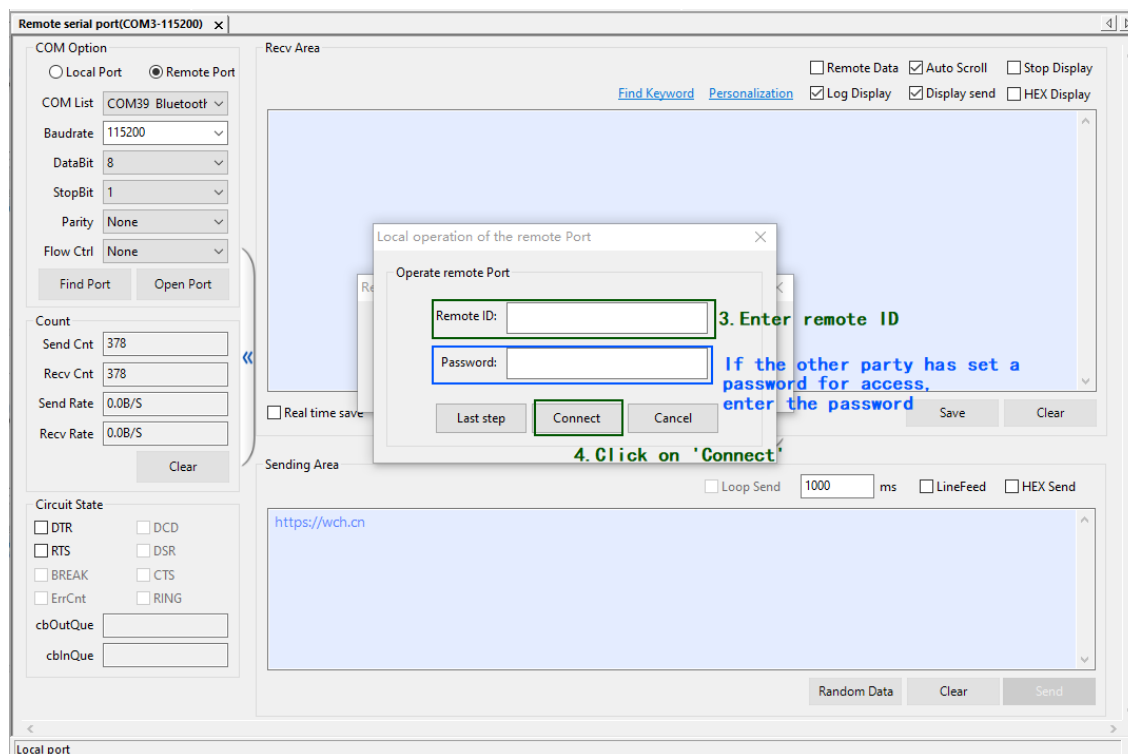
4.5 Remote Port

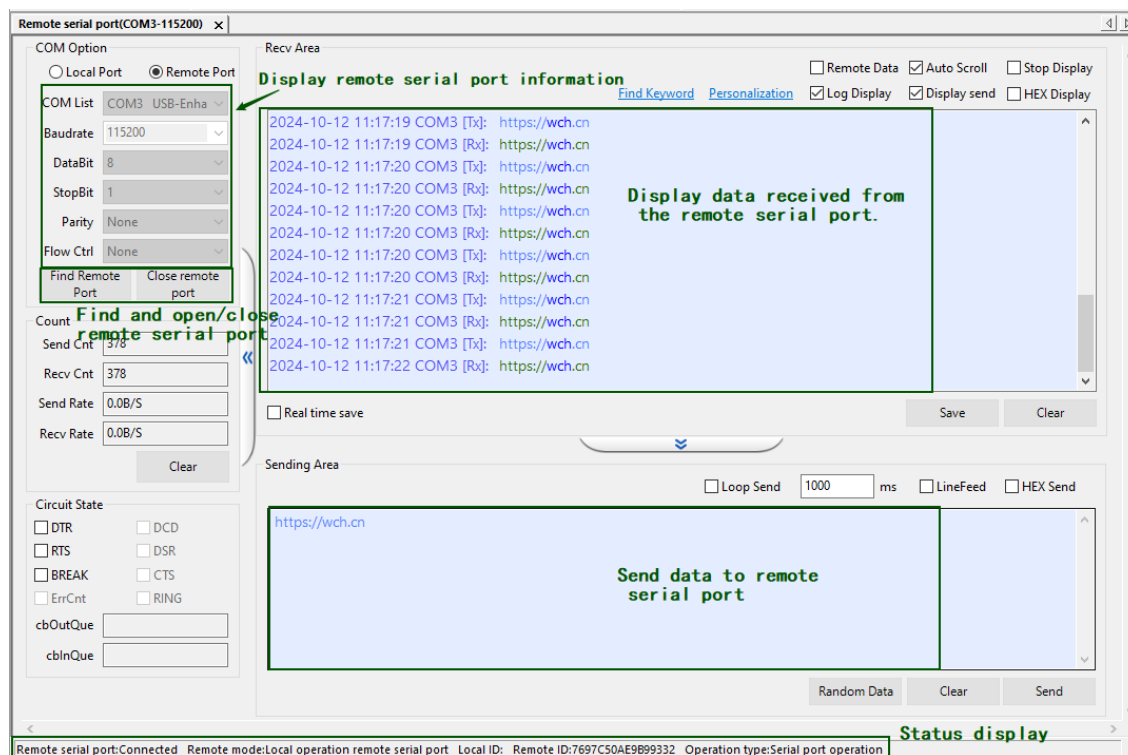### 4.5.1 Local operation remote serial port

Operation steps:

① Select "Remote Port".

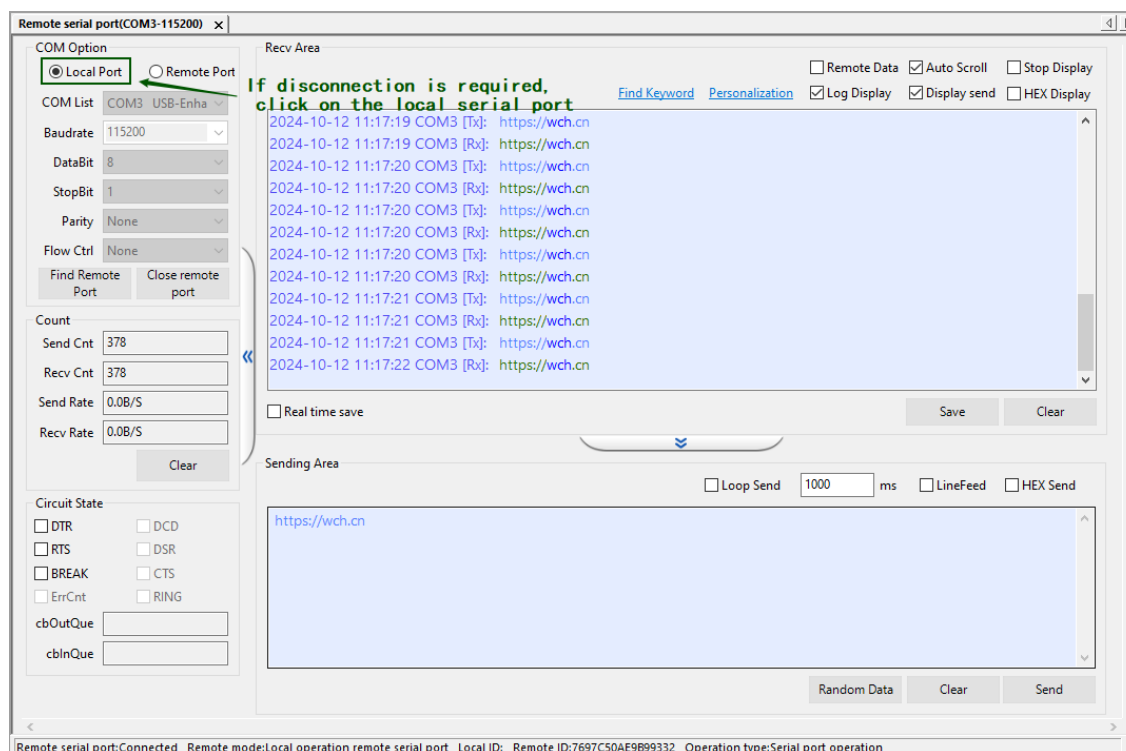② Select "Local operation remote serial port" and click "Next step" button.

③ Enter the Remote ID(obtain it from remote operator, refer to 4.5.2 for details)

④ Click "Connect".

After the remote connection is successful, the connection window will be closed automatically and return to the main interface for remote operation. At this time, the interface is as follows:
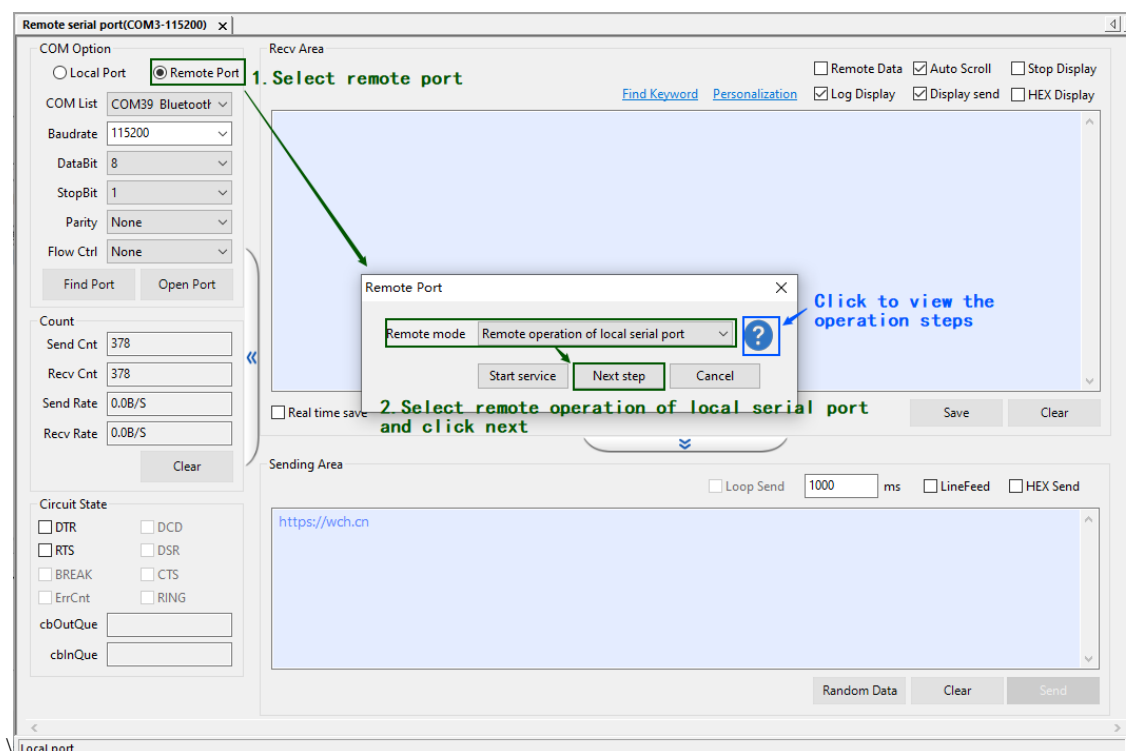
If you want to disconnect, click "Local Port"

## 4.5.2 Remote operation of local serial port

Operation steps:

① Select "Remote Port".

② Select "Remote operation of local serial port" and click "Next step" button.

③ Copy the local ID to the remote operator (if you need to use a password to access the local, check and enter the password. Note: the password length range is limited to 1-6 characters)
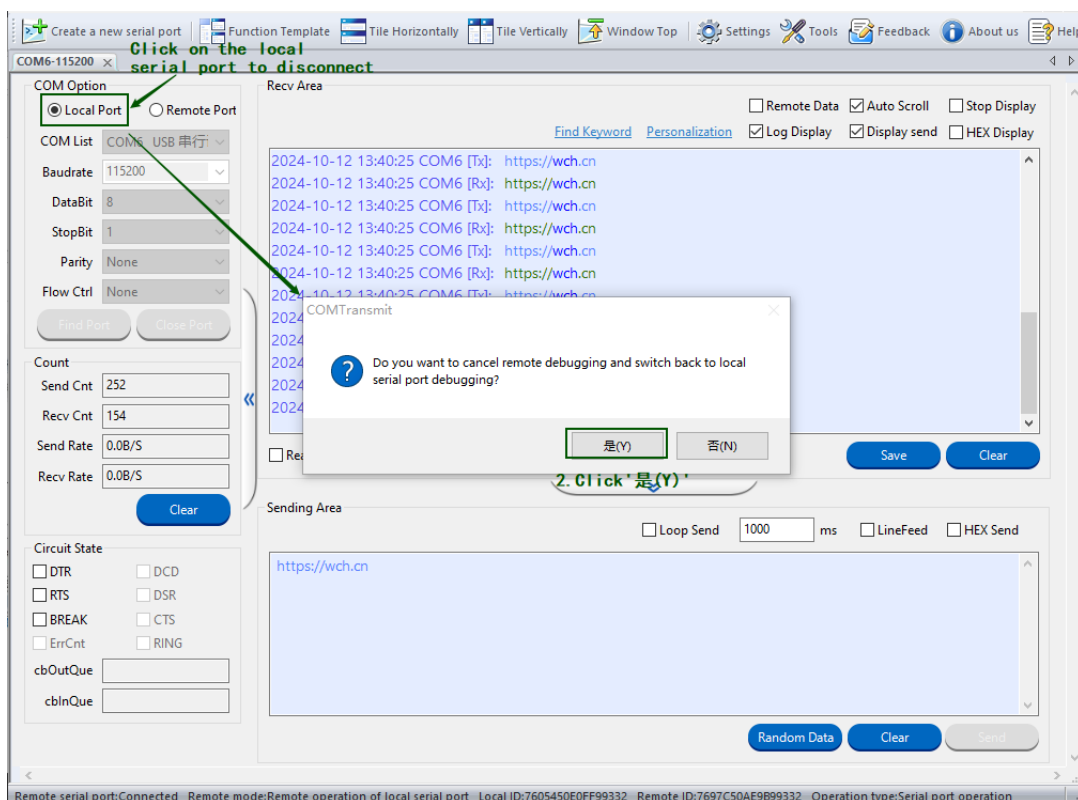
④ Click "Complete".
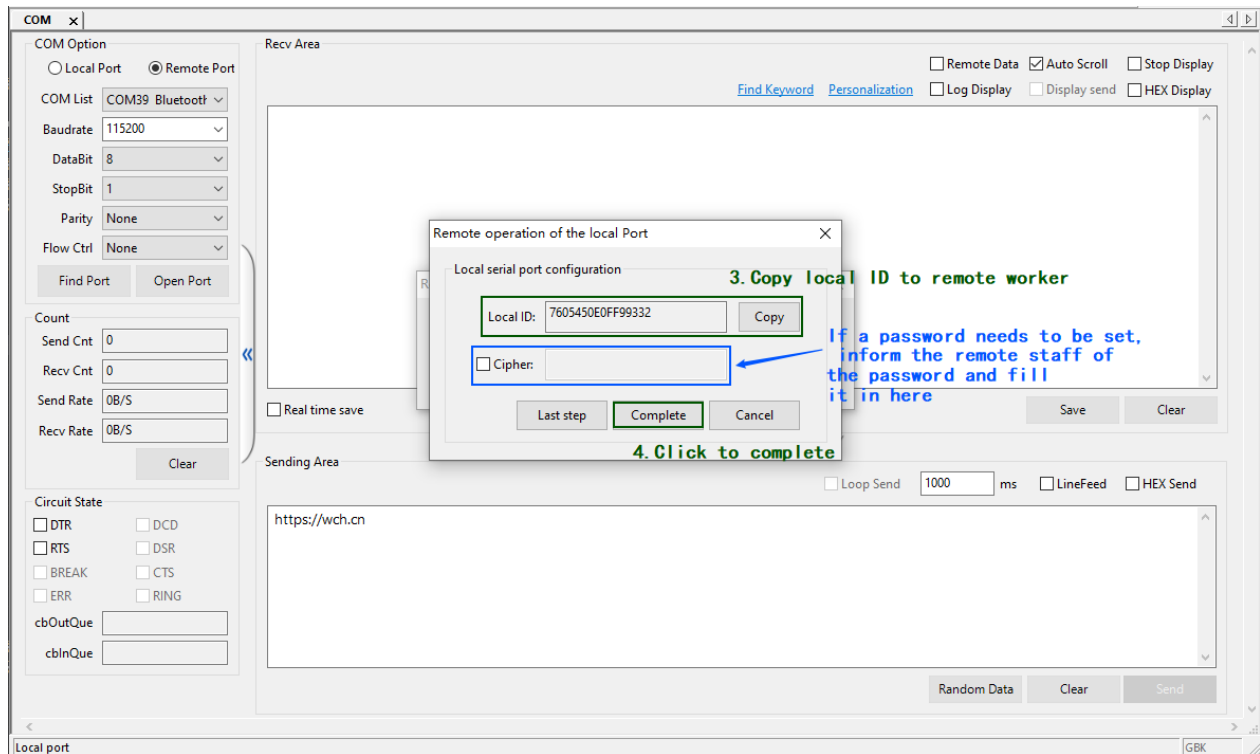
⑤ Click "OK" and wait for the remote connection. After the remote connection is initiated, the local will receive the following pop-up window.
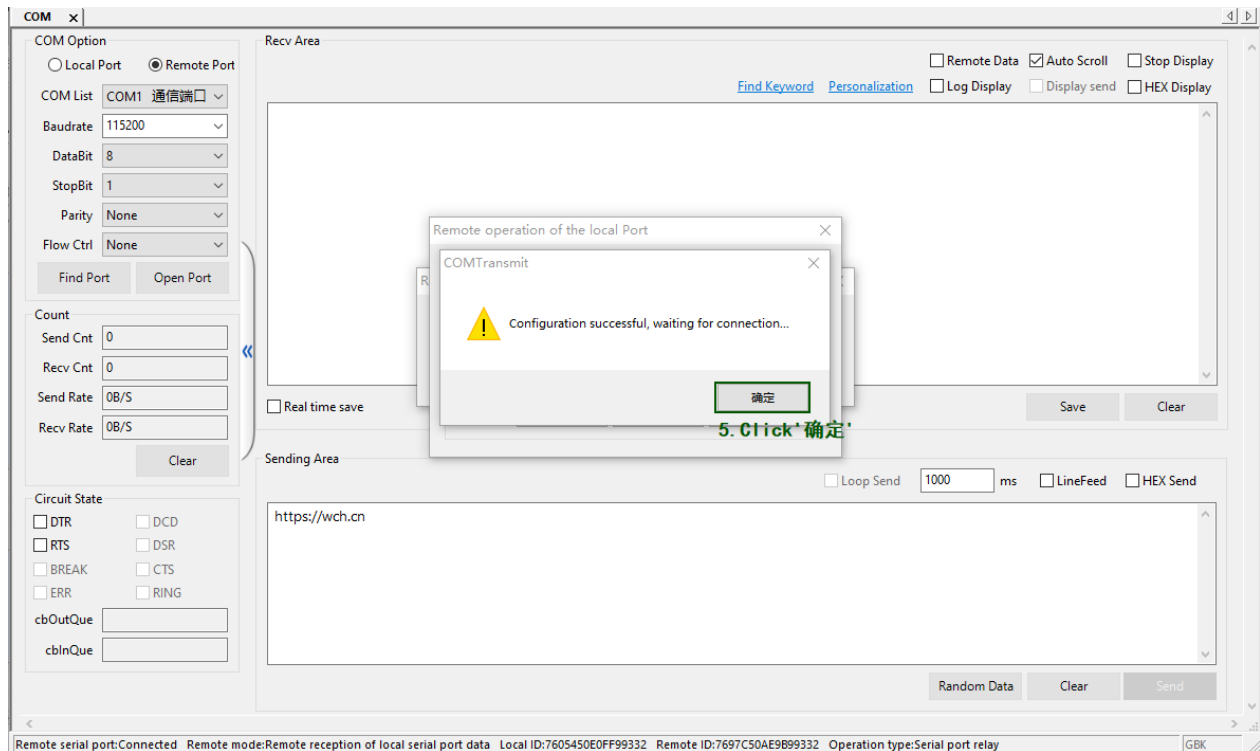
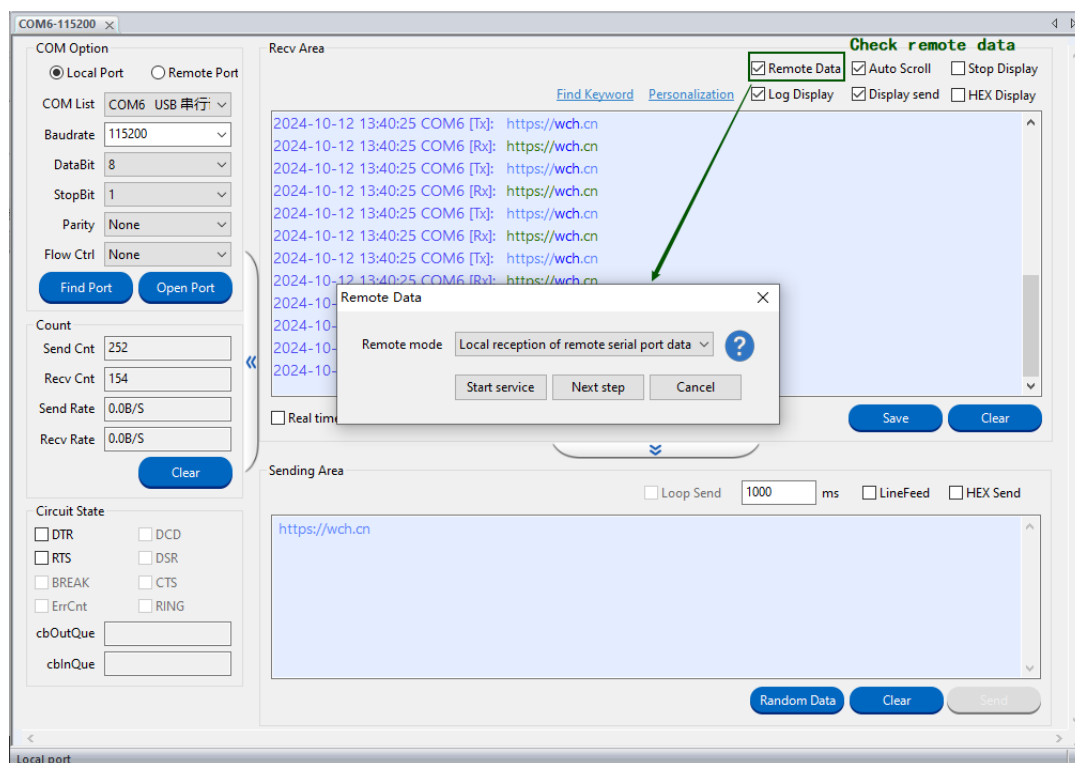⑥ Click "Yes" to complete the connection. After successful connection, the interface is as follows.
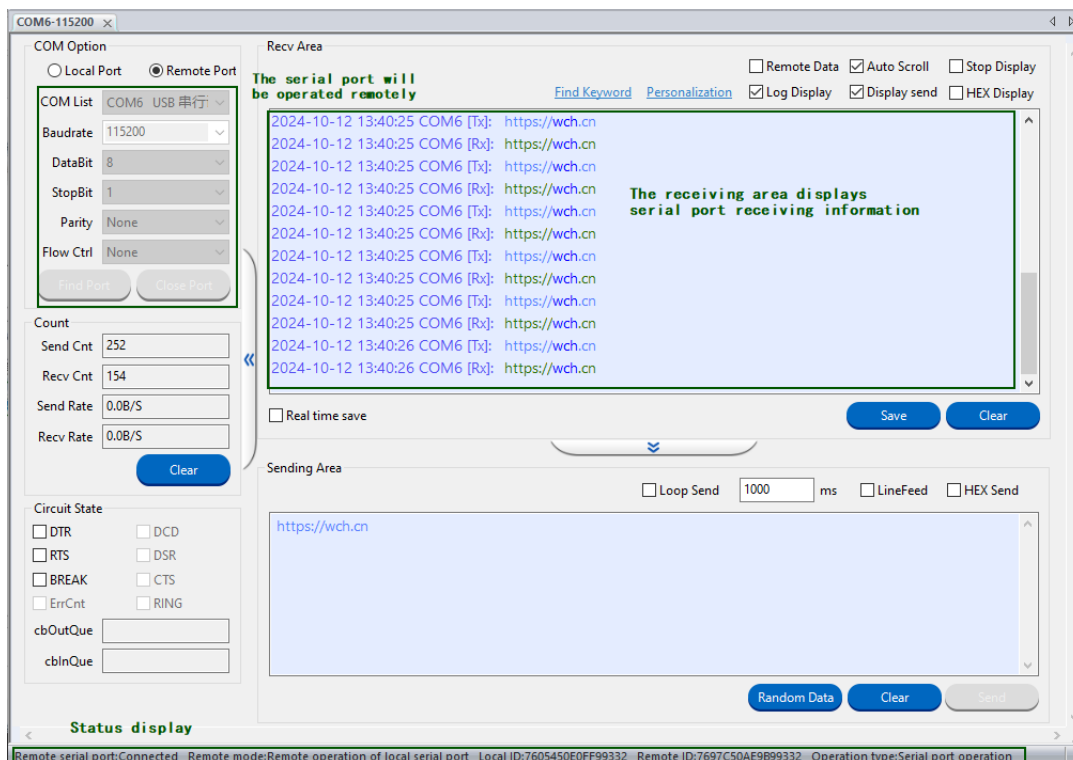
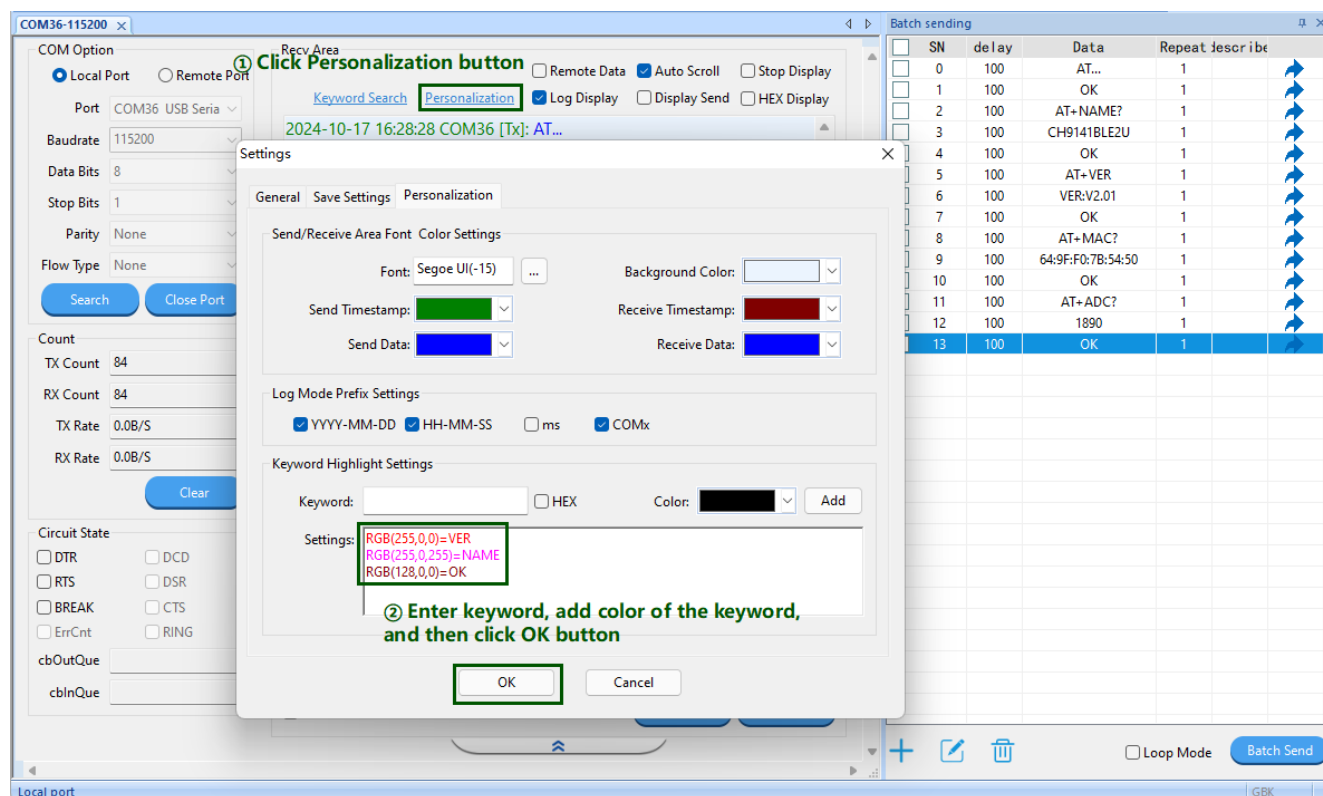If you want to disconnect, click "Local Port"
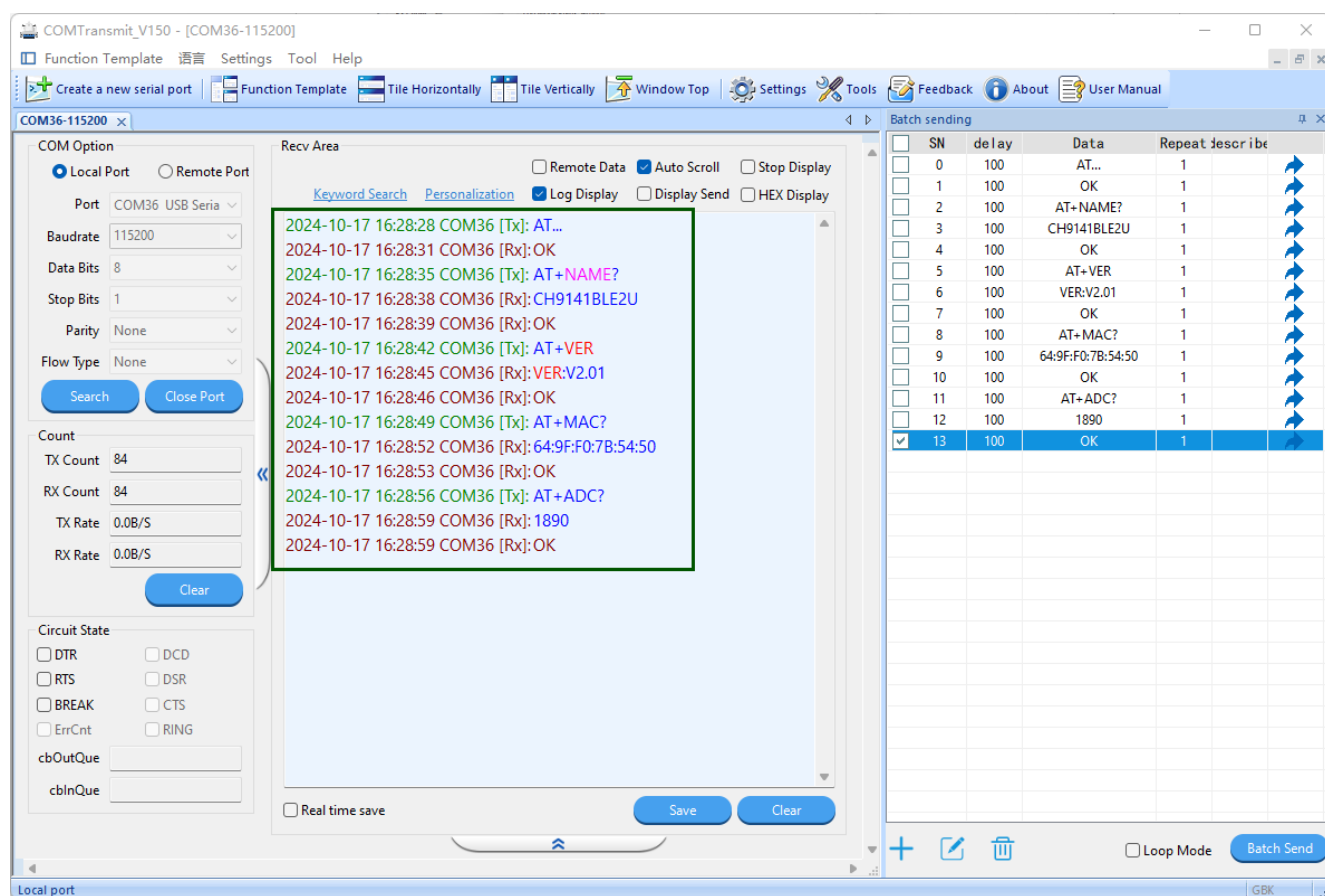
4.5.3 Remote port relay

If you only need to receive remote data rather than to operate the remote serial port, check "Remote Data" for connection. The connection step refer to 4.5.1.

4.6 Personalization

After clicking the "OK" button, the interface is displayed as follows:

4.7 Keyword Search