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Equotip 550

(including Leeb U)

Third-Party Peripheral Device Integration Guide

- Wireless connectivity

- QR/Bar code scanners

Document Information

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Content

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The manufacturer will be grateful at any time for suggestions, proposals for improvement and references to errors.

1 Introduction

The Equotip 550 can communicate with external peripheral devices such as certain WIFI bridges and QR/Barcode scanners. It also can be fully automated and communicate with PLC controllers for example to provide 100% automated production inspection.

The use of third party low-cost peripheral devices enables effortless and low-cost implementation of the Equotip 550 into the factory environment, thus expanding functionality, speeding up measurement to result procedure and easily integrating the device with the common office packages.

1.1 Wireless data streaming and connection via third party WIFI bridge/ client

Wireless data transfer from Equotip 550 to PC can be granted via WIFI bridge/Bluetooth Bridges, upon connecting it to Equotip 550 via external ports. This document focuses on the example of a WIFI Bridge (Router in the client mode) based on TP-link AC750 travel router, as the configuration example. The below schematics display the way the data is being transferred.

External power supply

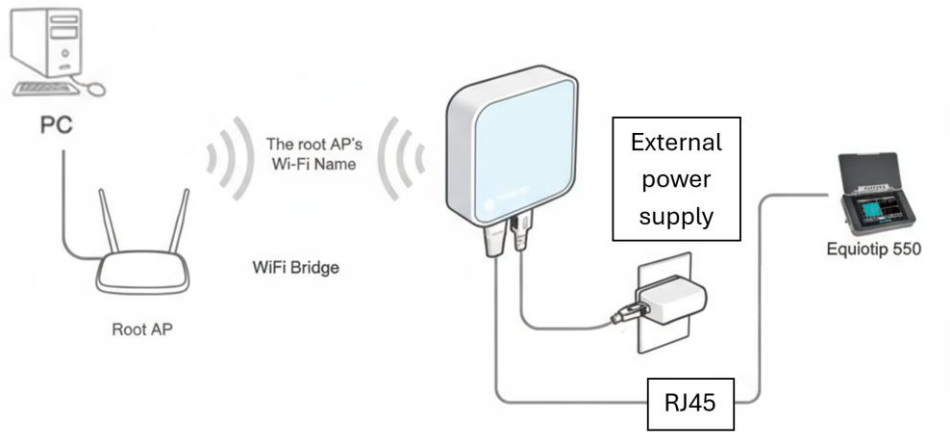

Fig.1. Schematics representing connection scheme and power supply of the WIFI bridge with power supply from AC power adapter.

Internal power supply from Equotip 550

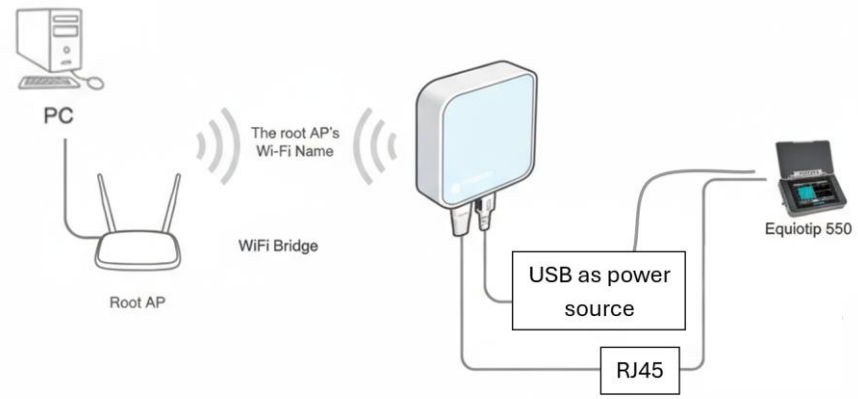

Fig.2. Schematics representing connection scheme and power supply of the WIFI bridge with power supply from Equotip 550.

IMPORTANT!: Please note that WIFI bridge (router in the client mode) must be compatible with the operating wireless network standard (e.g 802.11ac, 802.11n, etc.).

IMPORTANT!: The Equotip 550 can serve as a power source for the WIFI Bridge over the USB-A port, provided the current consumption is up to 0.5 A

1.2 Connection establishment

The WIFI bridge must be compatible and configured as a wireless, e.g. if the Wireless network operates as dual band ac, the client/bridge must be also compatible with this standard. Prior to connecting the bridge must be configured by the network administrator / responsible technician and connected to the network. For detailed bridge configuration instructions please refer to the user's manual of the selected device.

The bridge configuration must be compatible with Equotip 550 configuration. By default, the Equotip 550 operates in the DHCP mode, whereby it receives a free IP address by the DHCP server. The Equotip 550 can also operate in the static IP mode. Should this feature be selected, the correct adjustment of the settings of the WIFI bridge, prior to connection is required.

Once the bridge is connected to the wireless network, please identify the received IP address. Go to Home → System → Info.

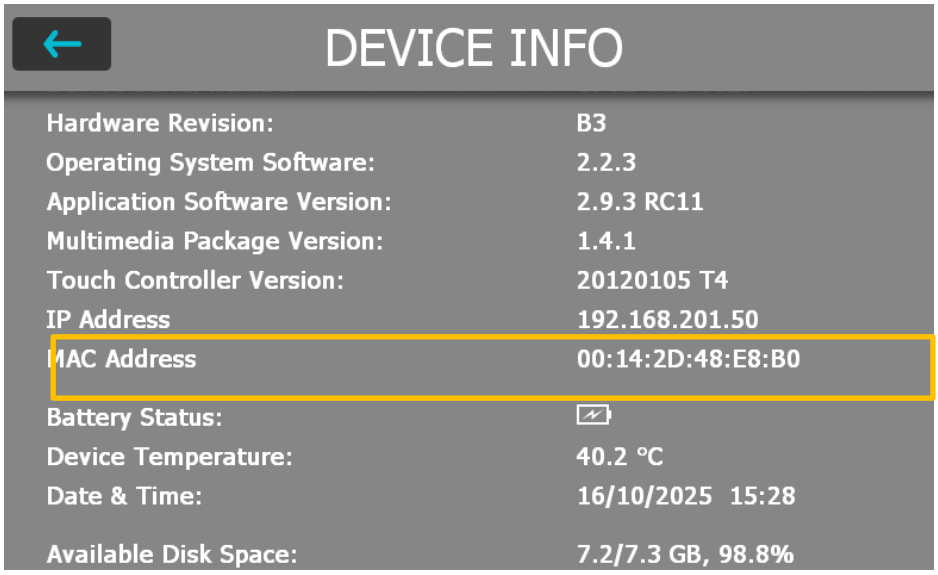

Fig.3. Screenshot of the device info.

Using the IP address from the Equotip 550 screen, connect with PC software (or PLC) through the selected address.

PC Software available for Equotip 550:

- EquotipLink (Data management software)
- pqUpgrade (Software upgrade firmware)
- Automation package

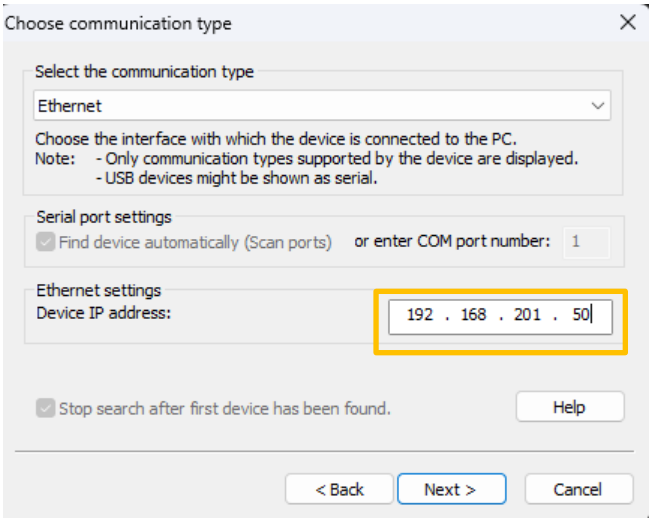

Fig.4. Screenshot of the connection selection window of DemoRemote application or Equotip Link download connection.

Note: in DHCP mode the device may receive a dynamic IP address each time, which must be typed in the PC.

Note: Should the Equotip 550 show 127.0.0.1 IP address, this indicates either lack of available IP addresses within the network, or invalid static IP address (already in use or reserved).

2 QR and barcode scanning through external scanners

2.1 Introduction

The Equotip 550 can utilise external barcode / QR code scanners of test pieces Instead of entering filenames or comments manually, there is also the possibility to scan in barcodes and use their content to enrich data files.

2.1.1 How to

Simply connect any barcode scanner with HMI interface to the USB-Host connector. The scanner will be active in the measurement mode. Barcode scanner can also work remotely with USB docking station, which is connected to USB-Hot connector.

2.1.2 Quick sample naming

Having the scanner connected, go to measurement settings and select the pencil symbol, indicating the sample name / filename change.

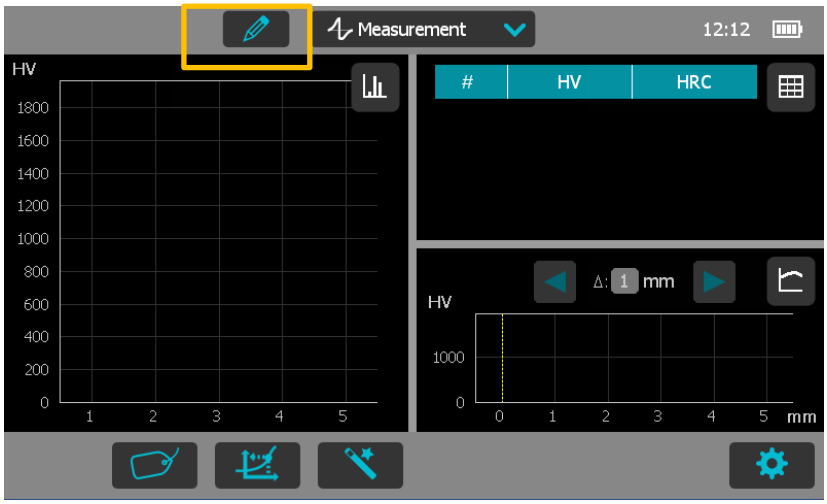

Fig.5. Screenshot of the measurement window of Equotip 550.

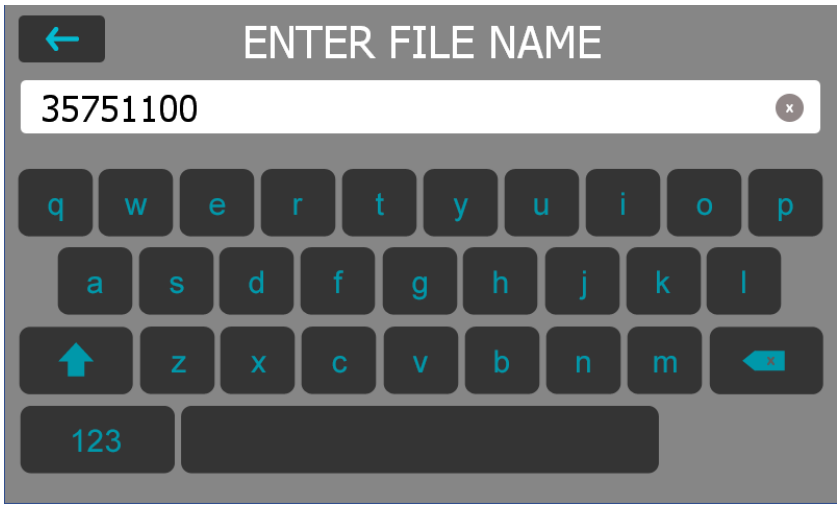

Fig.6. Screenshot of filename data field from the measurement window.

Scan the QR code or bar code of the sample (in this example the barcode with 3515100 value has been scanned). The name will be automatically filled.

2.1.3 Batch – sample / naming combinations

The scanned name can be combined out of several sources. Simply scan first QR code e.g. combining the batch number, and additional QR code e.g. combining the operator's or shift ID to implement all in one naming. The name will be filled with values of each scan respectively.

In the below example the same barcode with value 35751100 has been scanned twice, which resulted in 3575110035751100 sample name. To quickly correct the name simply press the "X" symbol on the right-hand side of the name field to remove the entire name and rescan the barcode /QR code again.

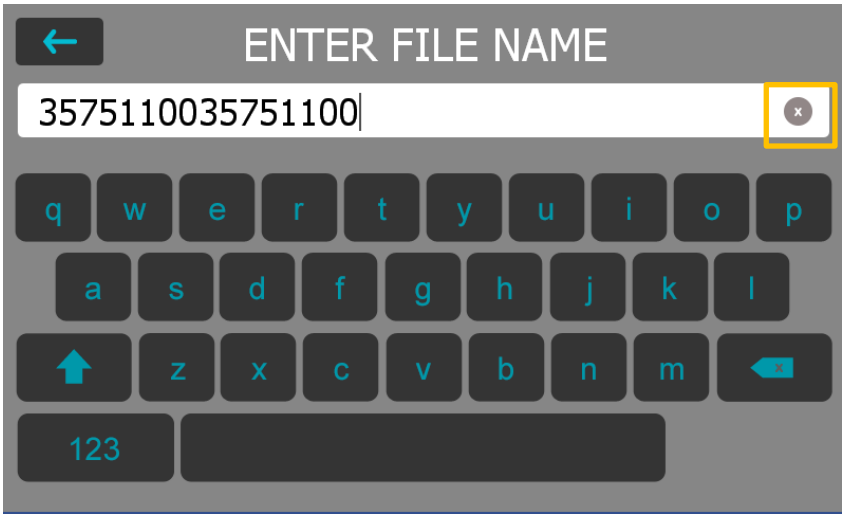

Fig.7. Screenshot of filename data field from the measurement window.

2.1.4 Other fields

2.1.4.1 Test block serial number

During the verification setup it is required to provide the serial number of the test block for traceability. This can be quickly done in exact same way as sample naming, by scanning the label of the package of the test block as shown below.

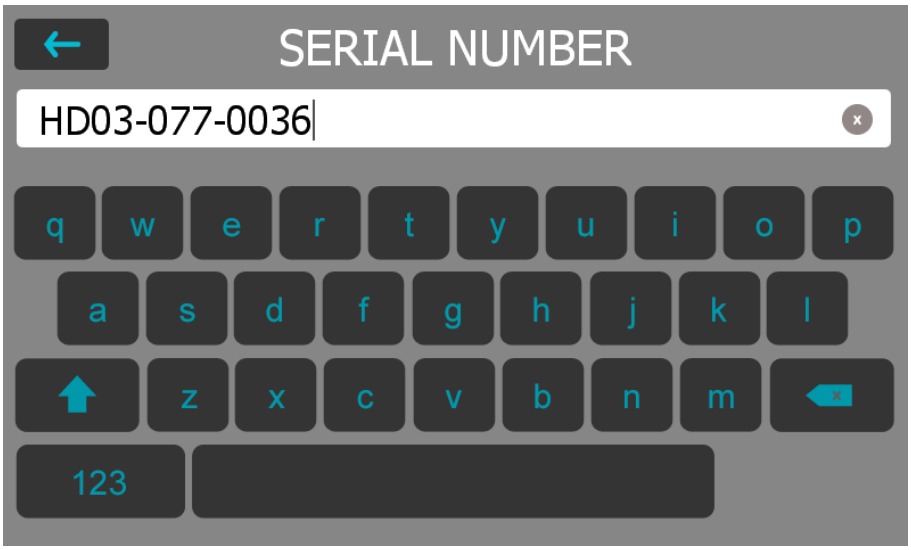

Fig.8. Screenshot of test block serial number field. Value inserted after scanning the test block barcode.

2.1.4.2 Additional information in sample ID field

Adding additional information to the test protocol through the ID field is extremely easy with the scanner. Fields such as Location, Company, Material, Sample ID etc. can be filled in within a second after touching the desired field and scanning the corresponding code

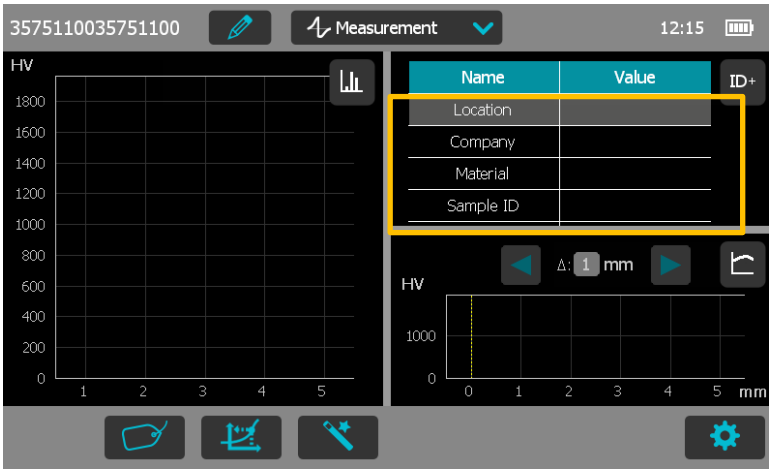

Fig.9. Screenshot of measurement window with ID section, where user can provide additional information of the specimens.

In the below example sample ID has been filled with a single scan of the barcode 35751100

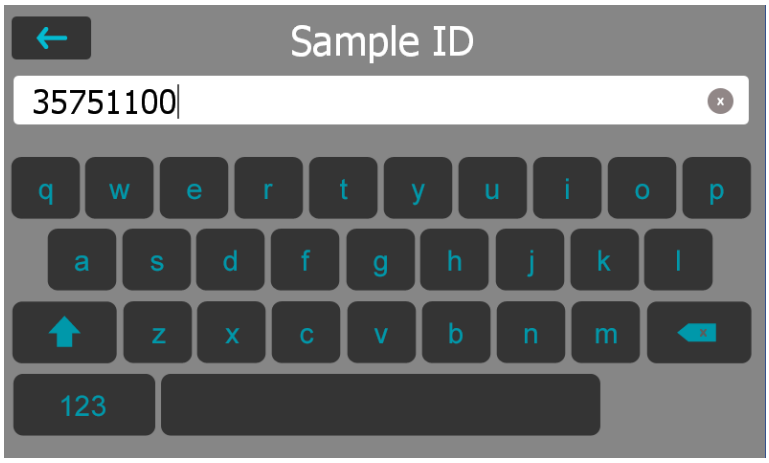

Fig.10. Screenshot of measurement window Sample ID. Value inserted after scanning the barcode.

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