

# United Quantum Measurement System User Guide

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**Notation:** `<This-is-a-variable>` can be replaced.

\* **Warning !**: Do **NOT** rename any file you will SCP to server.

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## Page 1 Measurement Flow

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### – First at Local

1. Generate the `ExpParasSurvey.toml` according to the exp you want.
  - Use `UQMS\\Executions\\SurveyAssign.py`
  - Generate to `C:\\Users\\<username>\\`
2. Fill in the Survey.toml and prepare the HardwareConfig you need.
  1. **QM:** `<arbitrary-name>_config.pkl` and `<arbitrary-name>_spec.pkl`
  2. **Qblox:** `QD_file`
3. Packaging your configs with a folder named `'ExpConfigs'`.
4. SCP `ExpConfigs` and `ExpParasSurvey.toml` to server **Destination**

### – Second by Remote

1. SSH to the server and `cd MeasExecutor`
2. Start the env `conda activate UQMS`
3. Run the measurement with `python MEAS_exe.py`

### – Final by FileZilla

1. Connect to FileZill server check the raw data and picture.

## Page 2 Connection tools

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### – SSH Connections

Connect: `ssh -p <port> <user-name>@<server-ip>`

Close: `exit`

### – SCP all items in a folder to **Destination**

```
scp -P <port> -r <folder-path>/* <user-name>@<server-ip>: "<Destination>"
```

- **<Destination>**: `C:\\Users\\<user-name>\\MeasConfigs\\`