SOYAL Software Series
V250514

SOYAL®
ACCESS & INDUSTRIAL CONTROL



Software Manual
AR-661UG Tools

System Requirements

- Operating System: Win7/ Win10, Windows Server 2012/2016/2018, hyper V
- Processor Server: Intel® Pentium® and above
- Installed Memory (RAM): min. 8GB
- Hard Disk: 80GB of free space
- Built-in 10/100M RJ-45 networking and USB transmission interface

SOYAL Website

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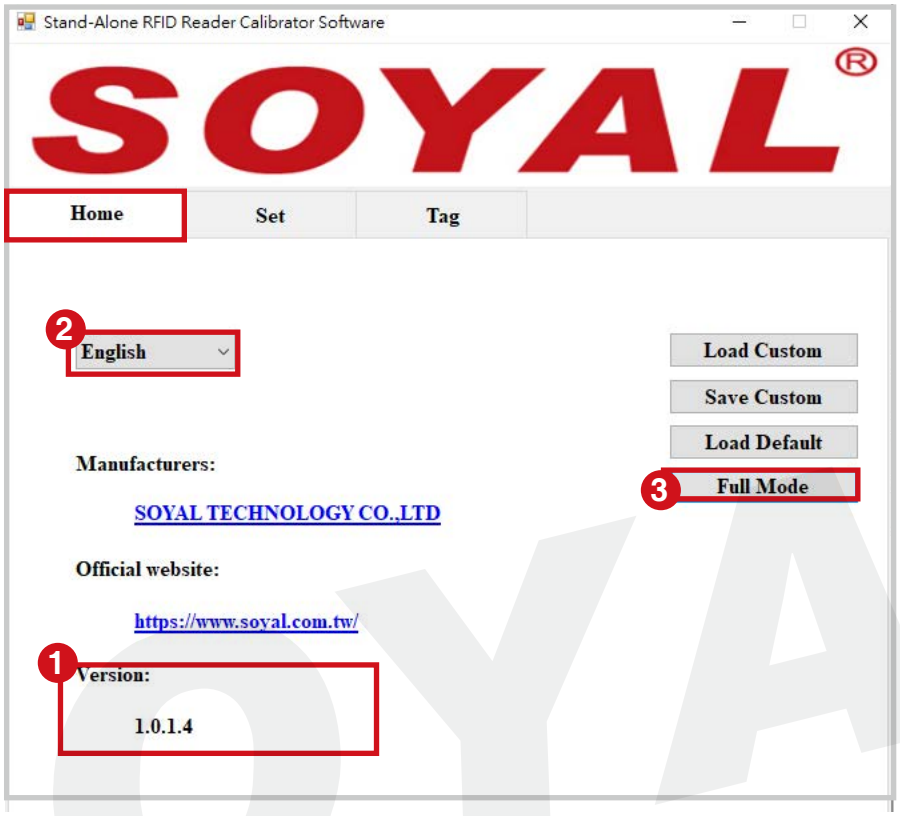
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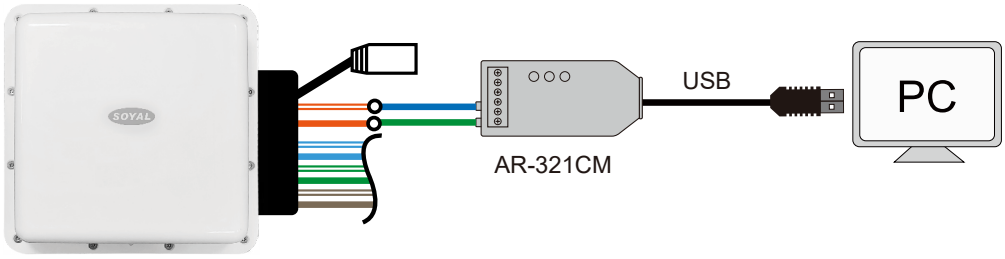
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1. Home

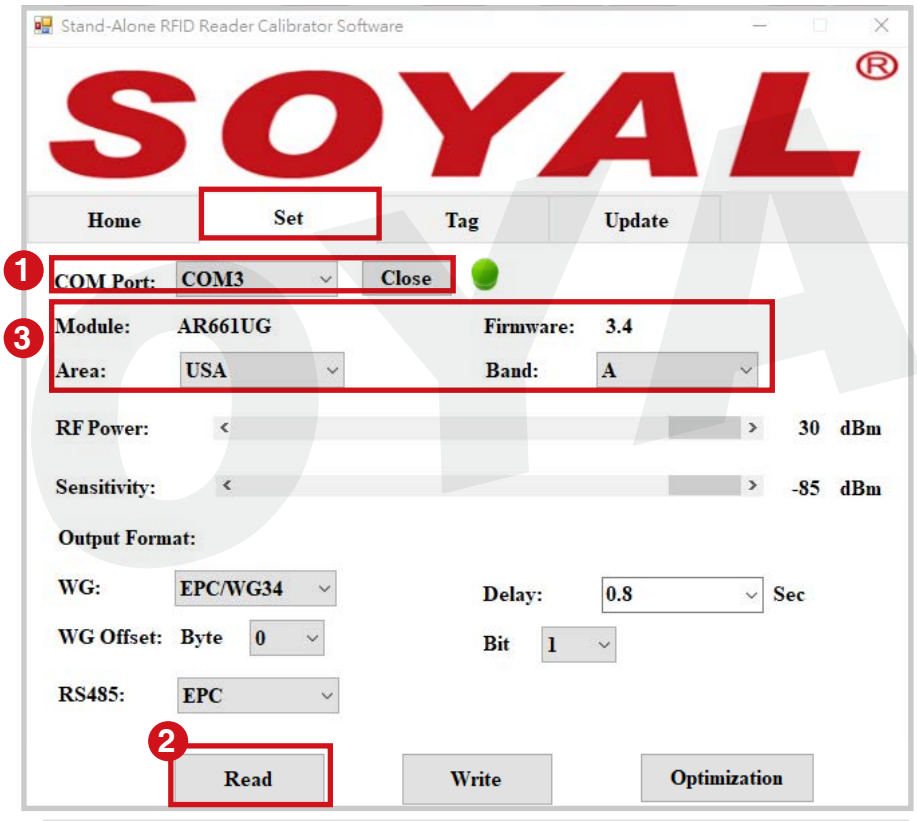


1. Displays software version information.
2. Language selection available: Traditional Chinese and English.
3. Click [Full Mode] to switch to [Simple Mode].
   - In Simple Mode, additional options for firmware updates and multi-country frequency selection are available.

2. Settings



After connecting the AR-661UG to a computer via a USB converter (Model: AR-321CM), you can adjust parameters using the tool software.



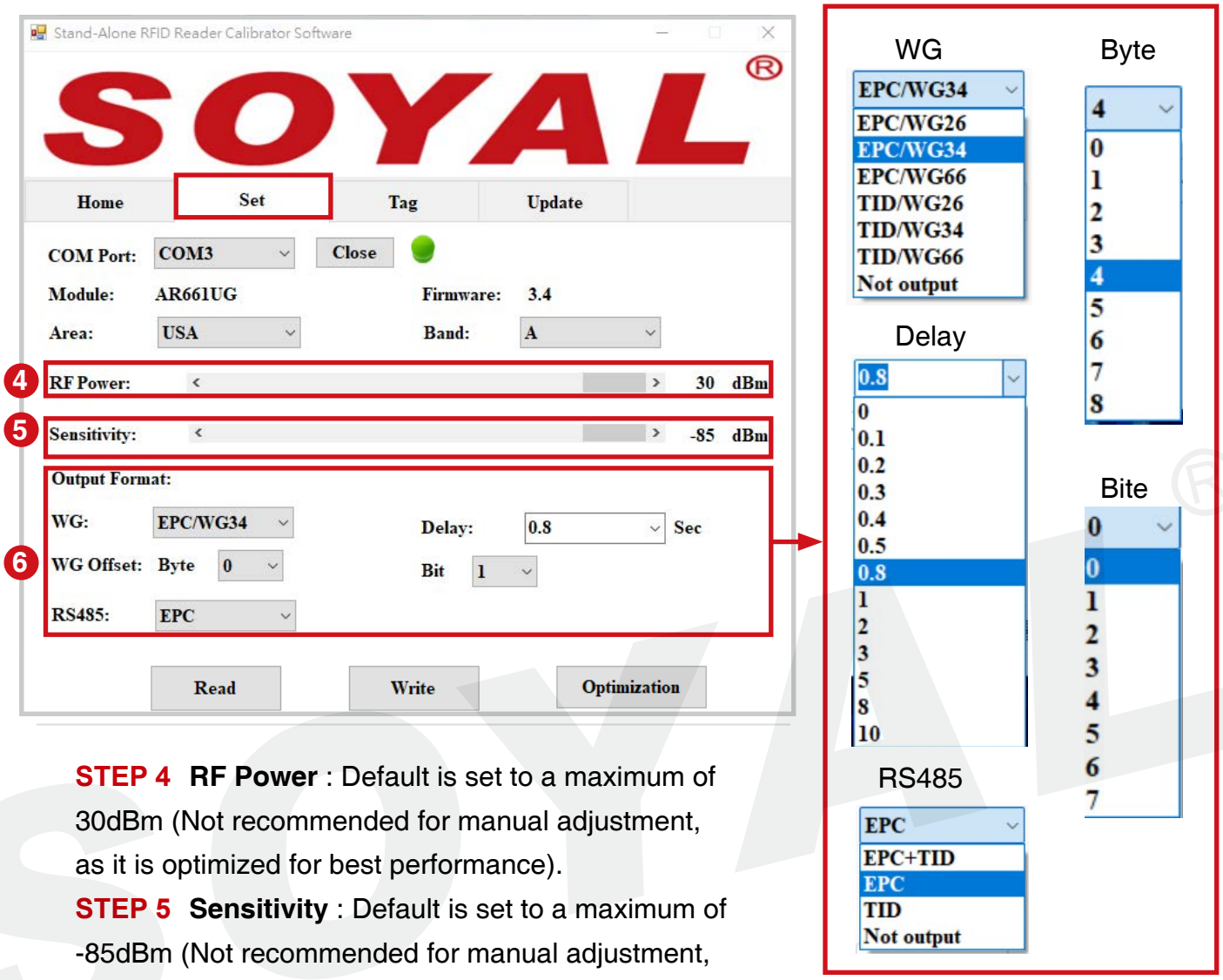
STEP 1 : Select the Com Port and click [Connect].

STEP 2 : Click [Read] to retrieve the current settings from the AR-661UG.

STEP 3 : Display module information:

- Model: AR-661UG
- Current firmware version
- Frequency bands (Displays different country and regional frequency groups based on hardware version, divided into Group A and Group B)

2. Settings



STEP 4 **RF Power** : Default is set to a maximum of 30dBm (Not recommended for manual adjustment, as it is optimized for best performance).

STEP 5 **Sensitivity** : Default is set to a maximum of -85dBm (Not recommended for manual adjustment, as it is optimized for best performance).

STEP 6 **Output Format**

6-1. Wiegand Interface : Can be adjusted as needed, default is EPC/WG34.

6-2. Delay Time

- Default is 0.8 seconds, adjustable between 0 and 10 seconds. ◦
- If a delay time of more than 10 seconds is required, manually enter a value between 10~65 seconds.

6-3. Wiegand Offset

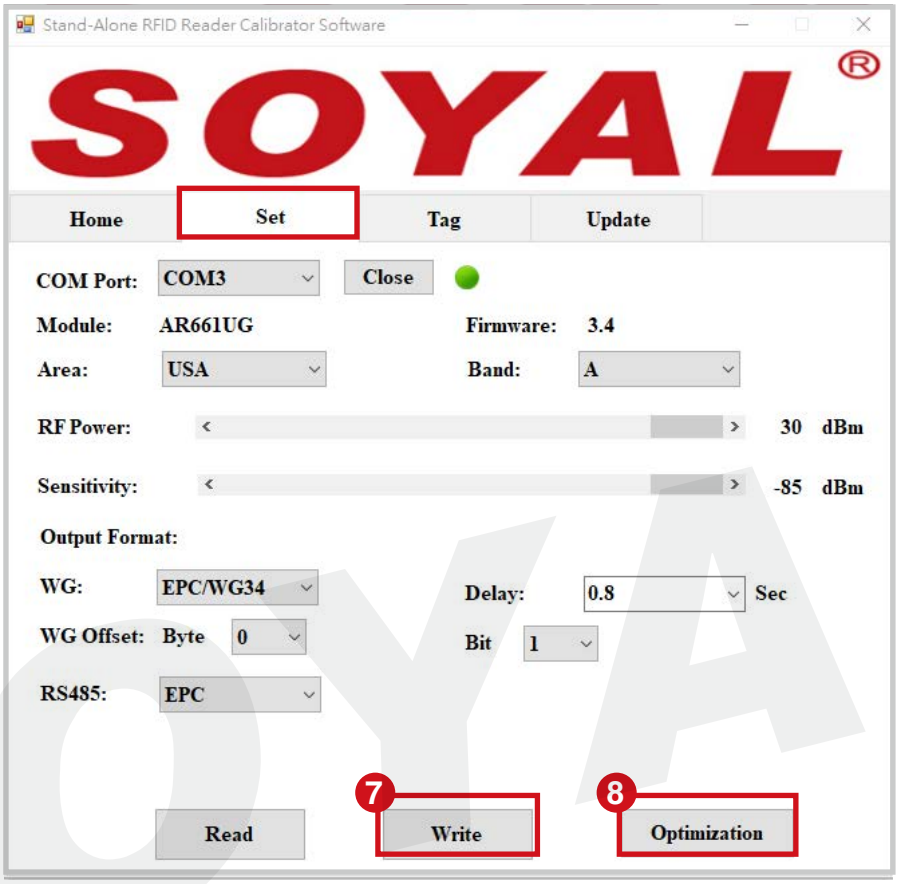
- Byte Range: 0-8
- Default: Domestic Byte 4, Export Byte 0.

6-4. Bit Offset

- Range: 0-7
- Default: Domestic Bit 0, Export Bit 1.

6-5. RS485 Format : Default is EPC, but can be adjusted to TID or EPC+TID.

2. Settings



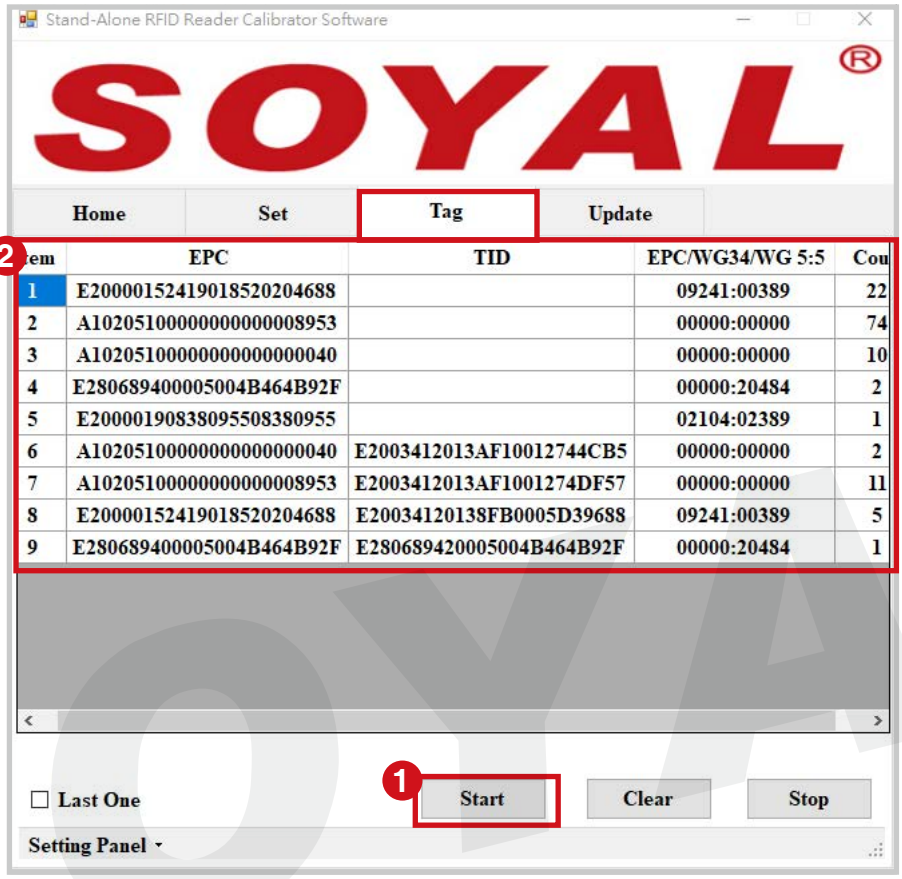
STEP 7 : Click [Write] Parameters to update settings to the AR-661UG.

STEP 8 : Environmental Parameter Optimization

- If the sensing distance or sensitivity at the installation site is not optimal, you can adjust the parameters accordingly.
- During optimization, ensure there are no obstructions within 10 meters in front of the AR-661UG.

2. Tags (Tag Reading)

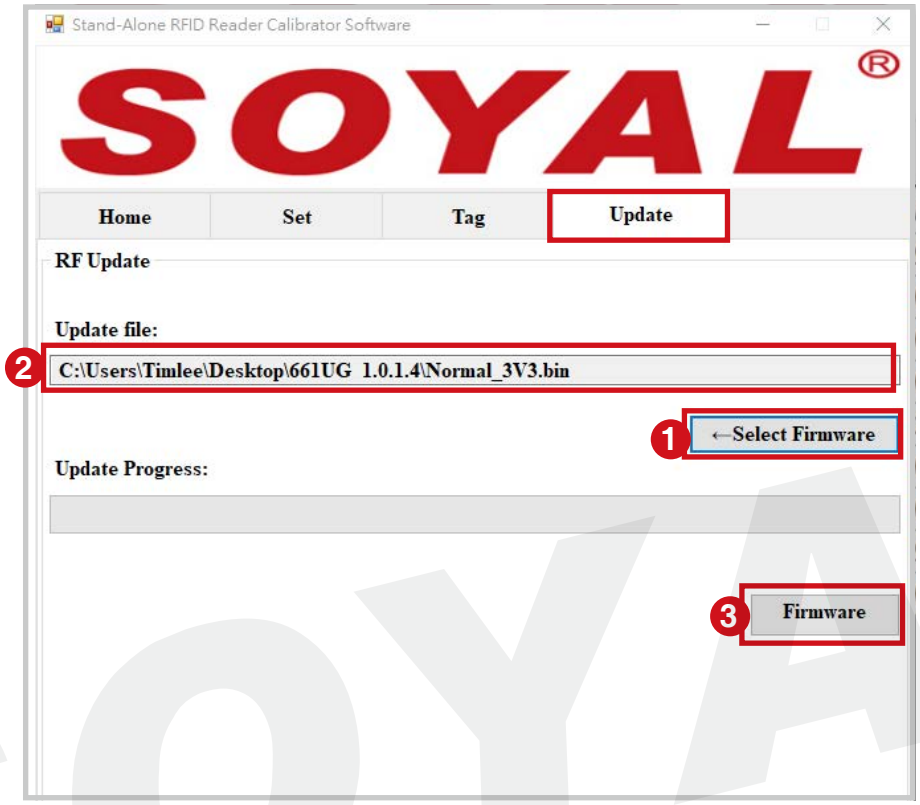
3. Tags (Tag Reading)



STEP 1 : Click [Start] .

STEP 2 : When the AR-661UG detects a tag, the corresponding tag number will appear in the list. The tag number format is displayed according to the RS485 Output Format settings in the Settings Page.

4. Firmware Update



STEP 1 : If a new firmware version is available, you can upgrade it on the Update Page.

STEP 2 : Select the firmware update file.

STEP 3 : Click the Update Firmware button to start the upgrade.

(※Note: The device must remain connected to the software during the firmware update process.)