User Manual

300037 Work Station

Revision 1-0-0-2

1. Installation

1.1 Install USB<->Serial Driver

Driver Name: CDM v2.10.00 WHQL Certified

To get it from the website: http://www.ftdichip.com/Drivers/D2XX.htm

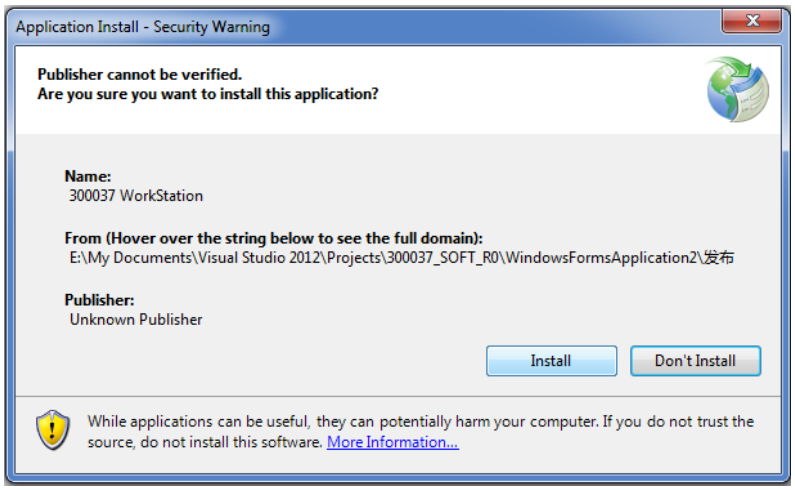
Or the setup folder: \Drivers

1.2 Install .Net Framework 4.0

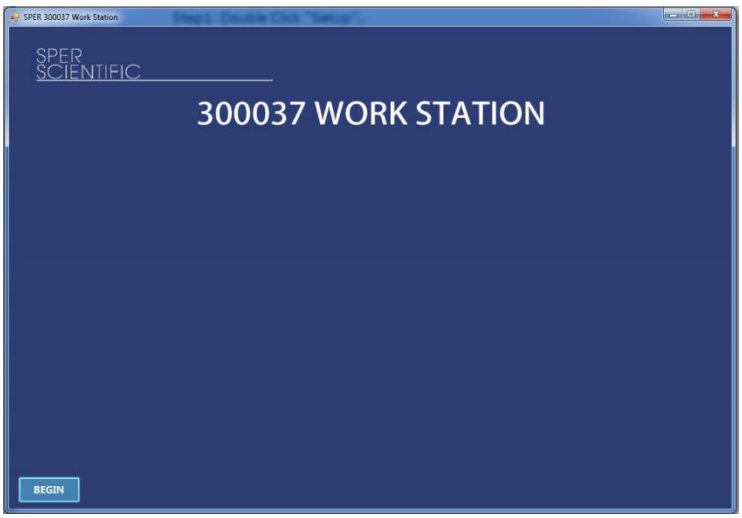
The 300037 WorkStation will automatically check the user PC. If .Net Framework 4.0 cannot be found, the installer will download it from the Microsoft website.

1.3 Install 300037 WorkStation

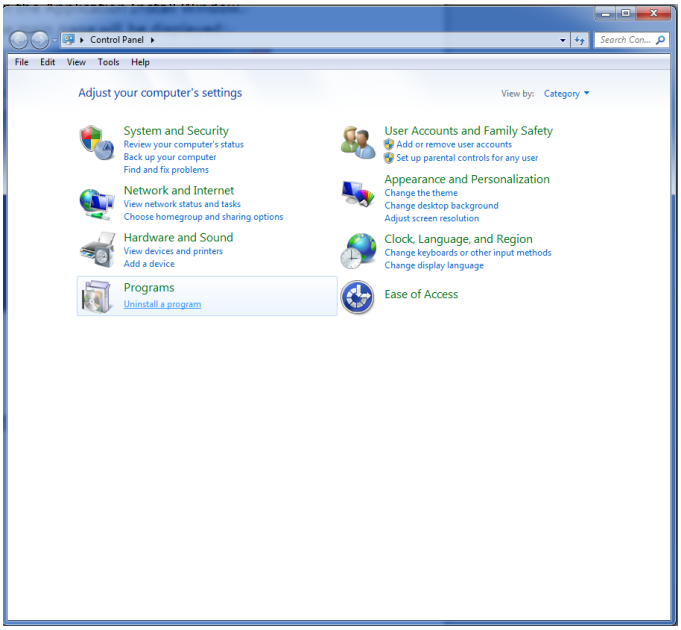
Step1: Double Click "Setup".



Step2: Click Install button In the Application Install pop-up window. After Installation, the main page will be displayed.



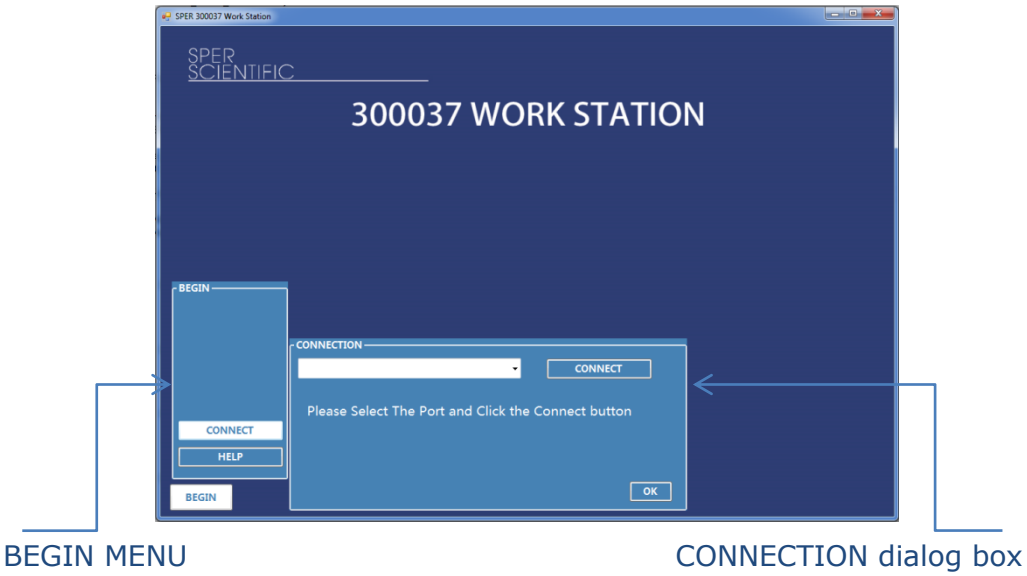
1.4 Uninstall the software



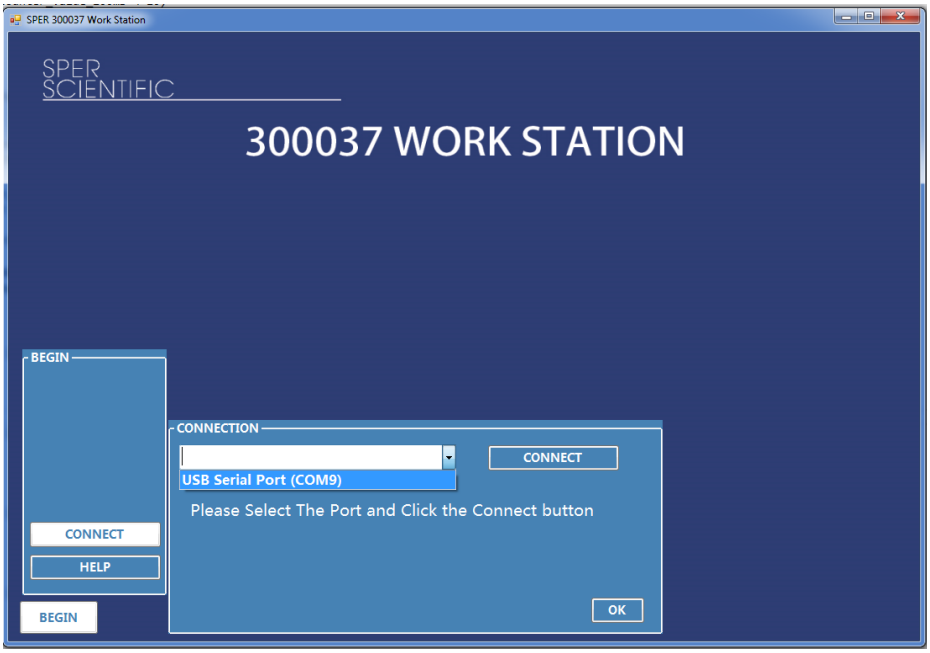
Click the “Uninstall a program” option in the Control Panel and select “300037 WorkStation” to remove it from user’s personal computer.

2. Launch

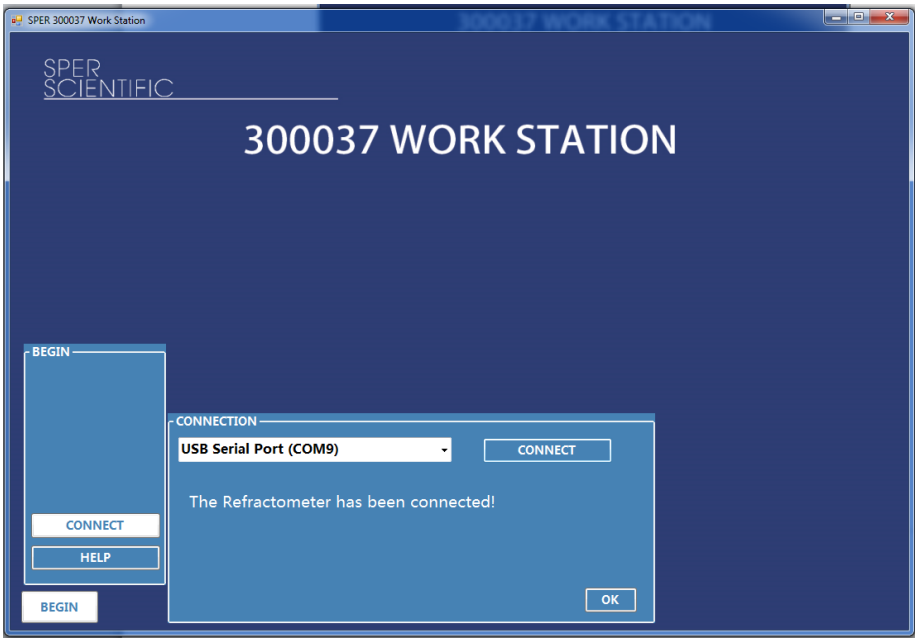
2.1 Connect to the 300037 refractometer



Click BEGIN button, the BEGIN MENU will show the CONNECT option, then click the CONNECT button, the CONNECTION dialog box appears.

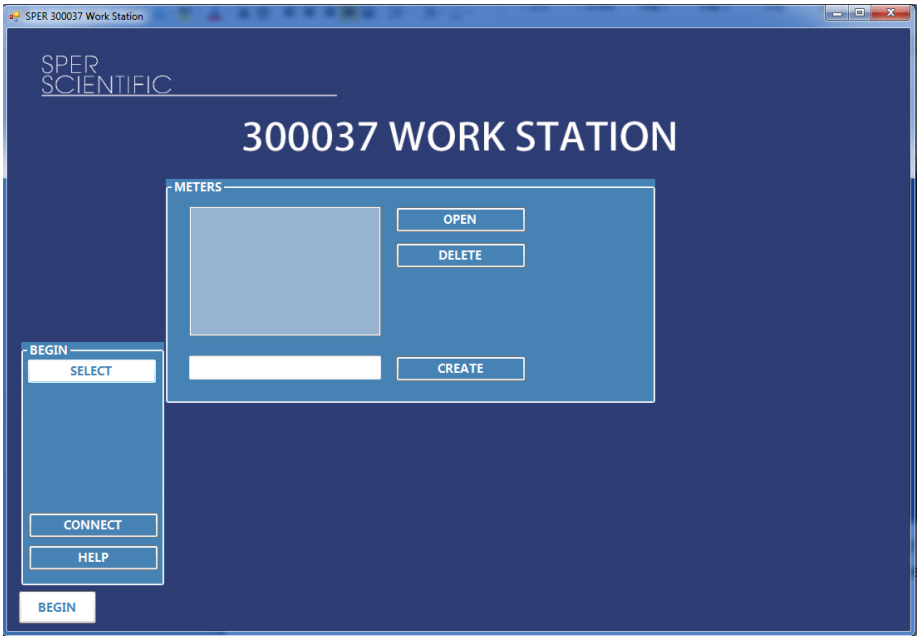


Please select the USB Serial Port which is connected to the refractometer and Click the CONNECT button in the CONNECTION dialog box.

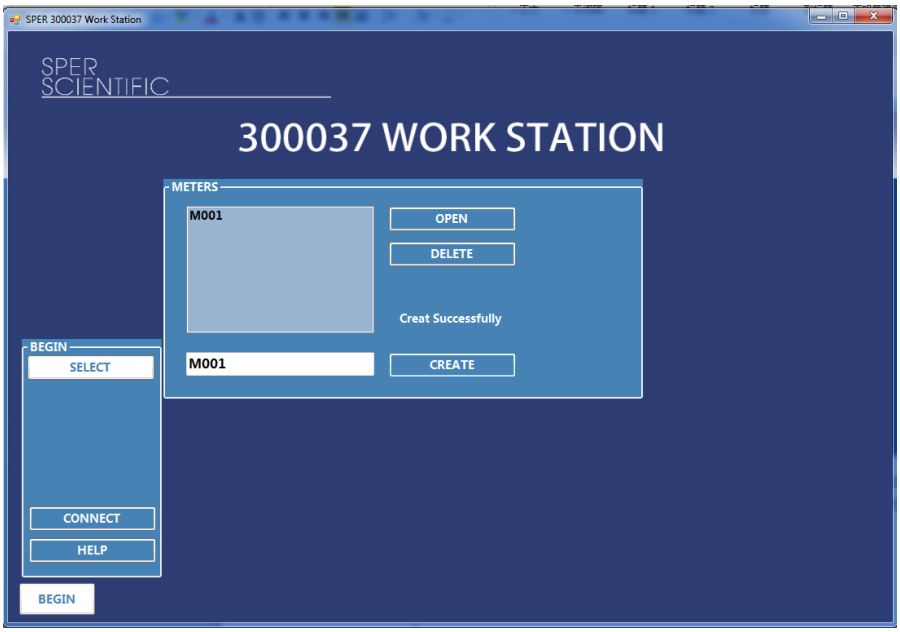


After the connection has been established, the dialog box will show the message: "The Refractometer has been connected!" Click the OK button to finish the CONNECT operation.

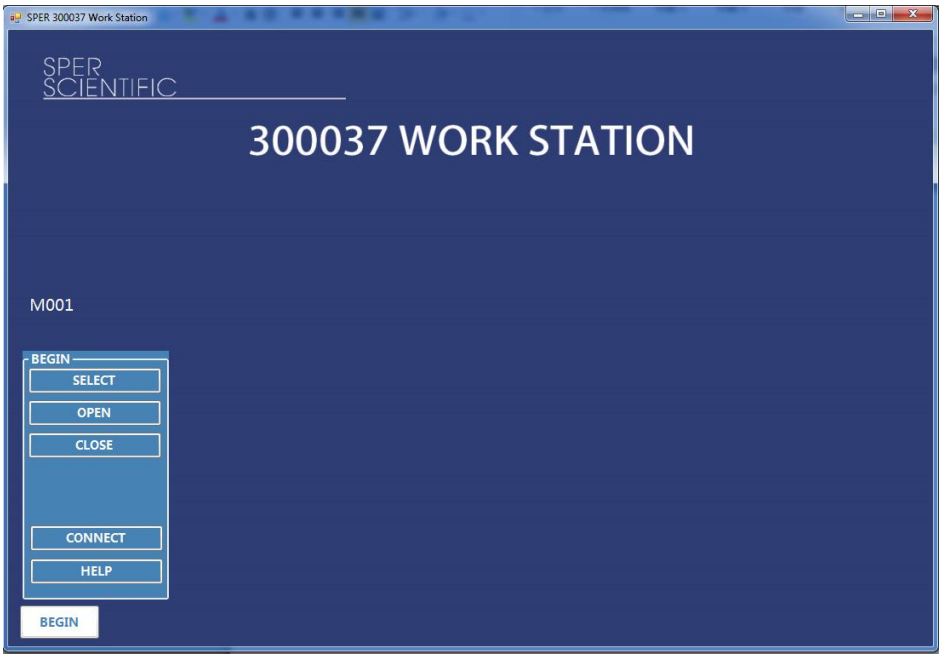
2.2 Create, Open, Delete METERs



If the Connection is OK, In the BEGIN menu, the SELECT option appears. The METERS dialog box allows the user to manage METERS.



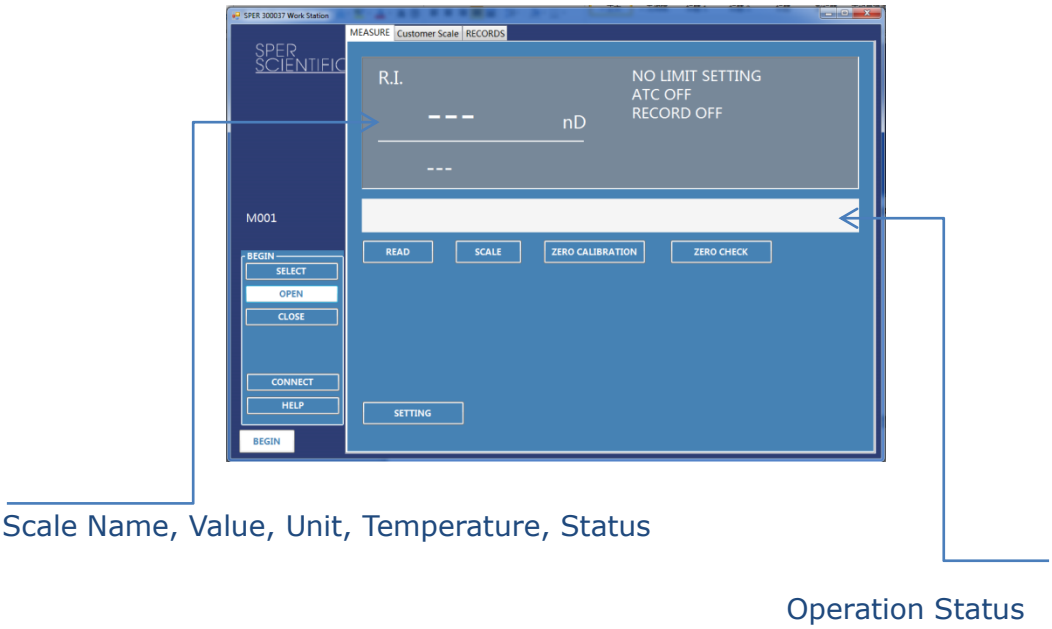
- Fill the Meter name in the blank field, and click the CREATE button, the new Meter will be created.
- Click and Select the Meter name in the table, clicking the DELETE button will delete the Meter.
- Click and Select the Meter name in the table, clicking the OPEN button will show the meter.



After successfully opening the meter, the OPEN and CLOSE option appears in the BEGIN menu.

Click the OPEN button to open the METER interface.

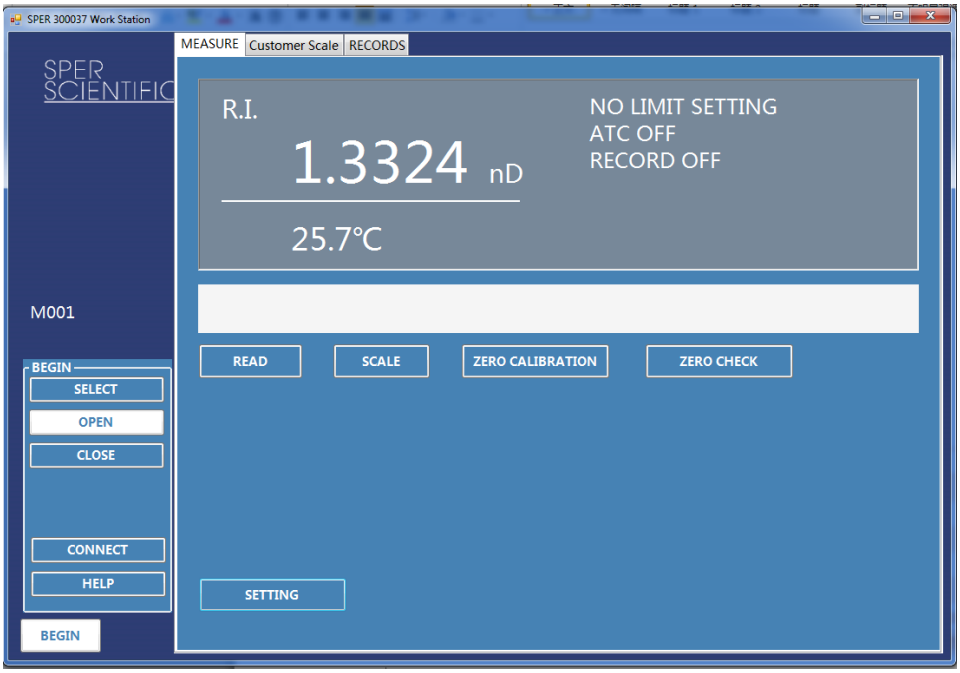
2.3 Measure



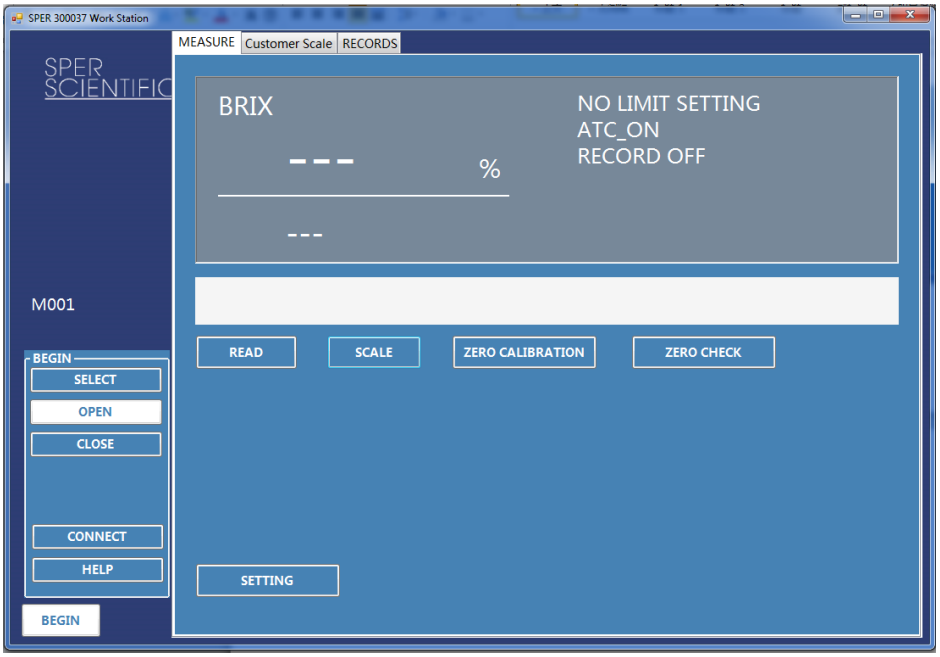
2.3.1 Button and Operation

BUTTON	FUNCTION
READ	Measure 1 Time
SCALE	Switch the scales
ZERO CALIBRATION	0 Calibration
ZERO CHECK	0 Check
SETTING + LIMIT	Set the High & Low Limit
SETTING + RECORD	Set the auto record on or off
SETTING + ATC	Turn on / off the ATC Function

2.3.2 READ

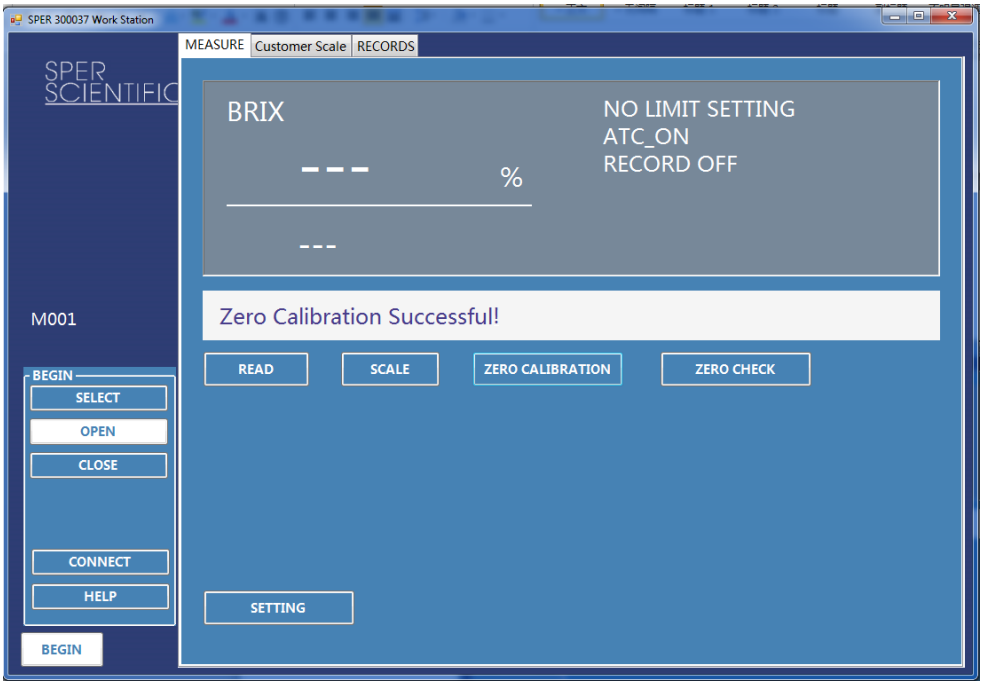


2.3.3 SCALE



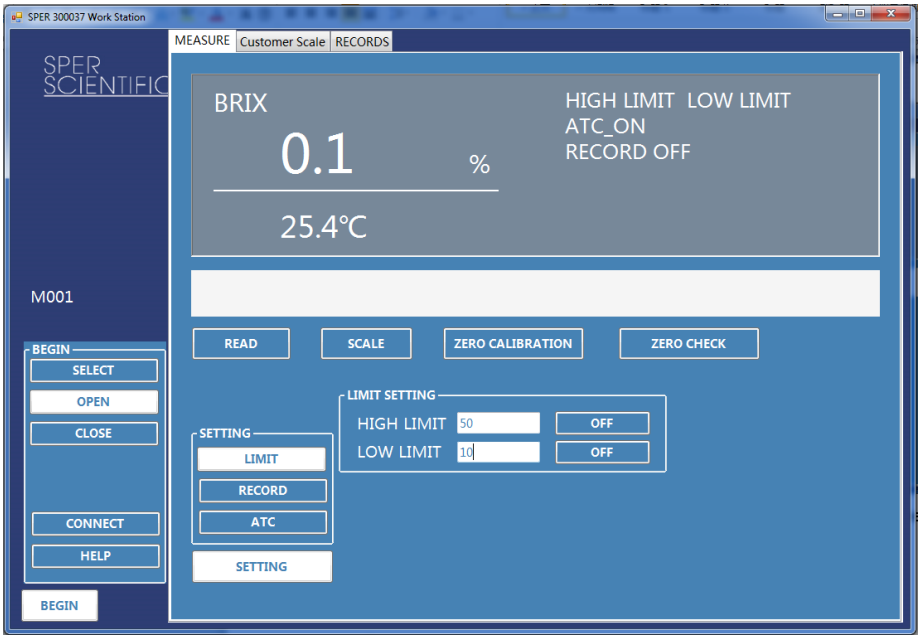
Click the SCALE button once to go to the next scale.

2.3.4 ZERO CALIBRATION



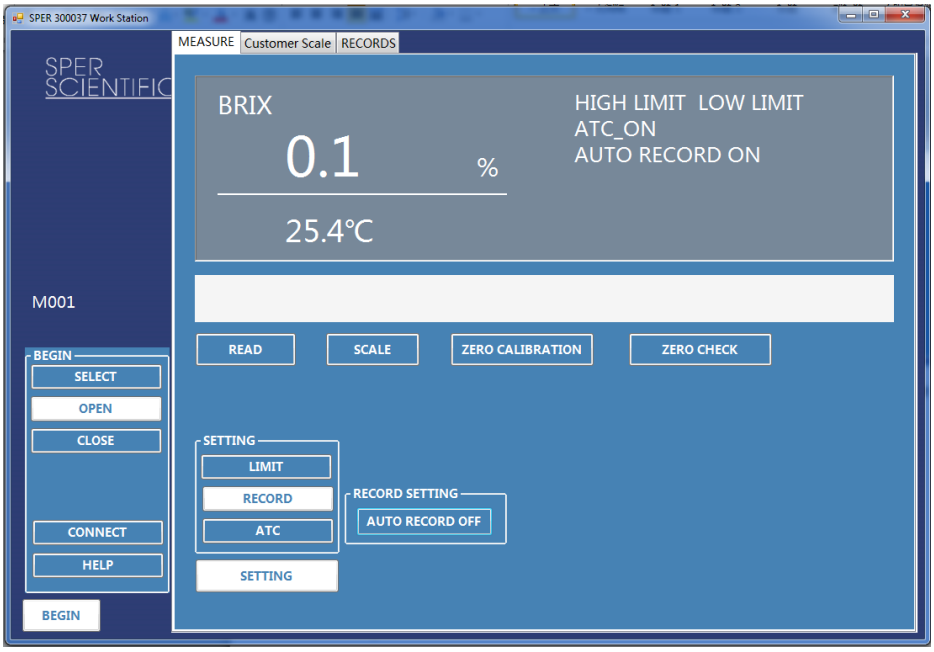
After a successful zero calibration, the status bar will display the message: "Zero Calibration Successful!"

2.3.5 SETTING + LIMIT



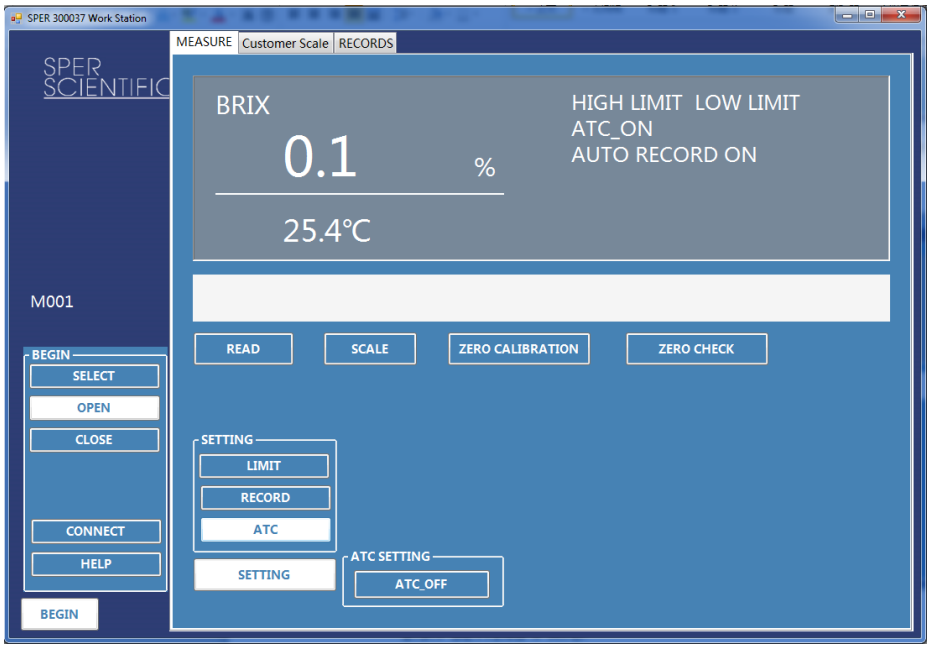
Input the HIGH LIMIT VALUE and LOW LIMIT VALUE and Click the ON button, The LIMIT ALARM Function will be active.

2.3.6 SETTING + RECORD

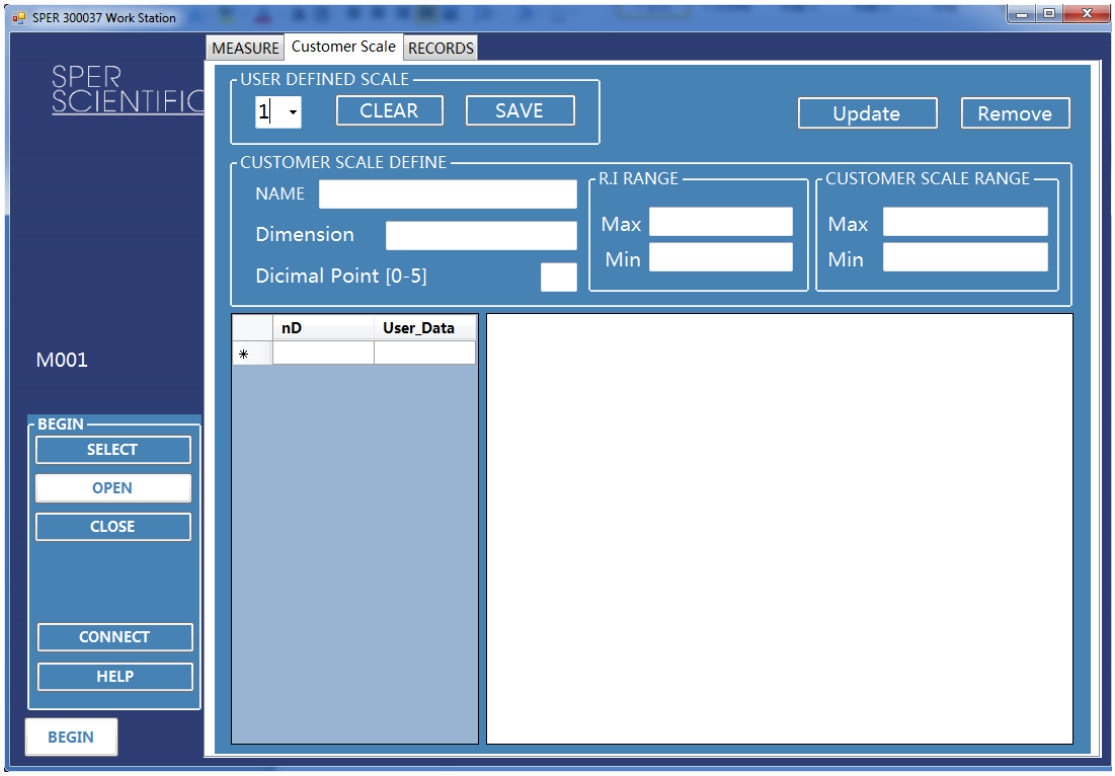


If AUTO RECORD ON is set, every reading will be recorded.

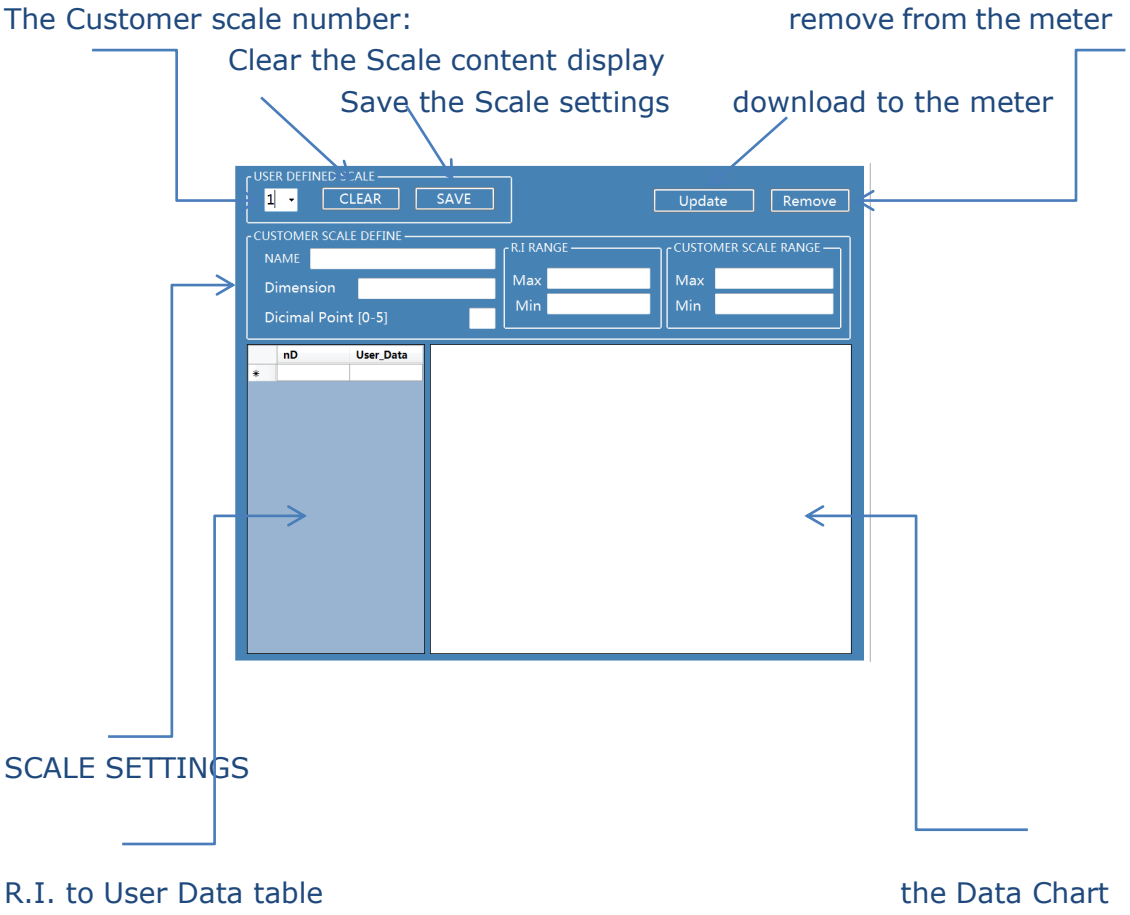
2.3.7 SETTING + ATC



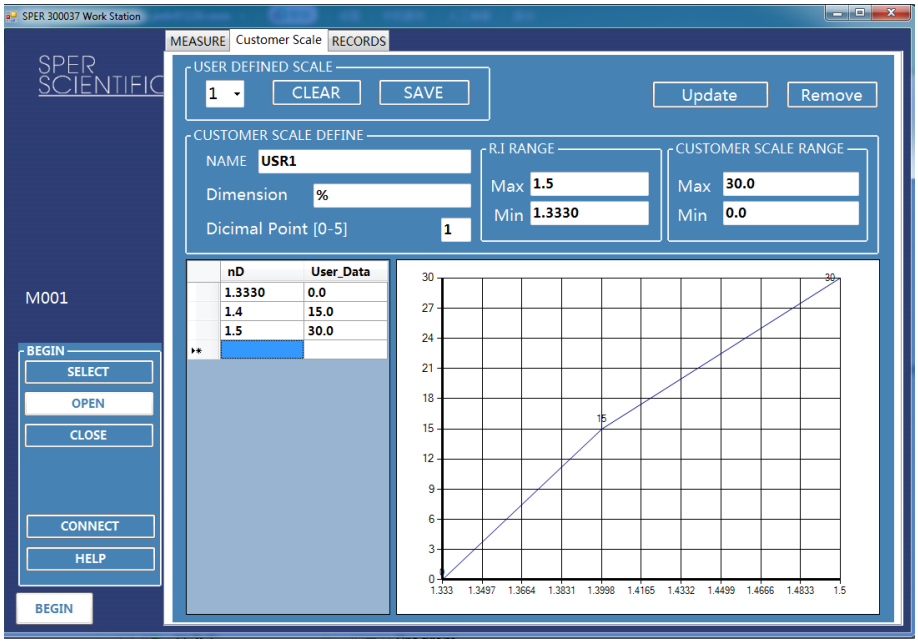
2.4 User Defined Scale



Click the Customer Scale Tab, the Customer Scale page will be shown.

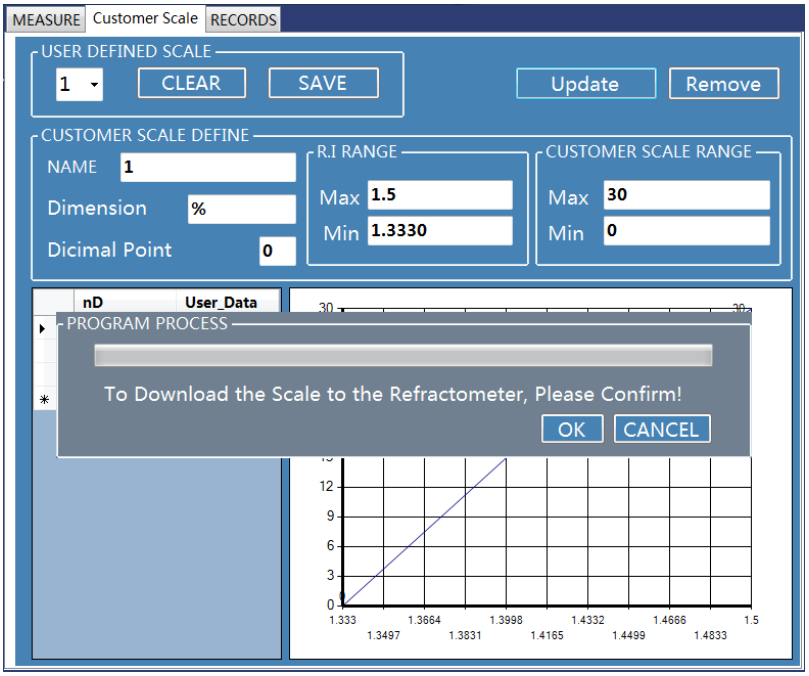


For example:



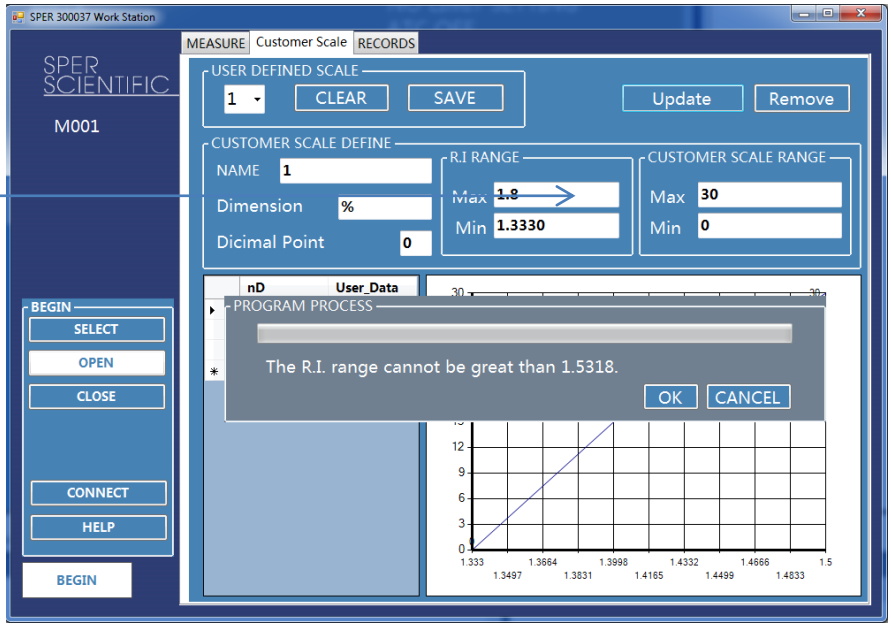
USER SCALE: 1
NAME: USR1
UNIT: %
DICIMAL POINT: 1
LOW BANDRAY: 1.3330, 0.0
HIGH BANDRAY: 1.5, 30.0
DATA POINT: 1.3330, 0.0 | 1.4, 15.0 | 1.5 30.0

2.4.1 Update



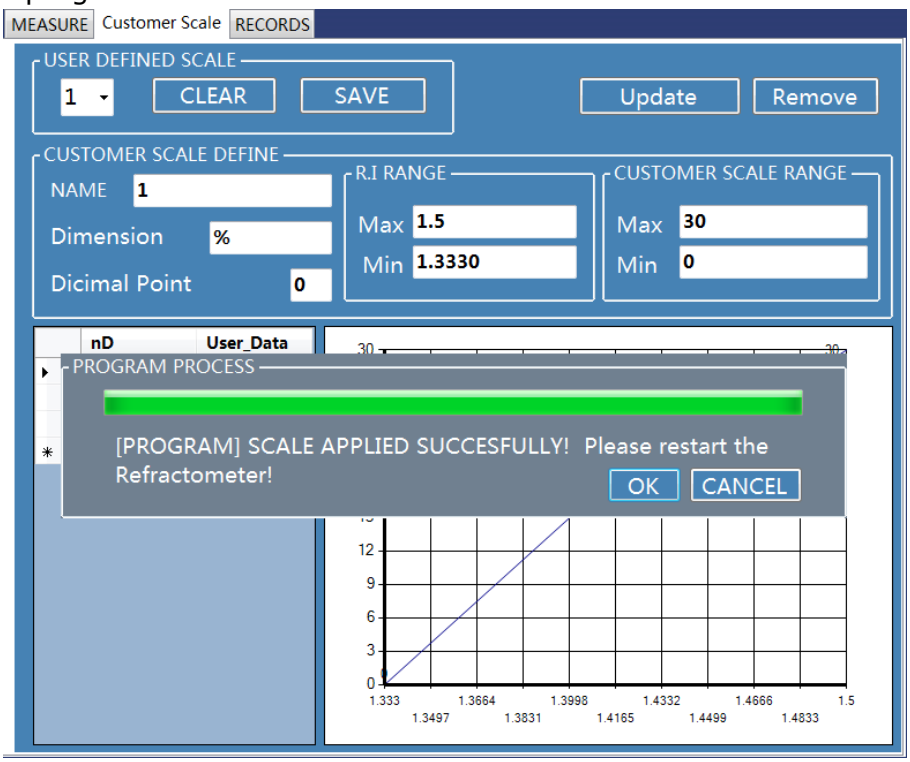
Click the Update button, the progress bar appears and shows the message: "To Download the Scale to the Refractometer, Please Confirm!"
Note: If there are any invalid input values, an error message will appear.

For Example:



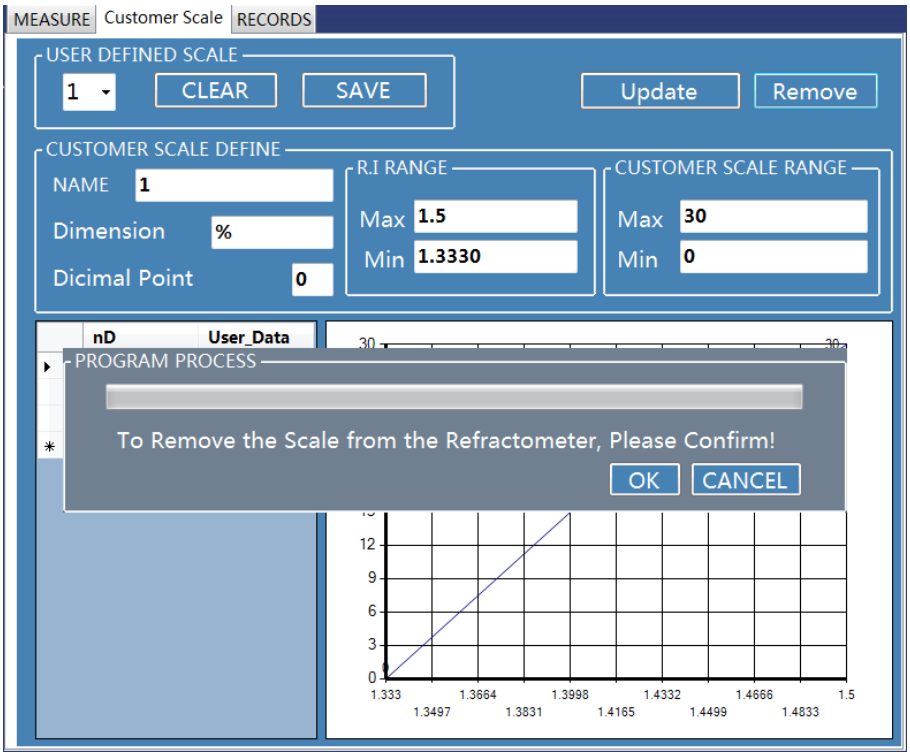
The user set the R.I. Max value equal to the 1.8, after click Update button, the error message appears: "The R.I. range cannot be great than 1.5318".
If the error message appears, please click the CANCEL button and modify the value according to the tips.

After the program confirmation:



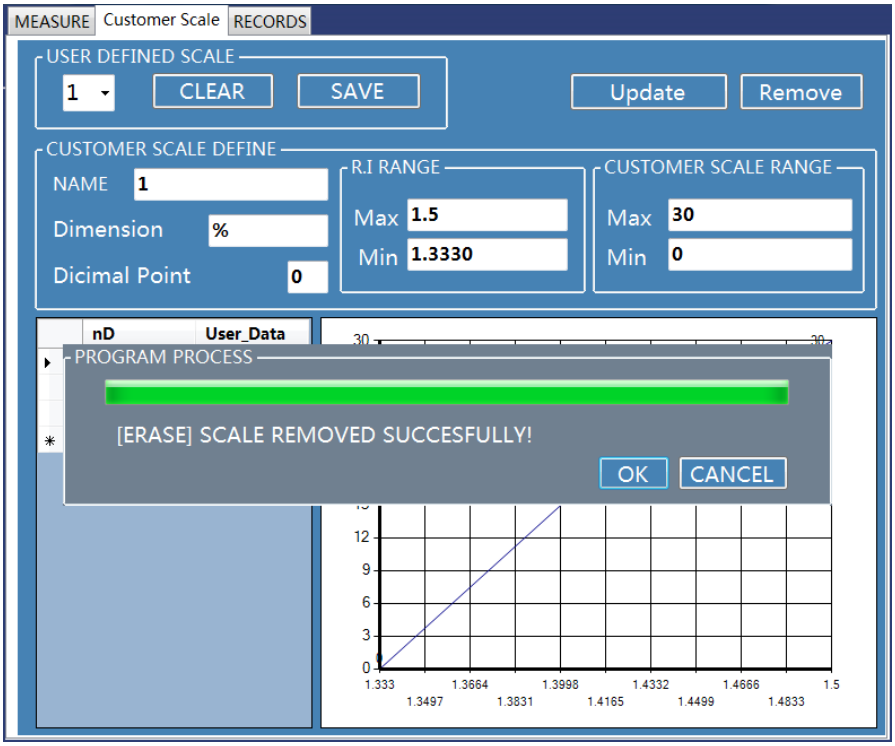
If no problems occur during the process, the following message will appear:
"[PROGRAM] SCALE APPLIED SUCCESSFULLY! Please restart the Refractometer!"
Do not click OK until the Refractometer has been re-started.
Press the ON/OFF Button twice to restart the meter, and the customer scale in the meter is active now. Click OK.

2.4.2 Remove

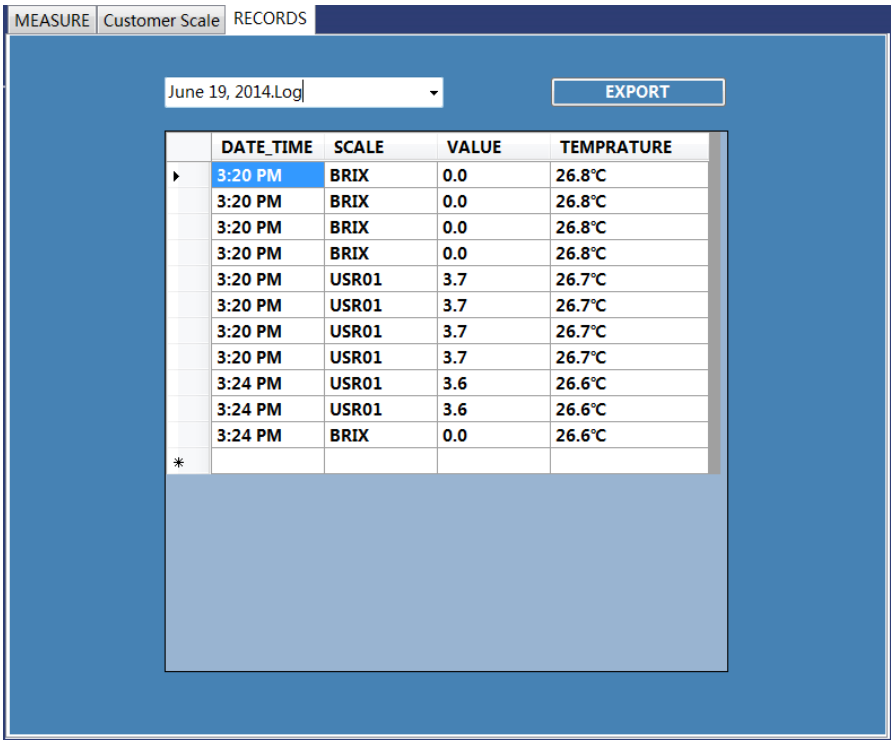


Click the Remove button, the progress bar appears and show the message: "To Remove the Scale from the Refractometer, Please Confirm!"

Click the OK button, the scale will be removed from the refractometer.



2.5 Record View



If the Auto Record option is on, every reading taken will be recorded. Just select the Record file, the recorded data will be shown in the table. The record file name is formatted as “DATE.log”.

Press the EXPORT button, the record file will be saved as a Microsoft office excel table file.