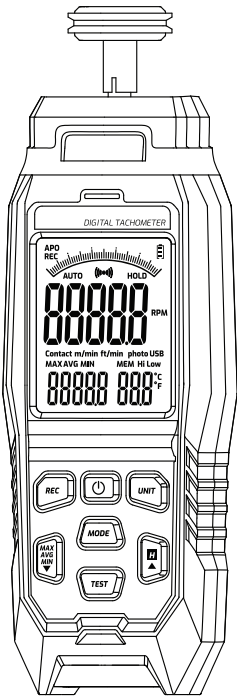


DIGITAL TACHOMETER

USER MANUAL





to download the
USER MANUAL
in different languages
and SOFTWARE

TUTORIAL VIDEO ON HOW TO USE

Need more help? CONTACT US.



www.cd50.net/565

INTRODUCTION

This digital tachometer that can measure the RPM or surface speed and distance. It is applicable to electric power, steel, petrochemical, aviation, fan manufacturing. pipeline ventilation system, underground warehouse and other occasions.

SAFETY INFORMATION

To prevent eye damage and personal injury, please read all safety information carefully before you use the product.

WARNING

- Do not use this product in an environment with explosive gas, flammable vapor and dust;
- Please check the product before use. Do not use if the product is damaged;
- Replace the batteries when the “ ” symbol shows to prevent incorrect measurements;
- Under contact measurement model, it is easy to cause the measurement value to be lower than the normal value due to insufficient friction if the rotating speed of the measured object is too fast;
- During contact measurement, please keep the ambient light source stable, otherwise the measurement may fail;
- To prevent battery leakage, please remove the battery if the product is not used for an extended period of time, or if stored in temperatures above 50°C;
- Only authorized technicians are allowed to repair this product.

PRODUCT

LCD screen

Data recording

Max / Avg / Min / Decrease

Test

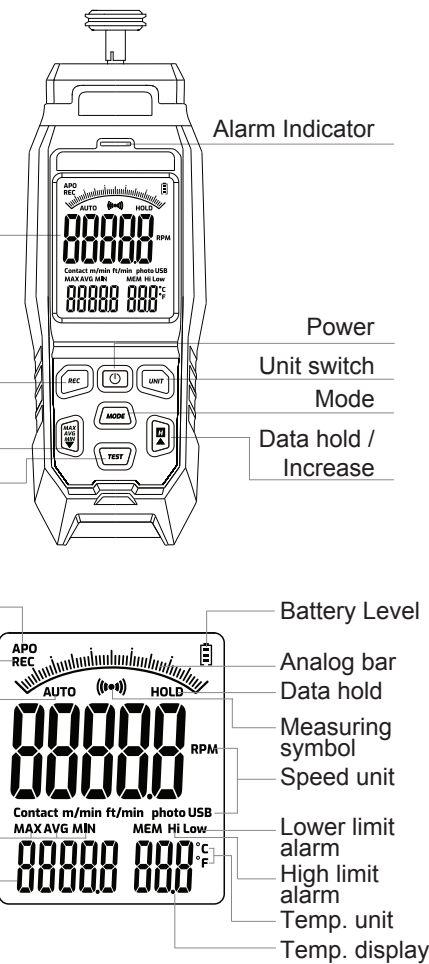
Auto power off

Data recording

Auto range

Max/Avg/Min

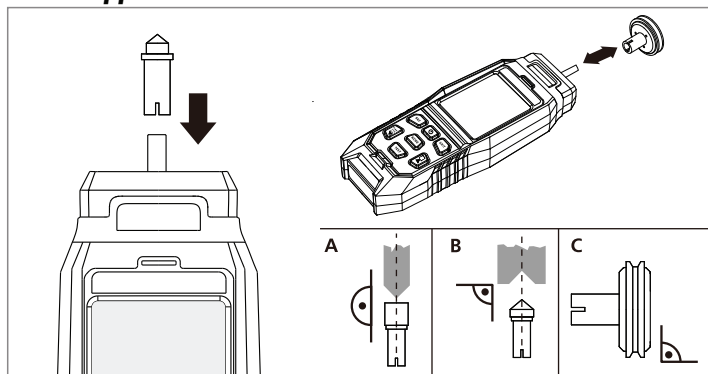
Multifunction display



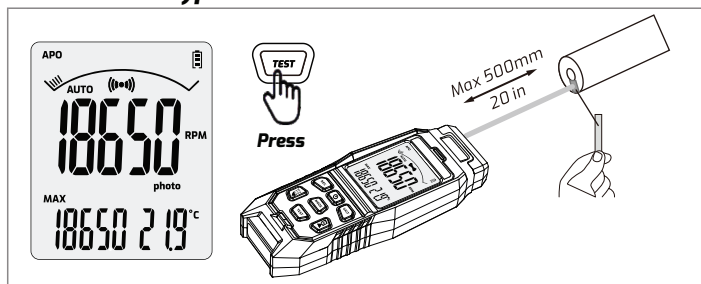
SPECIFICATIONS

Item	Parameter
Measuring Range	• Non-contact type: 3~100000RPM • Contact type: 3 ~ 19999RPM • Linear speed: 0 ~ 99999m / 0 ~ 1999.9m/min / 0 ~ 9999.9ft/min
Accuracy	Non-contact type: $\pm 0.05\%FS \pm 1RPM$ Contact type: $\pm 0.1\%FS \pm 1RPM$
Resolution	RPM: 0.1 (<10000) / 1 (≥ 10000) m: 0.1 (<10000) / 1 (10000~100000) m/min: 0.1 (<2000) ft/min: 0.1 (<1000)
Display	5 digits, Max. 99999
Effective measuring distance	50mm ~ 500mm (Non-contact)
Ambient temperature	Range: -10 ~ 50°C, Accuracy: $\pm 2^{\circ}C$
Sampling time	0.85s (≥ 60 RPM)
Data recording	2000 groups storage
PC Data Upload	Supported
Working Condition	-10 ~ 50°C, $\leq 80\%RH$, Altitude <2000m
Storage Condition	-10 ~ 50°C, $\leq 70\%RH$ (Removed battery)
Dimension	200 x 70 x 35mm
Weight	Approx. 200g (without battery)
Power Supply	3 x 1.5V AA(LR06) battery or Micro USB 5V

Probe Application

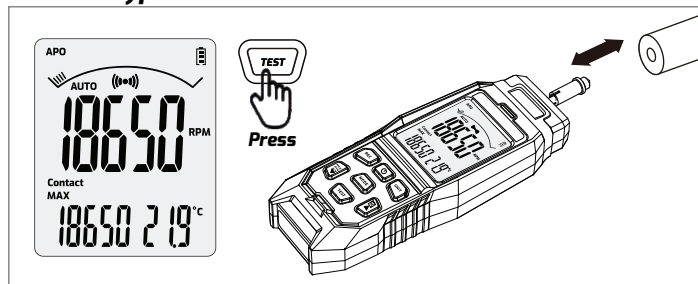


Non-Contact Type



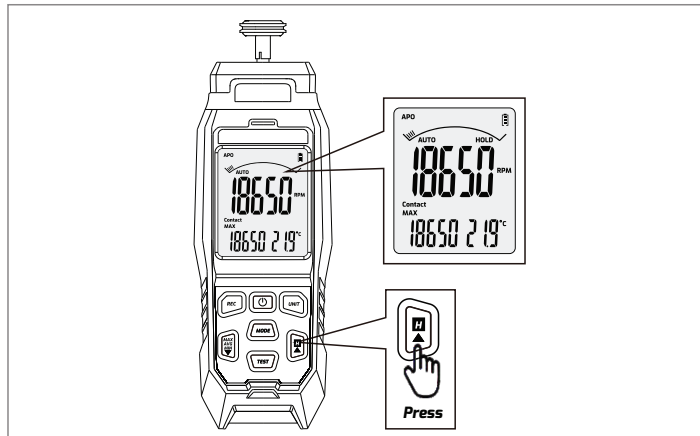
1. Press the “UNIT” button to switch to Photo Mode.
2. Next, press the “TEST” button to begin measurement.

Contact Type



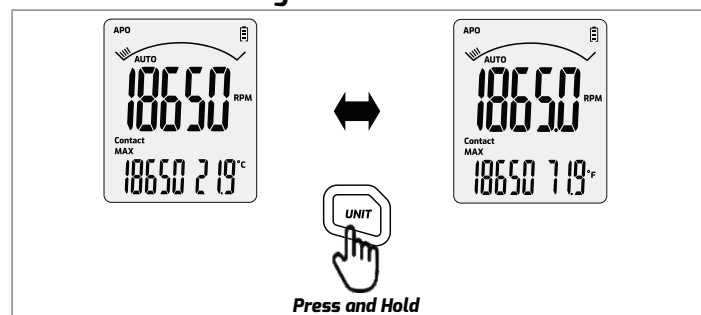
1. Press the “UNIT” button to switch to Contact Mode and select your preferred measurement unit.
2. Next, press the “TEST” button to begin measurement.

Data Hold



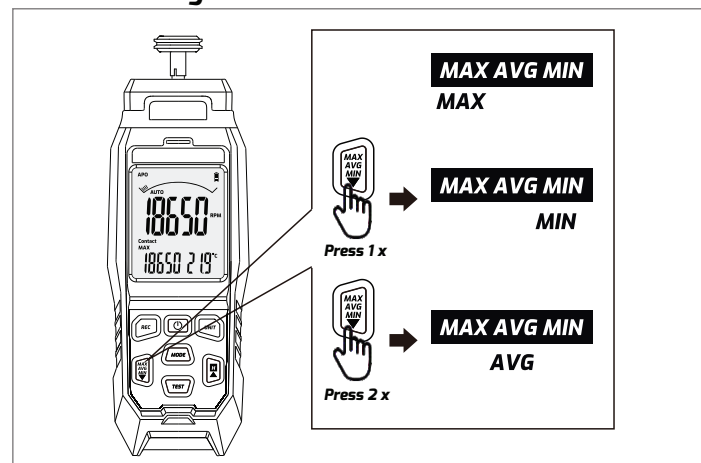
1. Press the “HOLD” button to freeze the reading. The **HOLD** icon will appear on the display.
2. Press the “HOLD” button again to resume measurement. The **HOLD** icon will disappear.

°C and °F Unit Switching



1. Press and hold “UNIT” button to change between °C and °F.

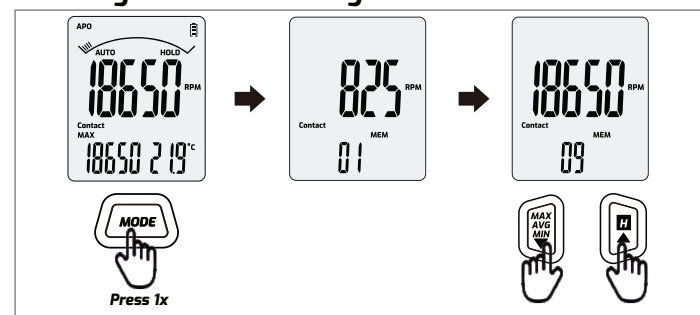
Max / Min / Avg



NOTE: MAX is displayed by default.

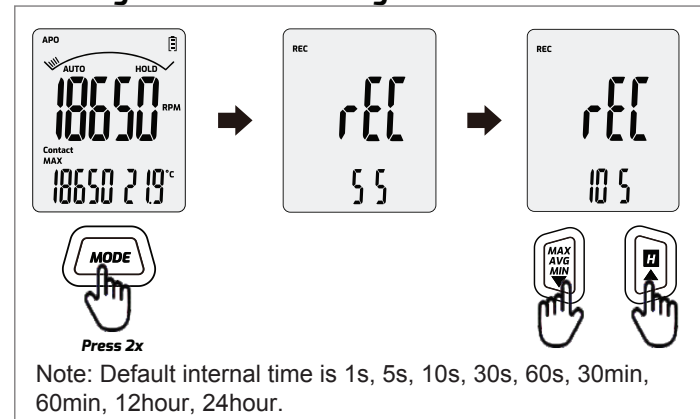
1. Press “MAX AVG MIN” button once to display MIN.
2. Press “MAX AVG MIN” button again to display AVG.
3. Press “MAX AVG MIN” button once more to return to MAX.

Recording Data Check Setting



1. Press “MODE” button once to enter recorded data review mode.
2. Press the “MAX AVG MIN” or “HOLD” button to browse recorded data.
3. Press and hold “MODE” button to exit.

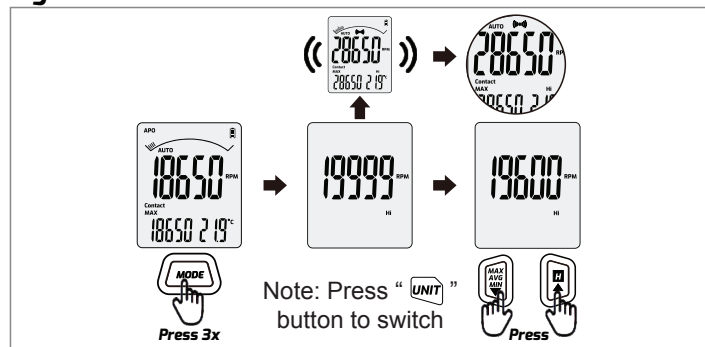
Recording Interval Time Setting



Note: Default internal time is 1s, 5s, 10s, 30s, 60s, 30min, 60min, 12hour, 24hour.

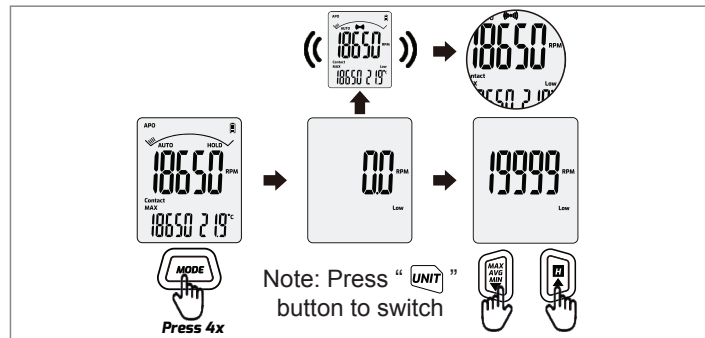
1. Press “MODE” button twice to enter recording interval setting mode.
2. Press the “MAX AVG MIN” or “HOLD” button to toggle among options: 1s, 5s, 10s, 30s, 60s, 30min, 60min, 12h, 24h.
3. Press “MODE” to confirm.

High Alarm Value



1. Press "MODE" button three times to enter High Alarm setting mode.
2. Press "UNIT" button to select the required measurement mode and unit.
3. Press "MAX/AVG/MIN" or "UP/DOWN" button to adjust the alarm value.
4. Press "MODE" button to confirm.

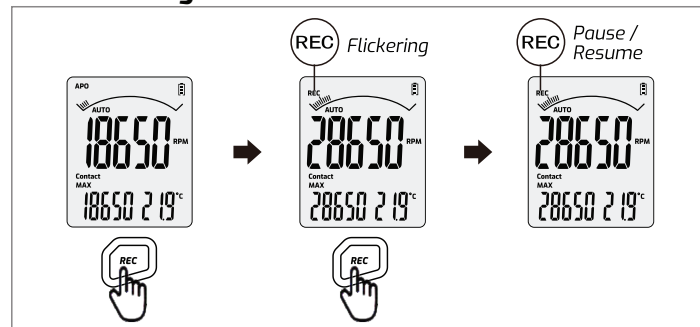
Low Alarm Value



1. Press "MODE" button four times to enter Low Alarm setting mode.
2. Press "UNIT" button to select the required measurement mode and unit.
3. Press "MAX/AVG/MIN" or "UP/DOWN" button to adjust the alarm value.
4. Press "MODE" button to confirm.

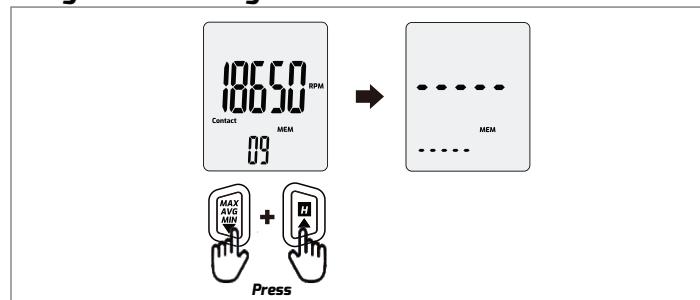
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Data Recording



1. Press and hold "REC" button to enter or exit recording mode.
2. Press "REC" button to pause or resume recording.

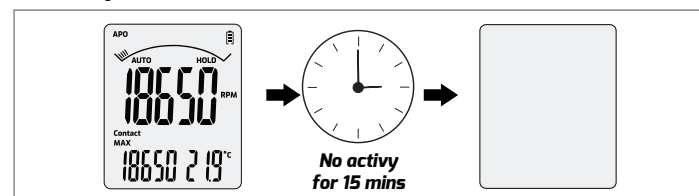
Strage Data Clearing



Under recorded data review mode, simultaneously press the "MAX/AVG/MIN" or "UP/DOWN" buttons to clear stored data.

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Disable / Enable Auto Power Off Function

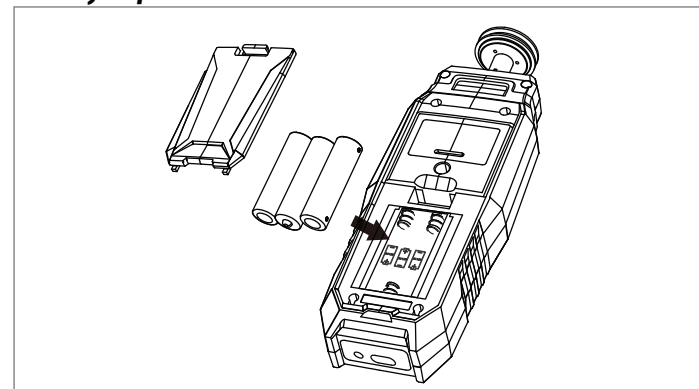


The auto power off function switches on by default, the screen shows the **APO** symbol when turning on the meter. Only if you stop using it for 15 minutes will it trigger the automatic power off mode.

To disable Automatic Power Off: Before startup the device, long press the "UP/DOWN" and "MODE" buttons simultaneously until **APO OFF** icon appears on the screen. **APO** symbol will disappear after disabling the Auto Power Off function.

Note: The Auto Power Off function is automatically disabled when the unit is powered via USB.

Battery Replacement



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DATA LOGGING AND PC INTERFACE

1. TYPES OF DATA RECORDING

Data logging on the software: Automatically log data onto the software where the number of data points is unlimited.

Data logging on the meter: The meter can store up to 2000 readings internally.

2. DATA LOGGING ON THE SOFTWARE

a. Please download and install the free EnvironmentalTester software from the QR code or URL below.

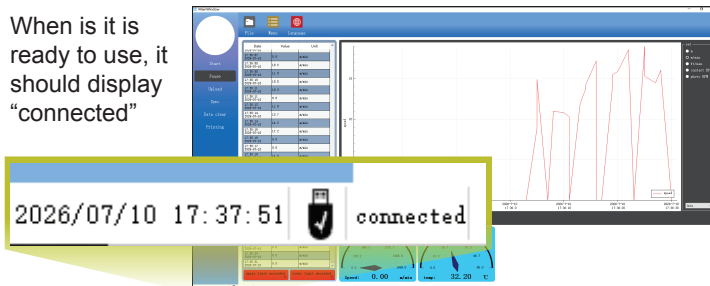
Scan the Qr Code:



www.cd50.net/565

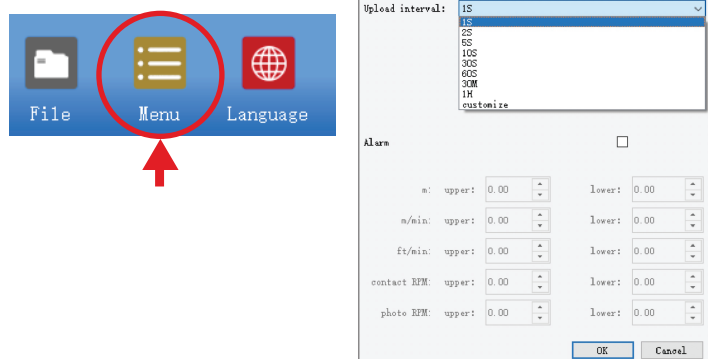
b. Double click EnvironmentalTester to run it and then connect the tachometer to the computer via USB cable included in the set.

c. Once it is ready to use, the software interface should display as below.

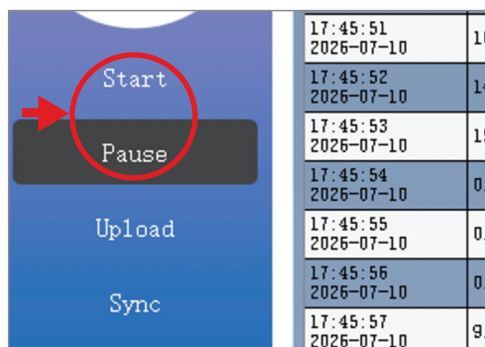


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d. Configure parameters. Click menu button located at the top of the software, it will pop up a dialog window. You can select the desired sampling rate and alarm threshold there and click OK to confirm. The available sampling rates are: 1s, 2s, 5s, 10s, 30s, 60s, 30min, 1h and customize.

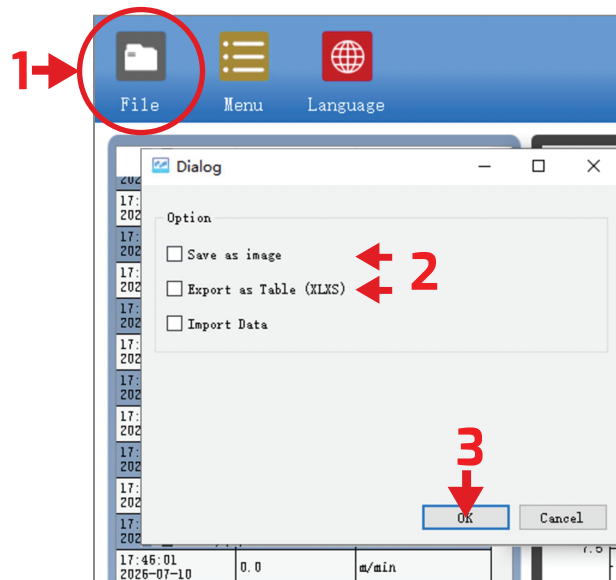


e. Press the Start / Pause button located at the left of the software to start/pause recording.



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f. To export the data points, please click the “File” button located at the top of the software and then select to save them in image or table or both format.



⚠ IMPORTANT!

To prevent the loss of data points recorded in the software, it is necessary to export them before exiting the program or uploading the data points stored in the meter. Failure to do so will result in the deletion of all recorded data points in the software.

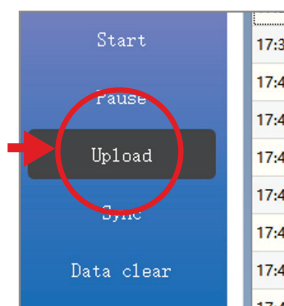
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3. DATA LOGGING ON THE METER

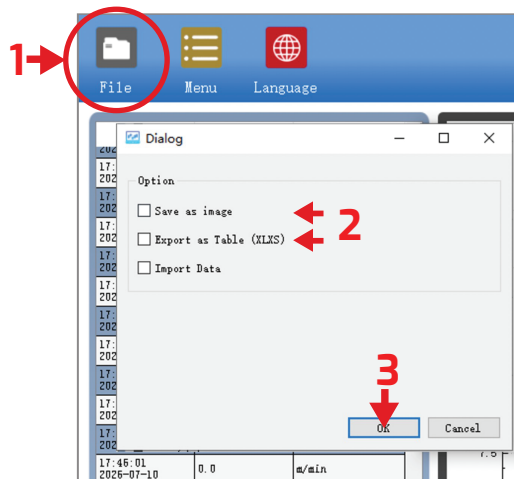
a. Set the desired sampling rate and long press the “**REC**” button to start/stop recording, “**REC**” symbol will be flashing when in recording mode.

b. Run the software and then connect the tachometer to the computer via USB cable.

c. Click “Upload” and wait few seconds, the data points stored in the meter will be synchronize to the software.



d. To export the data points, please click the “File” button located at the top of the software and then select to save them in image or table or both format.



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WARRANTY

This product is warranted against defects in materials and workmanship under normal operating conditions. The one-year warranty term commences on the date of purchase.

To claim warranty service, contact your dealer or manufacturer to receive return authorization prior to sending the unit to the service center.

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