

HUMMING PROBE pH Measurement system

User Manual (V1.0)

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1. Introduction

1.1. Product Introduction

- Thank you for choosing **HUMMING PROBE** pH measurement system. Please read this manual carefully before using. It will provide you with the information you need to use this product.
- **HUMMING PROBE** calibration-free pH measurement system UX200 together with UH strip electrodes make pH measurement simple and accurate. The unique features: calibration-free and low sample requirement allow multiple applications feasible.
- UX200 Meter design with high-resolution color touch panel and comprehensive user interface, make it easy to learn and operate. Data can be edited and stored with graphics and text, making data storage complete and meaningful.
- UH strip electrode, innovatively integrate the principle of electrode measurement on a single test strip electrode for pH measuring. It is easy to use, free from calibration, convenient to store and carry. Measurement is just easy and quick.
- UX200 possesses the function of **real time XY axis data chart** on screen , showing a continuous pH or voltage data curve (Y axis) relevant to time (X axis). Users can instantly trace the change of pH or voltage curve clearly.
- The **HUMMING PROBE** pH measurement system is manufactured by UltraE Co., Ltd., and sold by authorized dealers. If you have any questions or comments about our products, please call our company or contact your local distributor. We will assist you as soon as possible.

1.2. Safety Instructions

- Read this manual thoroughly before using the instrument.
- When you suspect that the instrument is damaged, do not use it, notify us or distributor immediately.
- Do not place the pH Meter in water.
- If you have any questions about using the system, please contact us or your dealer.

2. Product Description

2.1. HUMMING PROBE pH Measurement System

Using calibration-free test strip electrode to measure pH value of solvent: The package contains:

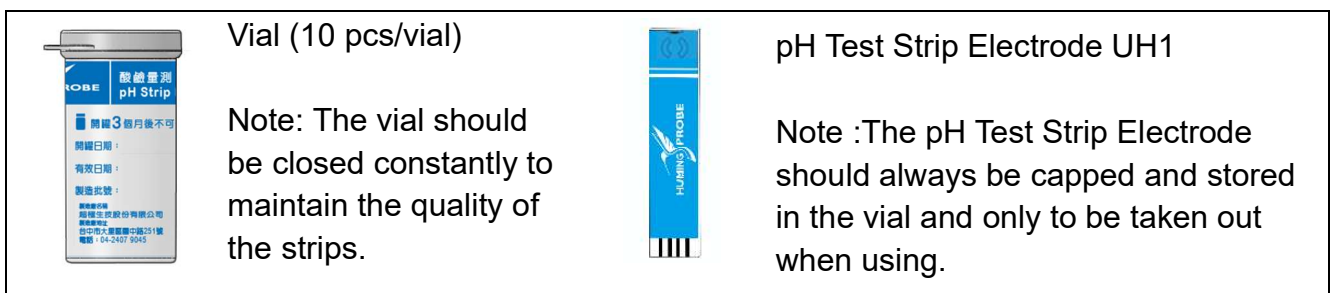
- (1). UX200 : pH Measurement Meter (1 unit)
- (2). UH : pH test Strip electrode (10 pcs in a vial)
- (3). Strip Extended Connection cable (1 pc)
- (4). Charger (1 pc)
- (5). Micro USB cable for charging and data transfer. (1 pc)
- (6). Brief User Manual
- (7). User manual is built inside the Meter storage and can be copied to computer for reading.

3. Product, Accessories and Function keys

3.1. UX200 pH Measurement Meter



3.2. UH1: pH Test Strip Electrode



3.3. Strip Extended Connection Cable

Strip Extended Connection Cable



Plug connecting to Meter socket



Adapter for pH test strip electrode to insert



Strip electrode insert method and direction.



3.4. Charging

UX200 rechargeable battery can be used for a few hours after fully charged. Plug the Charger into 100/240V AC power supply and connect to the Meter with micro USB Cable.

3.5. Touch screen icon definition

	Setup		HOME
	Scanning QR code		Previous Menu
	Execute Inspection		Previous Menu
	Enter		Previous Menu
	Enter pH inspection data database		Scan QR code
	Delete		Camera light off
	Selects All		Camera light on
	Input Text		Not selected
	Activate Camera		Selected
	1. Enter the mode selection menu 2. Select the Cable Socket mode		1. Enter the mode selection menu 2. Select the Strip Port Mode
	Take Photo		Enter selection chart
	Show pH value Enter setup graph menu		Show volt value Enter graph setup menu

4. Main screen & Description

Switch on and enter main screen (press and hold the power switch for 2 seconds)

The screenshot shows a mobile application interface for a pH meter. At the top, it displays the date and time (2020/12/25 10:25). Below this, there's a 'pH' reading area with a dashed line. A temperature gauge is on the right side. The main display area shows a 'pH' graph with a y-axis from 0 to 14 and an x-axis for 'Time[Sec]' from 0 to 50. A message 'Import Lot Number to Start!' is displayed above the graph. At the bottom, there are several icons: a gear for 'Setup Menu', a QR code for 'Scan QR Code', a play button for 'pH or mV real time curve', and a list icon for 'Storage Data Menu'. A legend on the right side maps these icons to their functions.

Icon	Touch icon description
	Mode Switch: Switch to Strip Port mode
	Switch to Cable Socket mode
	Setup : parameter setup
	Scan QR code : scan the QR code
	Enter storage data menu
	Enter graph setup menu
	Enter graph setup menu

Import Lot number to start.

Lot number : Also known as batch number. Every batch of strip production has its unique lot number, printed as QR code on the cap of the vial. Scan the QR Code when using the strip for the first time to load the technical parameter of the pH Strip into the Meter.

Lot number format : nnnnnnnnnn # nn n: number

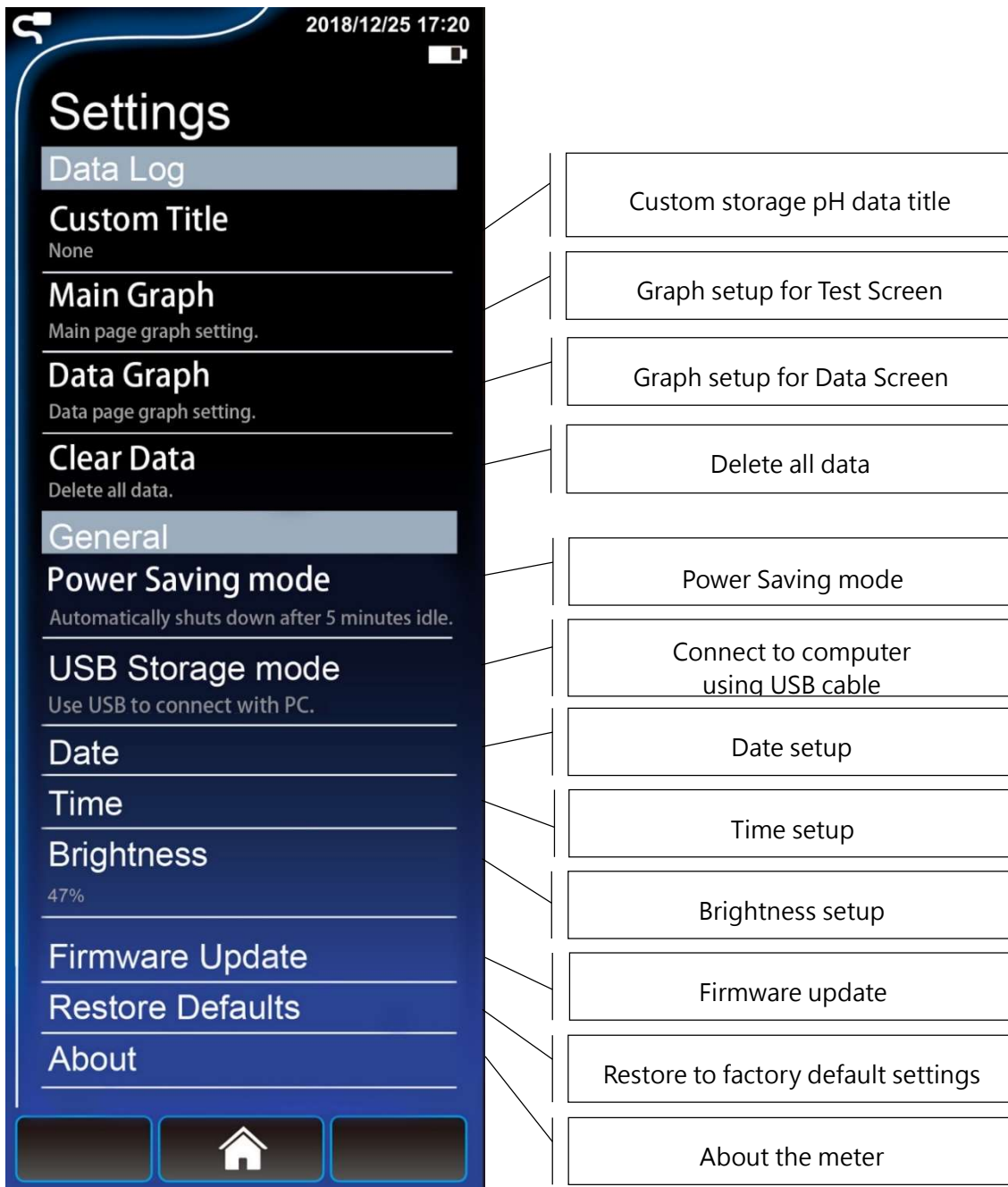
The left 10 digits is the Lot number, while the number behind # is the number of the strips in the vial un-used. Every time when you insert and pull out a strip, the number will be decrease by 1, and when the number becomes zero, rescanning the QR code is necessary. This count down design is to remind users to re-scan the QR code of a new batch of strips .

5. UX200 Setup

5.1. Setup Menu and Function List



Tab  to initiate setup menu

Tab and drag the screen to move the menu up and down.



Operation Instruction

Custom Title

Tab to enter the input page, you can input a title as the preset title of the pH storage record, tab  to confirm , or tab  to return to the previous screen.

UX200 possesses the function of **real time XY axis data chart on screen** , showing a continuous pH or voltage data curve (Y axis) relevant to time (X axis). Users can instantly trace the pH or voltage curve clearly.

Main Graph

Main page graph setting.

Graph Settings	
Quiet Time :	0 sec ▼
Graph Data Save :	On ▼
Time Interval :	0.5 sec ▼
- Max Runtime :	14hr 13min 20sec
Display Data :	pH ▼
Graph Mode* :	Compression ▼
Retention Time* :	40 Sec ▼
Data Compression* :	Peak ▼
Y-Axis Direction* :	Positive up ▼
Color :	Dark ▼
(* means that the graph has to reload.)	
ok	Cancel

Tab **Main Graph** icon to enter Test Screen graph setup menu.

Tab ▼ of each corresponding option to start setup.

Graph Settings	
Quiet Time :	0 sec ▼
Graph Data Save :	0 sec ▼
Time Interval :	1 sec ▼
	2 sec ▼
	5 sec ▼
	10 sec ▼
- Max Runtime :	
Display Data :	
Graph Mode* :	Compression ▼
Retention Time* :	40 Sec ▼
Data Compression* :	Peak ▼
Y-Axis Direction* :	Positive up ▼
Color :	Dark ▼
(* means that the graph has to reload.)	
ok	Cancel

Quiet Time :

The length of time before showing and recording data after pressing the inspection icon, . Choices are 0,1,2,5,10, sec. Data will start to be recorded and shown on graph after reaching quiet time.

Graph Settings	
Quiet Time :	0 sec ▼
Graph Data Save :	On ▼
Time Interval :	Off ▼
	On ▼
- Max Runtime :	
Display Data :	pH ▼
Graph Mode* :	Compression ▼
Retention Time* :	40 Sec ▼
Data Compression* :	Peak ▼
Y-Axis Direction* :	Positive up ▼
Color :	Dark ▼
(* means that the graph has to reload.)	
ok	Cancel

Graph Data Save :

Saving graph data Automatically as data file.

Off switch Off
 On Switch On

Graph Settings	
Quiet Time :	0 sec ▼
Graph Data Save :	On ▼
Time Interval :	0.5 sec ▼
- Max Runtime :	0.1 sec
Display Data :	0.5 sec
Graph Mode* :	1 sec
Retention Time* :	5 sec
	10 sec
Data Compression* :	Peak ▼
Y-Axis Direction* :	Positive up ▼
Color :	Dark ▼
(* means that the graph has to reload.)	
ok	Cancel

Time Interval :

Continuous data saving time interval for adjacent data.
 Choices are 0.1,0.5,1,5,10 sec

Max Runtime

Maximum recording time.

Graph Settings	
Quiet Time :	0 sec ▼
Graph Data Save :	On ▼
Time Interval :	0.5 sec ▼
- Max Runtime :	14hr 13min 20sec
Display Data :	pH ▼
Graph Mode* :	pH
Retention Time* :	Voltage
Data Compression* :	Peak ▼
Y-Axis Direction* :	Positive up ▼
Color :	Dark ▼
(* means that the graph has to reload.)	
ok	Cancel

Display Data :

Choose to show pH or Voltage (mV) on graph.

Graph Settings	
Quiet Time :	0 sec ▼
Graph Data Save :	On ▼
Time Interval :	0.5 sec ▼
- Max Runtime :	14hr 13min 20sec
Display Data :	pH ▼
Graph Mode* :	Compression ▼
Retention Time* :	Compression
Data Compression* :	Shifting
	Reflash
Y-Axis Direction* :	
Color :	Dark ▼
(* means that the graph has to reload.)	
ok	Cancel

Graph Mode :

The initial time range setting for x axis will be 40 secs . As the time proceeds , there are 3 choices to show the data graph on screen :
Compression \ Shifting \ Reflash

Compression : All the data will be shown on the screen. As time proceeds, all the data will immediately form a continuous curve on the screen .

i.e. The initial time range setting will be 40 secs . When the time exceeds 40 secs, the X axis time range will double to 80 secs and the curve will be compressed in accordance . Every time the time exceeds the present range, the time axis range will again double and the data curve will be compressed accordingly.

The compression method of Y axis data can be set up as peak or average at the later setup option.

Shifting :When time reaches Retention time, time Axis (X axis) length will be fixed as Retention time , showing only the newest data as time proceeds..

i.e. The initial time range setting will be 40 secs . When the time exceeds 40 secs, the X axis time range will double to 80 secs and the exiting curve will be compressed in accordance . Every time the time exceeds the present range, the time axis range will again double and the data curve will be compressed accordingly..

But When the time reaches the retention time, the X axis time range will no longer increase and stay fixed. As time proceeds, only the newest data will be shown in the newest time range, data before the range will not be shown.

The compression method of Y axis data can be set up as peak or average at the later setup option.

Reflash :When time reaches Retention time, time Axis (X axis) length will be fixed as Retention time , showing only the newest data as time proceeds..

i.e. The initial time range setting will be 40 secs . When the time exceeds 40 secs, the X axis time range will double to 80 secs and the exiting curve will be compressed in accordance . Every time the time exceeds the present range, the time axis range will again double and the data curve will be compressed accordingly..

But When the time reaches the retention time, the X axis time range will no longer increase and stay fixed. As time proceeds, a whole new time segment will appear and the newest data will be shown in the newest time segment, data before the range will not be shown.

The compression method of Y axis data can be set up as peak or average at the later setup option.

0

Graph Settings

Quiet Time : 0 sec ▼

Graph Data Save : On ▼

Time Interval : 0.5 sec ▼

- Max Runtime : 14hr 13min 20sec

Display Data : pH ▼

Graph Mode* : Compression ▼

Retention Time* : 40 Sec ▼

Data Compression* : 40 Sec

Y-Axis Direction* : 80 Sec

Color : 160 Sec

320 Sec

(* means that the graph has to reload.)

ok Cancel

Retention time :

The final X axis time length setup of the graph. Choices are 40,80,160,320 sec

Graph Settings

Quiet Time : 0 sec ▼

Graph Data Save : On ▼

Time Interval : 0.5 sec ▼

- Max Runtime : 14hr 13min 20sec

Display Data : pH ▼

Graph Mode* : Compression ▼

Retention Time* : 40 Sec ▼

Data Compression* : Peak

Y-Axis Direction* : Peak

Color : Average

(* means that the graph has to reload.)

ok Cancel

Data Compression :

The compression method to show data curve in the compressed time period .

Peak :

Select the peak of the data set .

Average :

Select the average of the data set.

Graph Settings

Quiet Time : 0 sec ▼

Graph Data Save : On ▼

Time Interval : 0.5 sec ▼

- Max Runtime : 14hr 13min 20sec

Display Data : pH ▼

Graph Mode* : Compression ▼

Retention Time* : 40 Sec ▼

Data Compression* : Peak ▼

Y-Axis Direction* : Positive up

Color : Positive up

Positive down

(* means that the graph has to reload.)

ok Cancel

Y-Axis Direction :

Y axis data value direction

Positive up :

increase upwardly

Positive Down :

decrease upwardly

Graph Settings

Quiet Time : 0 sec ▼

Graph Data Save : On ▼

Time Interval : 0.5 sec ▼

- Max Runtime : 14hr 13min 20sec

Display Data : pH ▼

Graph Mode* : Compression ▼

Retention Time* : 40 Sec ▼

Data Compression* : Peak ▼

Y-Axis Direction* : Positive up ▼

Color : Dark

Dark

Bright

(* means that the graph h

ok Cancel

Color :

Graph Background Color

Dark : Dark Color

Bright : Bright Color

The data charts in the **Data Graph Section** consist all the data, which are compressed.

Data Graph

Data page graph setting.

Graph Settings

Display Data : pH ▼

Data Compression* : Peak ▼

Y-Axis Direction* : Positive up ▼

Color : Bright ▼

(* means that the graph has to reload.)

ok Cancel

Tab **Data Graph** icon to enter Data screen graph setup menu.

Tab ▼ of each corresponding option to start setup.

Graph Settings

Display Data : pH ▼

Data Compression* : Voltage

Y-Axis Direction* : Positive up ▼

Color : Bright ▼

(* means that the graph has to reload.)

ok Cancel

Display Data :

Choose to show pH or Voltage (mV) on graph.

Graph Settings

Display Data : pH ▼

Data Compression* : Peak ▼

Y-Axis Direction* : Positive up ▼

Color : Average

(* means that the graph has to reload.)

ok Cancel

Data Compression : ◦

Compression data to show data curve in the time period .

Peak : Select the peak of the data set .

Average : Select the average of the data set.

Graph Settings

Display Data : pH ▼

Data Compression* : Peak ▼

Y-Axis Direction* : Positive down

Color : Bright ▼

(* means that the graph has to reload.)

ok Cancel

Y-Axis Direction :

Y axis data value direction

Positive up : increase upwardly

Positive Down : decrease upwardly

Graph Settings

Display Data : pH ▼

Data Compression* : Peak ▼

Y-Axis Direction* : Positive up ▼

Color : Dark

(* means that the graph has to reload.)

ok Cancel

Color :

Graph Background Color

Dark : Dark Color

Bright : Bright Color

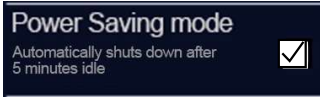
Clear Data

Delete all data

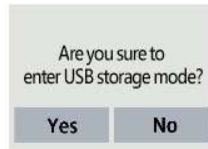
Are you sure to delete all data?
(it may take some time.)

Yes No

Tab and the deletion option appears, tab **Yes** to delete all data, tab **No** to cancel. Note that you cannot restore the change after deleting.



Tick here to enter Power Saving Mode. If the Meter is not in the Detection Status or Measure Screen, the Meter will shut down automatically after 5 minutes of idle to save power consumption.



Tab for the USB connection option to appear, tab **Yes** to connect to the computer, tab **No** to cancel.

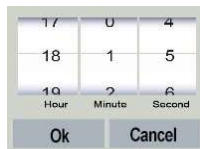


When **Connected** icon is shown, the file manager of the computer will display the UX200 DISK disc. Tab **Touch Here to Exit** to disconnect from the computer and return to the main menu whenever needed.



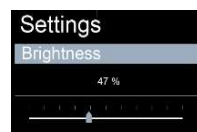
Date setting

Tab to enter the date setting menu, select the correct year, month, and day and tab **OK** to set a new date or tab **Cancel** to cancel.




Time setting

Tab to enter the time setting menu, select the correct hour, minute, and second and tab **OK** to set a new time or tab **Cancel** to cancel.



Brightness

Tab to enter the brightness adjustment menu and slide the indicator to adjust the brightness, tab  to return to previous page



Check firmware update at www.ultrae.com.tw. For new firmware found, download it to computer, then connect Meter to the



After downloading the new firmware FWUD.PACK and store it in UX200, tab here to update.

When the Update Firmware Options appears. Tab **Yes** to confirm update. It will be updated according to the newest firmware version file in the

computer using **USB storage mode** and save the update directory to the UX200 root directory.



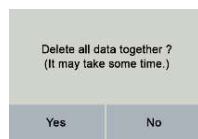
root directory of the UX200.

If the left screen appears, it indicates that the update file was not found, please download the new firmware to the root directory of UX200 in order to update.

Restore Defaults



Tab for the restore defaults option, tab **Yes** to restore to the original factory setting or tab **No** to cancel.



If choosing to restore to the original factory setting, tab **Yes** to confirm data deletion, tab **No** to keep data

About





Tab to Display :
Company Name,
Model Name
SN
Firmware serial number
System serial number



5.2. Measuring Mode Selection:

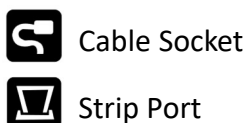
Strip Port Mode or Cable Socket Mode can be selected for detection (factory default setting as Strip Port Mode), the operation steps are as follows:



Tab  or  in the upper left corner of the main screen if you want to change it to another mode.



Option screen appears, tab to choose Cable Socket mode  or Strip Port mode  according to usage.

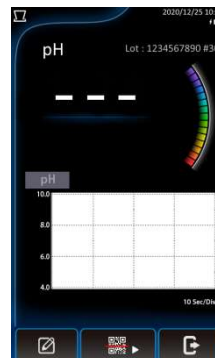



After choosing the new Mode, it will return to the main screen, and the chosen mode will display in the upper left corner.

6. Measuring pH

6.1. Strip Port Mode measuring procedure.


(1) Turn on the meter (press the power switch for 2 seconds) , choose the Strip Port Mode.



(2) Tab the QR code Icon  below the main screen.

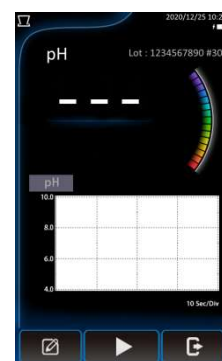
(3) The current Lot no. will display (the number before # is the Lot no., the number after # shows the un-used qty of the strips in the vial. Every strips inserted and pulled out, the qty number will minus 1 automatically) If it is correct, tab **Continue** to enter the Test Screen. Tab **Rescan** for need to rescan.



(4) Rescan: Align the “photo frame” with the QR code on the vial, and then tab the **scan icon**  to scan.



(5) Check the Lot no. (number before #) and tab **OK** if correct. If not, tab **Rescan** to rescan.



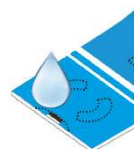
(6) Enter Test Screen

Test Screen

(7) Take the test strip electrode out of the vial and close the vial instantly.

(8) Drop the test sample into the strip sampling port (figure A) or immerse sampling port end into the testing sample until the white line for about 2 seconds .(figure B)

Figure A



(Figure B)



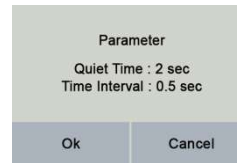
(9) Insert the Strip Insert End into the Meter Strip Port. (step 8 and 9 can be reversed)



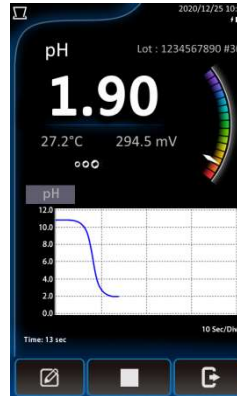
(10) Tap the Inspect icon  .



(11) Current setup parameters will appear on screen. Tap **OK** to continue or tap **Cancel** to cancel.



(12) Real time pH ,(mV), temperature and curve will start to display on screen together with the real time curve. Bubble icons will appear to indicate the status of measurement ,1 bubble (begin) to 5 bubbles (pH stable state). When the pH stable state display, the pH measuring is done and the stable pH reading will display on screen. If autosave was set, the reading data will be automatically saved to UX200 storage.

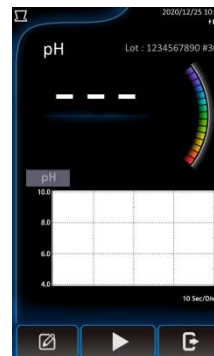



(13) Tap  to end

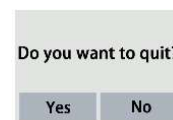
(14) Do you want to save the data ? Tap **Yes** to store the pH data or tap **No** to cancel.



(15) Back to the main Test Screen, the same Lot.no. strips can be used for the next measurement.



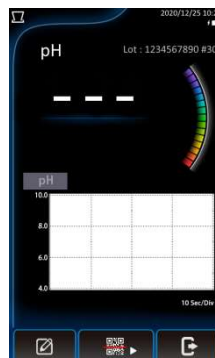
(16) Tap  for option screen and tap **Yes** to return to main menu, tap **No** to remain in the Test Screen.




6.2. Cable Socket Mode Measuring Procedure

(1) Turn on the meter (press the power switch for 2 seconds) , choose the Cable Socket Mode.

Main Screen



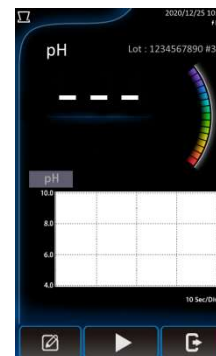
(2) Connect the strip Extended Connection Cable plug to the socket of the meter


(3) Tab the QR code icon  below the main screen.

(4) The current Lot no. will display (the number before # is the Lot no., the number after # shows the un-used qty of the strips in the vial. Every strips inserted and pulled out , the qty number will minus 1 automatically) .

Tab **Continue** to enter the Test Screen if the correct lot no. is displayed. Tab **Rescan** for need to rescan.

Test Screen



(5) Rescan: Align the “photo frame” with the QR code on the vial, and then tab the scan icon  to scan.



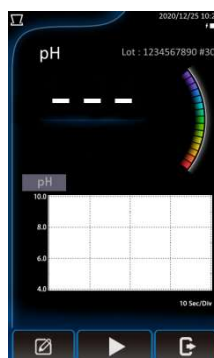
(6) Check the Lot no. (number before #) and tab **OK** if correct. If not, tab **Rescan** to rescan.



(7) Enter Test Screen

Test Screen

(8) Take the test strip electrode out of the vial and close the vial instantly.



(9) Insert the test strip electrode into the adapter of the cable.



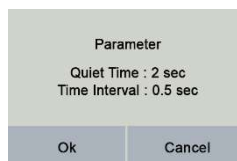
(10) Immerse the strip sampling port end into the testing sample until the white line. If you have a CS200 mixer, you can attach the Extended Connection Cable to the bracket.



(11) Tab the Inspect icon



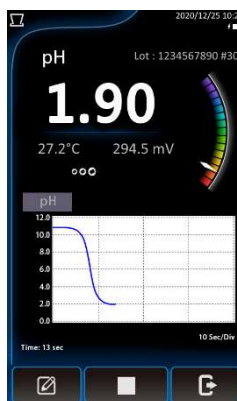
(12) Current setup parameters will appear on screen. Tab **OK** to continue or tab **Cancel** to cancel



(13) Real time pH ,(mV), temperature and curve will start to display on screen together with the real time curve.

Bubble icons will appear to indicate the status of measurement , 1 bubble (begin) to 5 bubbles (pH stable state).

When the pH stable state display, the pH measuring is done and the stable pH reading will display on screen. If autosave was set, the reading data will be automatically saved to UX200 storage



(14) Tab

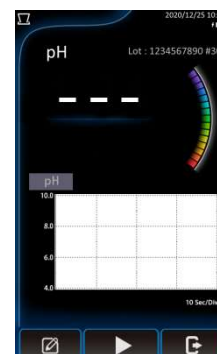
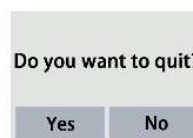
(15) Do you want to save the data ? Tab **Yes** to store the pH data or tab **No** to cancel.




(16) Back to the Test Screen, the same Lot.no. strips can be used for the next measurement.

Test Screen


(17) Tab and tab **Yes** to return to main menu, tab **No** to remain in the Test Screen



7. Stored data Reading and Editing

Tab  to enter data editing Mode

7.1 Read or Edit Data

Tab  to enter data Editing Menu






Tab and drag the screen to move the menu up and down.

Tab individual record to enter data editing page


Tab a record to enter data editing page, the whole xy data curve is shown on page and you can input text or take a photo to help memo the status.



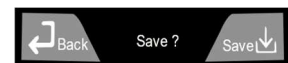
Tab  to enter text input page to input text notes.



Tab  to save data, Tab  to cancel and return to previous page.

Tab  to initiate photo function.

Tab  to take photo.

Confirm screen appears



Tab  to save, Tab  to return.




Tab **pH** or **Volt(mV)** to setup parameters as mention in the previous section.

Long press a record to enter batch selection screen. You can tick single or multiple records to delete.



Tab  to select all records.

Tab  to delete all records, deleted records cannot be restored.

Confirm screen

Tab **Yes** to confirm deletion, tab **No** to cancel deletion.



7.2 USB Storage Mode to connect to PC

- (1) Connect the Meter to computer with USB cable, then choose and enter the **USB Storage Mode**, run the file manager of the computer to find "UX200 DISK".
- (2) Enter "UX200 DISK" root directory, UX200_UserManual.pdf can be found for download.
- (3) The directory "Data" in "UX200 DISK" contains all stored pH measuring data.
- (4) Enter "Data" directory, you can find "DataLog.txt"、"RAWDATA" directory and "PHOTO" directory where photos were stored.
- (5) Copy "dataLog.txt"、"PHOTO" directory and RAWDATA" directory to PC.
- (6) Use EXCEL to run "DataLog.txt", select "Delimited " and choose "Tab" to separate and group the data. You can then save it as Excel file in your Computer.
- (7) Tab the file name on the photo data column to open the photo file. (The Photo directory must be in the same directory of "DataLog.txt".)
- (8) To update firmware, store the newest updated directory FWUD.PACK into the UX200 DISK root directory and run the firmware update process.

8. Technical Data sheet

Specification	
Screen :	7" color LCD touch screen
IP Code :	IP54
Camera :	5 M pixels
Power :	5V DC、2A(100/240V AC)
Battery :	Rechargeable battery 2500 mAh
Dimension (WxLxH) :	129 x 214 x 25 mm
weight :	540 g
Measuring range	
pH range :	0.00 ~ 14.00 pH
Electric Potential :	±1000.00 mV
Temperature :	10° ~ 40°C
Resolution	
pH Value :	0.01 pH
Electric Potential :	0.1 mV
Temperature :	0.1°C
Accuracy	
pH Value :	±0.1 pH
Electric Potential :	0.05%
Temperature :	±0.5° C

9. Warranty

- Under normal usage, UltraE provides a 12 month guarantee for material or manufacturing defects of products after purchase.
- The decision whether or not the guarantee is applicable is subject to UltraE's assessment of the defect cause.
- The guarantee explicitly excludes normal wear and tear and misuse of the meter.
- UltraE holds the right, at wholly its own discretion, to refuse guarantee claims in the event it suspects the meter has been used incorrectly. In cases of incorrect use, UltraE may, but is not obliged to, offer to repair the meter at regular repair fees.
- Please confirm the integrity of the product when purchasing the Meter.
- Any representations and guarantees made by any person, including distributors, representatives and employees of UltraE that are contradictory to the abovementioned guarantee conditions are void unless these are made in writing and signed by an authorized person.
- UltraE is not liable to users for any damages, either direct or indirect, relating to the misuse of the products and accessories