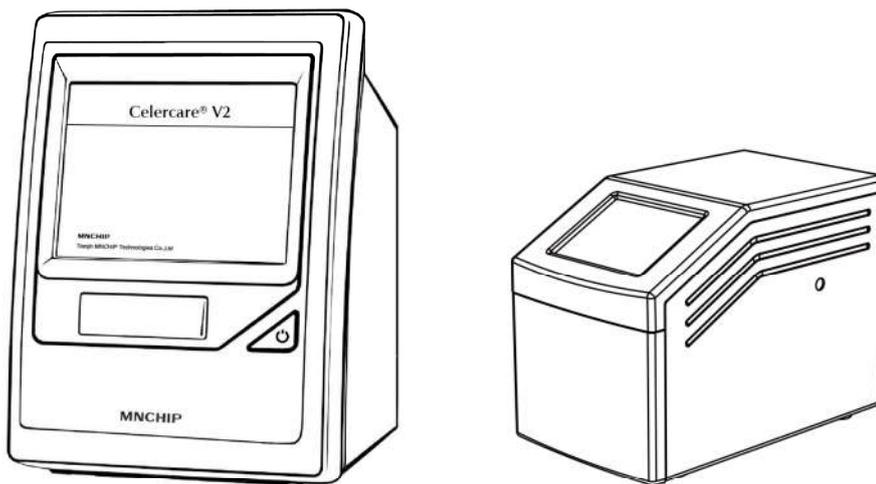


# MNCHIP

## MNChip Veterinary Data Management Platform

### Operator's Manual



Please read the Operator's Manual carefully before use  
For Veterinary Use Only

Revised Date: 2016.08.19

Version: 2.0.1

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## MNChip Veterinary Data Management Platform Operator's Manual

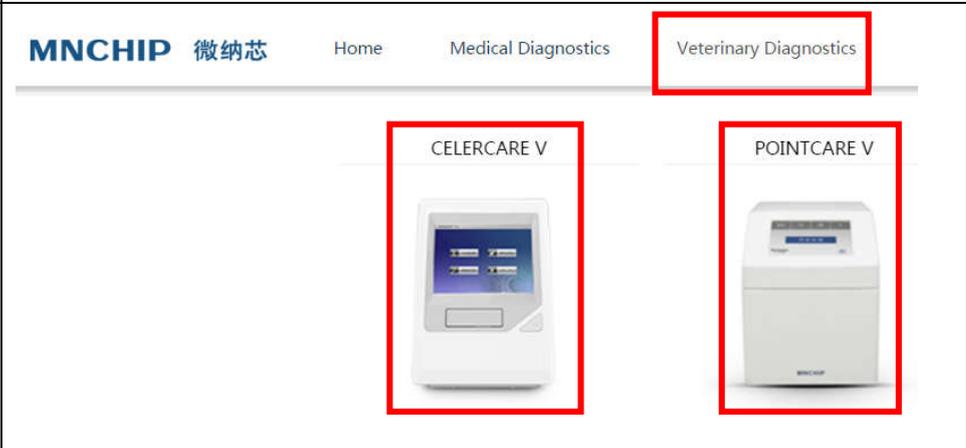
The MNChip Data Management Platform is a Windows® application that saves Blood Chemistry Analyzer results as files on a Windows® PC.

This installation guide describes the essential tasks needed to install and configure the MNChip Data Management Platform. You will have successfully completed the MNChip Data Management Platform when you can transmit data from the MNChip Analyzer and view analyzer results files stored on the local PC.

**Notes: Please go to Control Panel—>Programs of your computer's Windows system to uninstall the old version of MNCHIP Veterinary Data Management Platform first before installing the updated version lest the reference ranges of some items cannot display normally.**

### I . Software Download/Upgrading and Installation

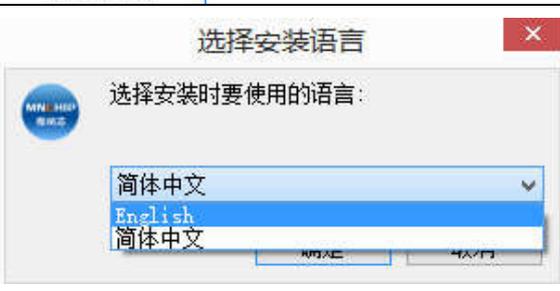
#### 1. Visit the official website of MNChip [www.mnchip.com](http://www.mnchip.com) :

choose the English version; or directly visit <a href="http://www.mnchip.com/index_e.html">www.mnchip.com/index_e.html</a>	
click “Veterinary Diagnostics”, choose either “Celercare V” or “Pointcare V”;	

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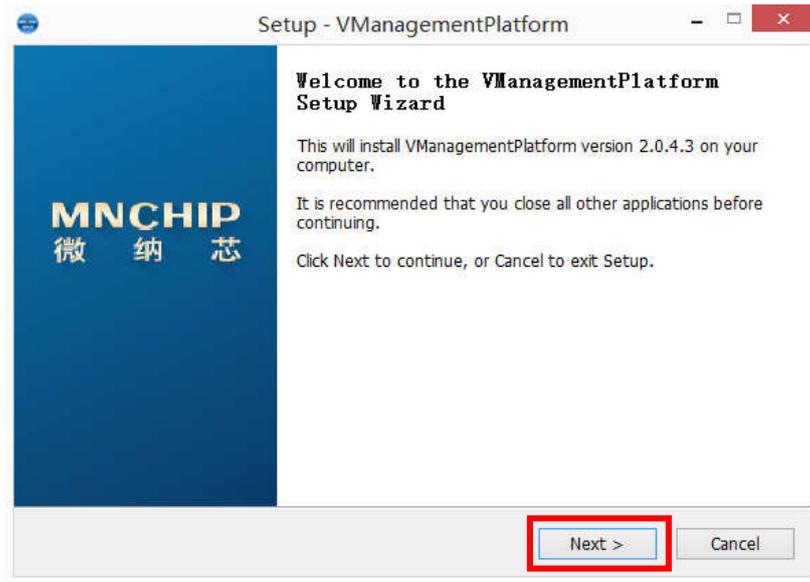
<p>click “Downloads”, download “Celercare/Pointcare V Management Platform Software”; for cable data communication, if necessary, download “Data Line Driver”.</p>	 <p>Features&amp;Benefits Reagent Discs Specification Operation profiles <b>Downloads</b> FAQs</p> <hr/> <p style="text-align: center;">Software download</p> <hr/> <div style="display: flex; align-items: center;">  <div style="border: 1px solid red; padding: 5px;"> <p>↓ Pointcare V Management Platform Software</p> </div> <div style="border: 1px solid red; padding: 5px; margin-top: 10px;"> <p>↓ Data Line Driver</p> </div> </div>
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## 2. After the completion of downloading:

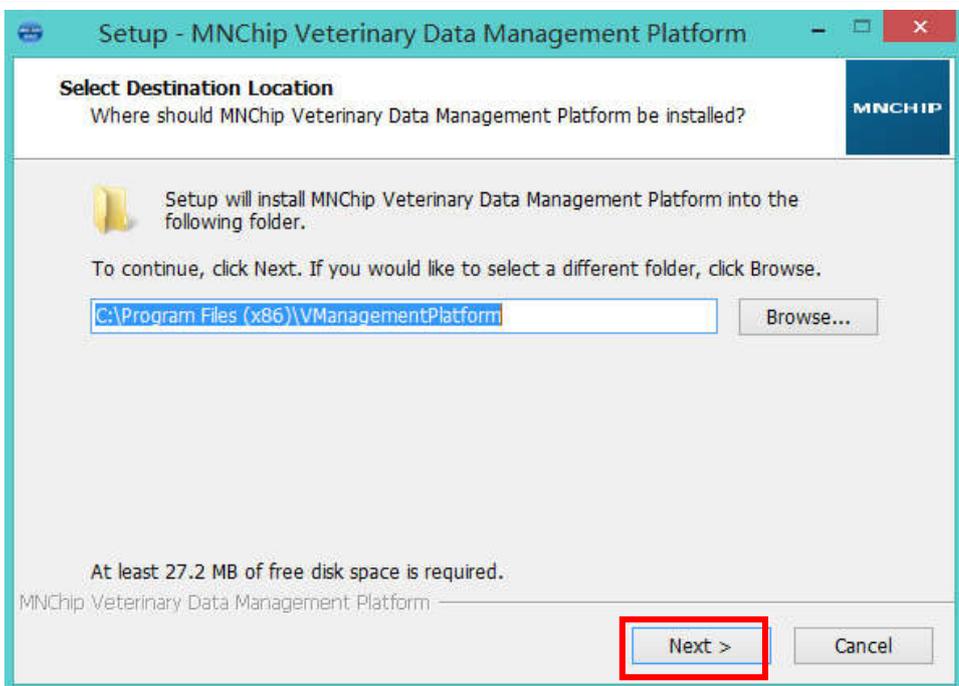
<p>double click the downloaded file “MNChip Veterinary Data Management Platform”;</p>	 <p>MNCHIP 微纳芯 MNChip Veterinary Data Management Platform</p>
<p>choose the language “English”;</p>	 <p>选择安装语言</p> <p>选择安装时要使用的语言:</p> <p>简体中文 English 简体中文</p>

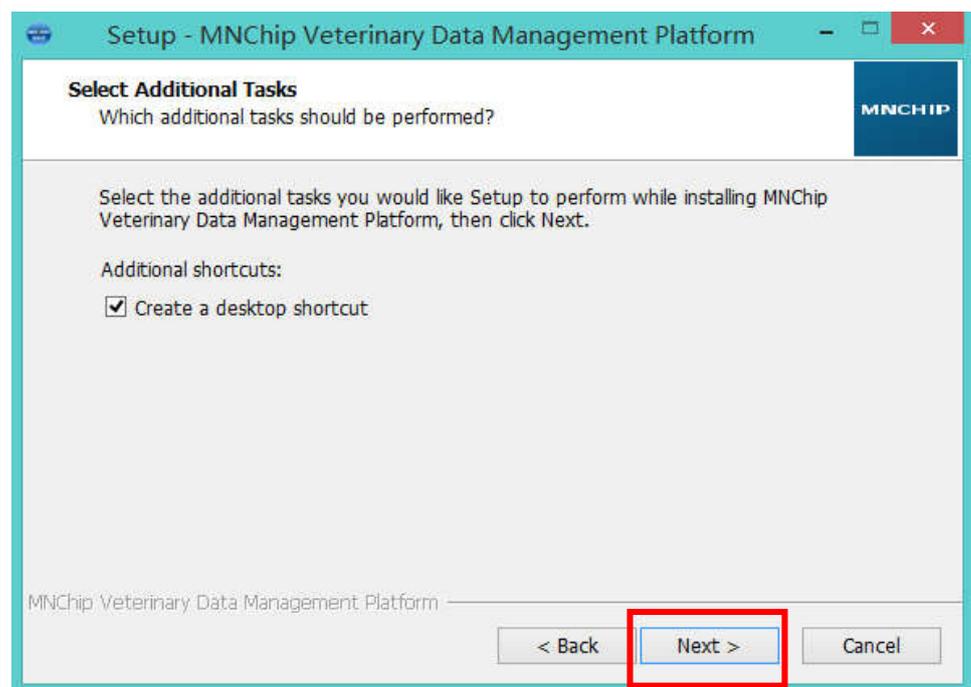
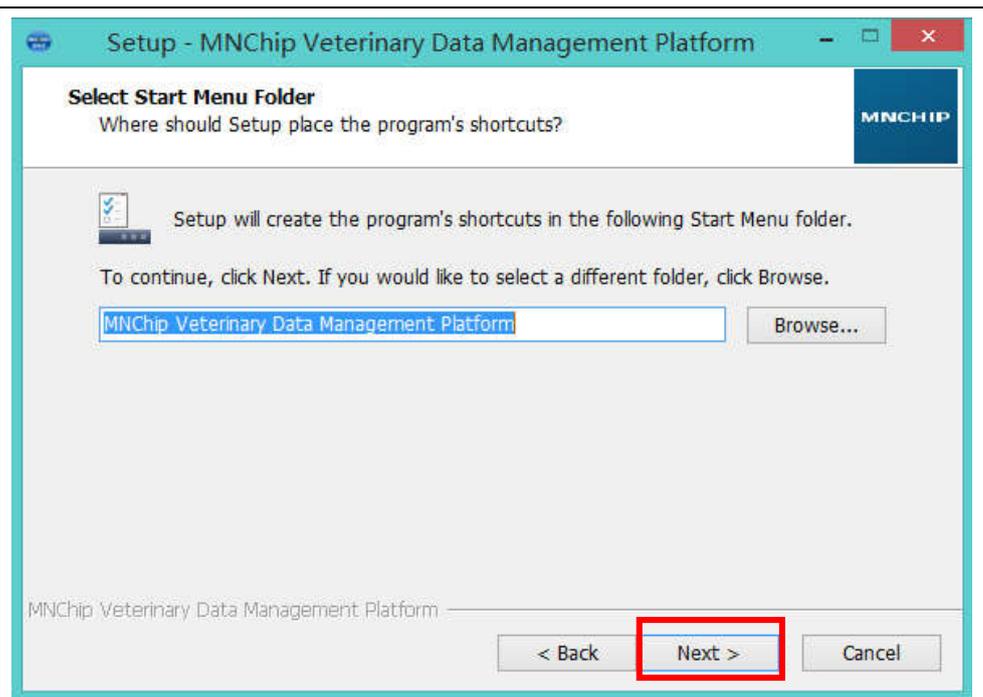
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Click “Next”;

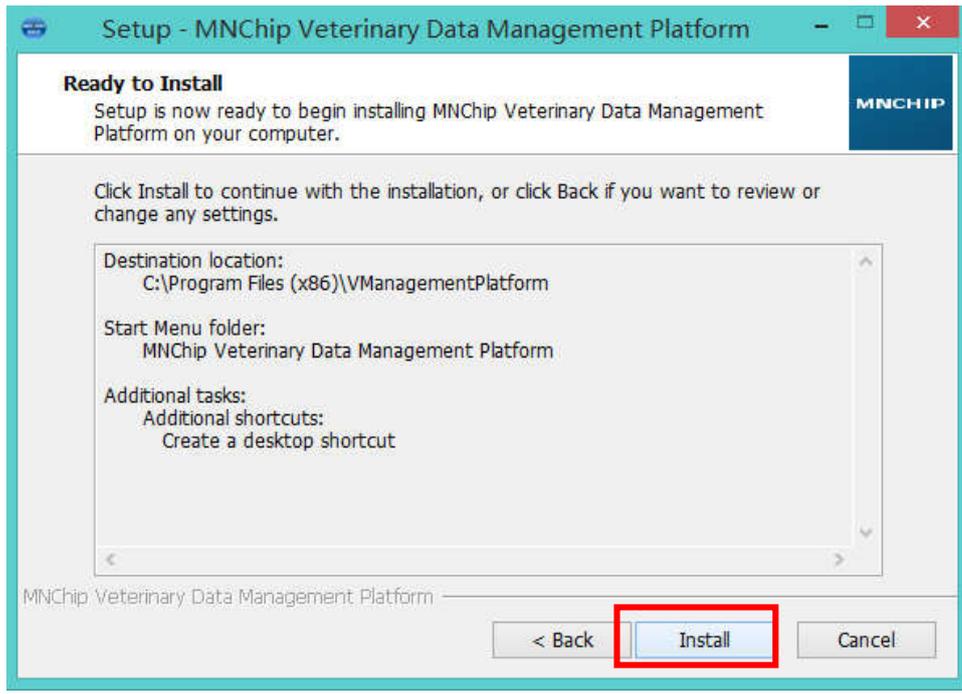
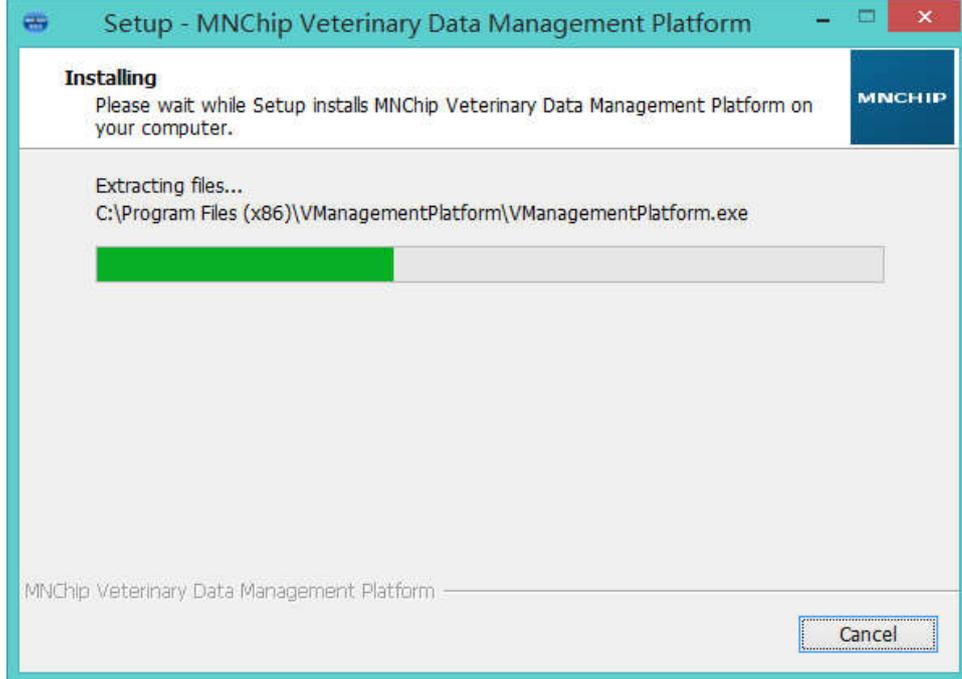


choose the installation path and click “Next” three times and then click “Install”;

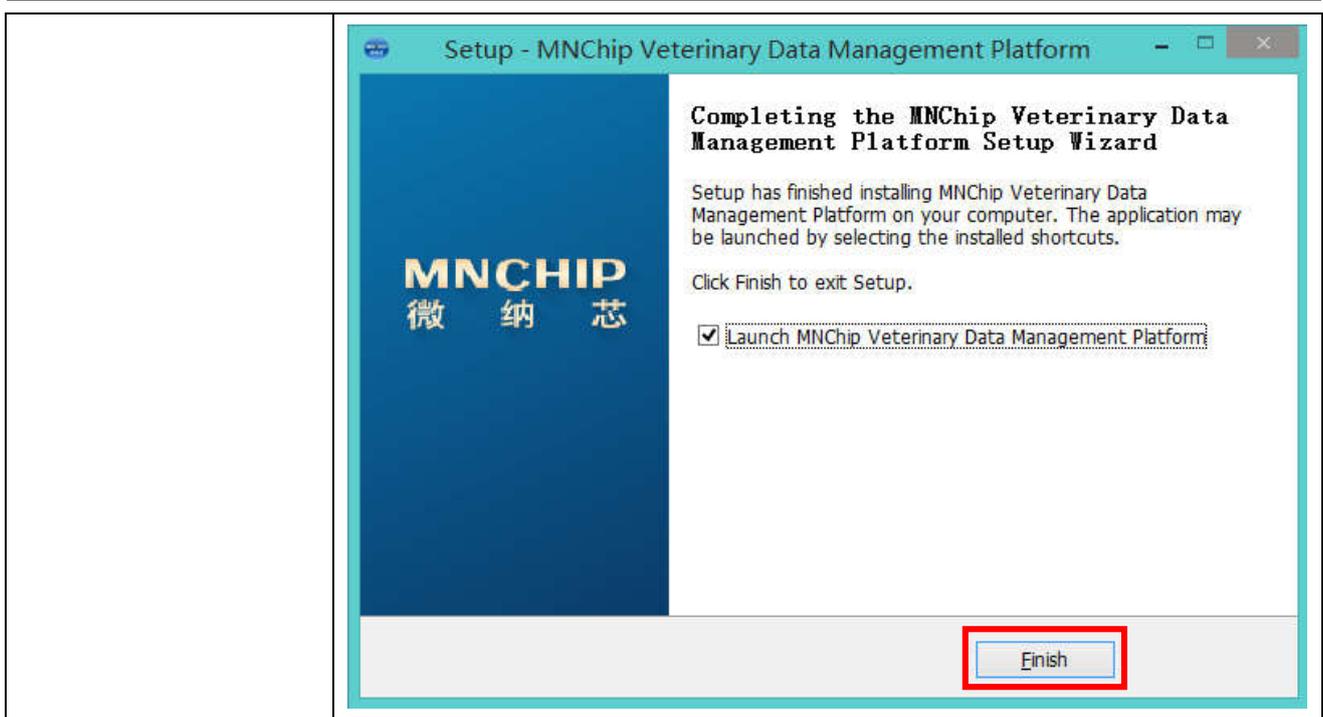




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<p>Wait for a few seconds until the completion of the installation and click <b>“Finish”</b>.</p>	

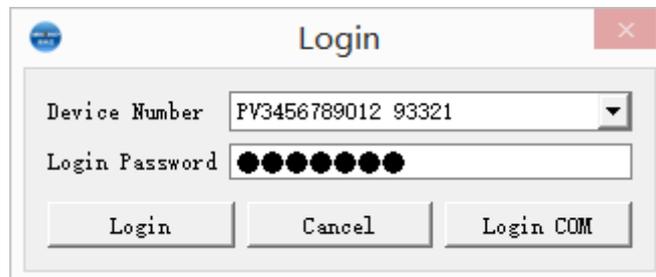
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## II . Software Settings

### 1. Login

Start the application to enter the "Login" interface:



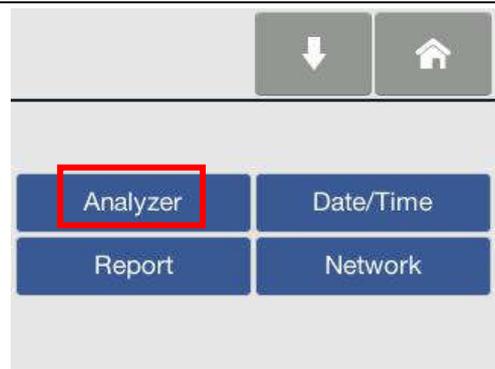
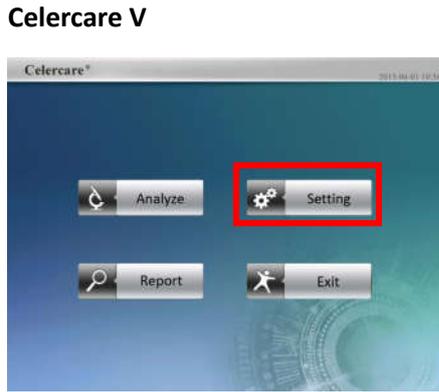
- a) If the analyzer is connected to the PC via the cable, please click the button "Login COM" directly.

**Note:** *Make sure that the analyzer is power off before connecting the cable, and start the analyzer when the cable is connected, otherwise the data management platform may not be able to receive the data.*

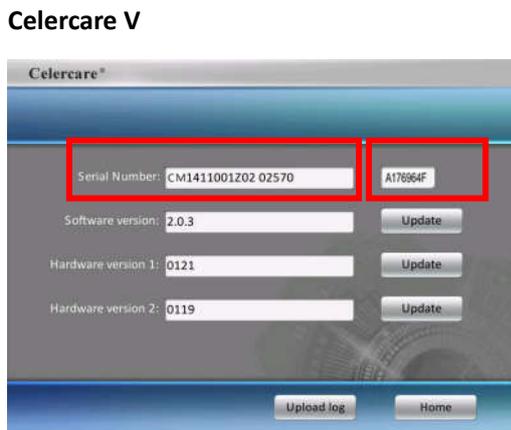
- b) The analyzer can transmit data to the cloud server via WIFI, and the data can be downloaded from the server to the local PC via MNChip Data Management Platform Software. To this end, ensure that all the data have been uploaded and the local PCs have been connected with the Internet.

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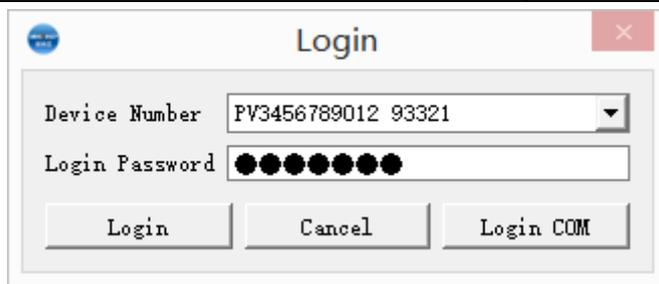
For initial use, tap the “Setting” or  on the touchscreen of the Analyzer;



And tap “Analyzer” to find the “Serial Number” and “Password”;



enter the “Serial Number” and “Login Password” into the above login page, and click the button “Login”

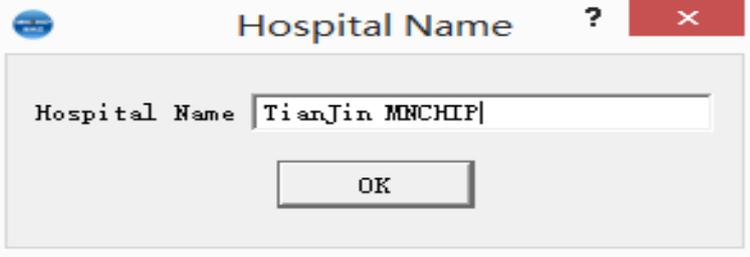
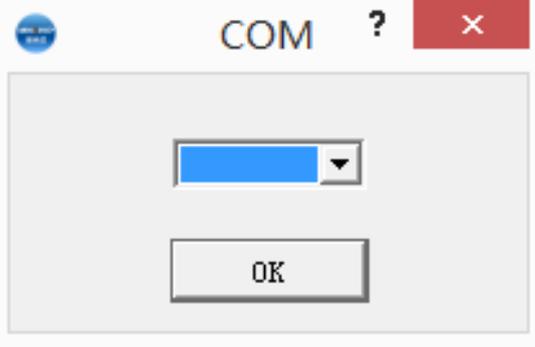
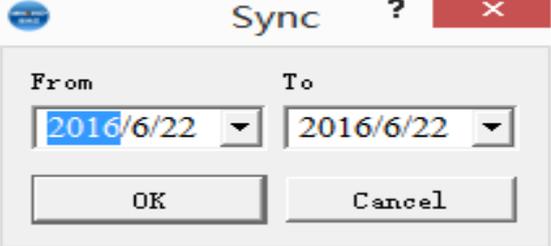
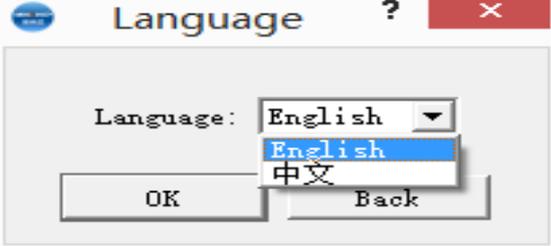


**Note:** i. Make sure that the local PC have been connected with the Internet .  
 ii. Make sure that the Analyzer has been connected with the Internet via WIFI, otherwise the “Login” page will not display.  
 iii. Except for the initial use, serial number and password input is not necessary.

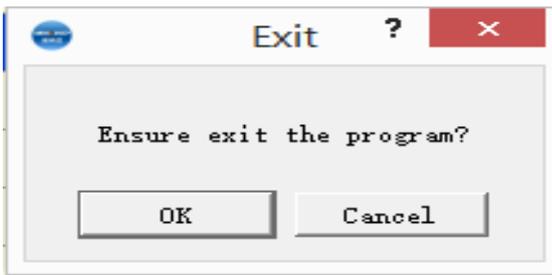
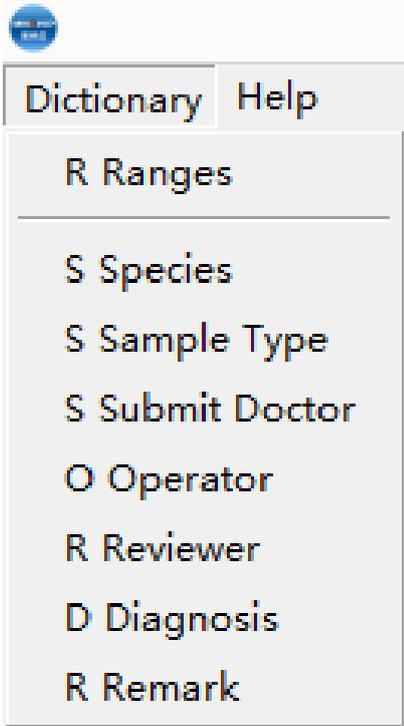
c) If not to continue, click "Cancel" to close the dialog box.

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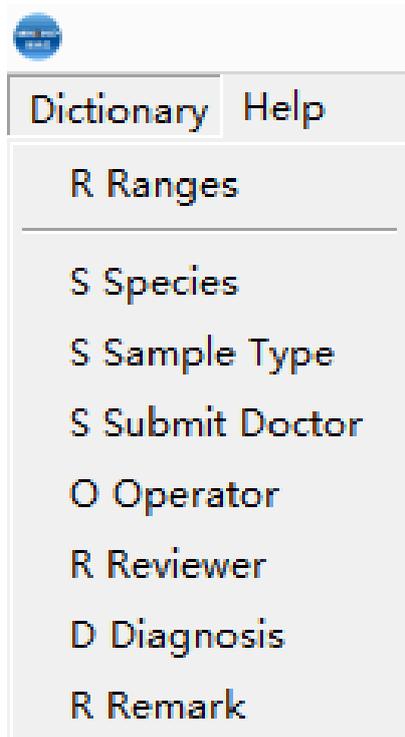
## 2. Main menu

	
a) Click <b>"Hospital"</b> to set the hospital name in the report.	
b) Click <b>"COM"</b> to choose the corresponding serial communication interface, the wrong interface will cause the failure of the data transmission.	
c) Click <b>"Sync"</b> to query the data from analyzer within the selected time. By default, the data management platform displays the intraday data.	 <p><i>Note: In general, once start the Software, the latest data will automatically be uploaded; if data transmission failure occurs, enter the data query page to find the data and upload it; and then synchronize the data once again.</i></p>
d) Click <b>"Language"</b> to choose <b>"English"</b> or <b>"中文"</b> .	

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e) Click “Exit” to exit the application.	
f) Click “Dictionary”, and check the next part “3. Dictionary Settings” to learn more.	
g) Click “Help” to find the version information of the software as well as our company’s information.	

## 3. Dictionary Settings



In order to edit the report easily, all items in the “Dictionary” can be preset as required.

a) Ranges	Modification	<p>Modify reference ranges as required. Choose items which need to be modified, double-click the table, set the values, and click “<b>Save</b>” to finish reference ranges modification.</p>
	Addition	<p>Add reference ranges as required. Click “<b>Add</b>”, select “<b>Sex</b>”, edit “<b>Age Upper/Lower Limit</b>” and “<b>Ranges Upper/Lower Limit</b>”, and click “<b>Save</b>” to finish the setting.</p>

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## b) Species

“Add” or “Remove” “Species” as required, and click “Save” to finish the setting.

	Species	Memonic
1	Sheep	Sheep
2	Horse	Horse
3	Cow	Cow
4	Ox	Ox
5	Rabbit	Rabbit
6	Pig	Pig
7	Mouse	Mouse
8	Dog	Dog
9	Cat	Cat
10	Elephant	Ele

Buttons: Add, Remove, Save, Cancel, Exit

## c) Sample Type

“Add” or “Remove” “Sample Type” as required, and click “Save” to finish the setting. The three initial types are “Serum”, “Plasma” and “Whole Blood”.

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	Sample Type	Memonic
1	Serum	S
2	Plasma	P
3	WholeBlood	W

Buttons: Add, Remove, Save, Cancel, Exit

d) **Submit doctor, Operator, and Reviewer**

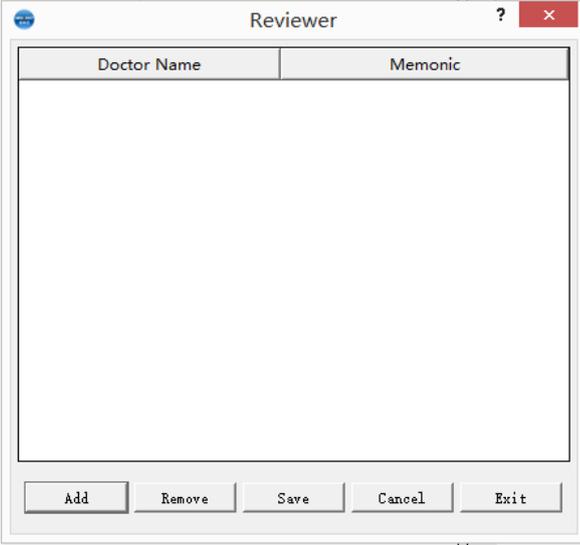
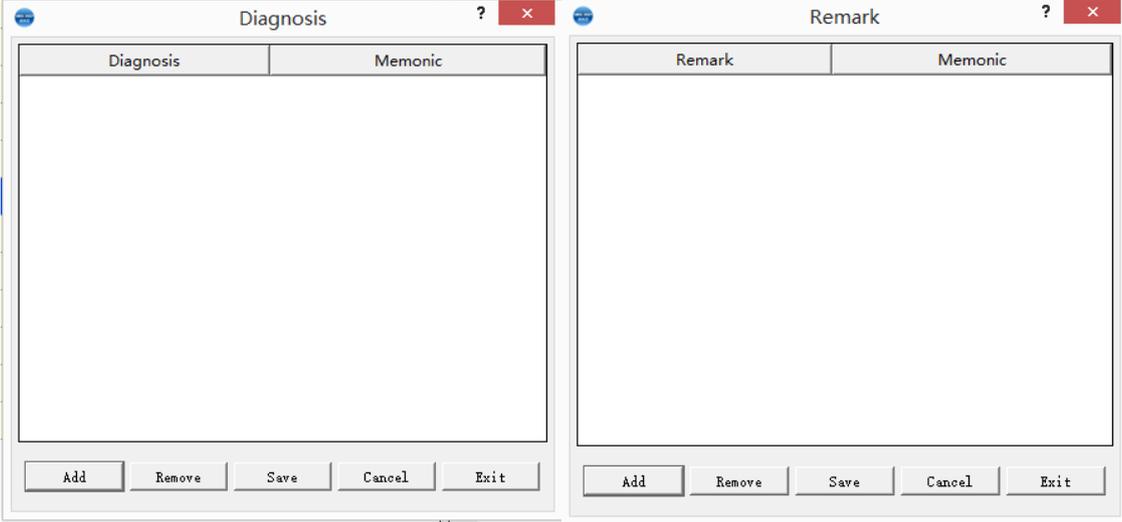
“Add” the doctors’ name as required, and click “Save” to finish the setting. After setting the names of the doctors, it will be very convenient when editing the report.

Doctor Name	Memonic
-------------	---------

Buttons: Add, Remove, Save, Cancel, Exit

Doctor Name	Memonic
-------------	---------

Buttons: Add, Remove, Save, Cancel, Exit

	
<p>e) <b>Diagnosis is, Remark</b></p>	<p>“<b>Add</b>” some clinical diagnoses as required, and click “<b>Save</b>” to finish the setting, it will be very convenient when editing the report.</p> 
<p><b>Note:</b> The abnormal status (“lipemia”, “icterus” and “hemolysis”) of the sample will show in the remark column, and correspondingly the background color of the sample information will be red.</p>	

## 4. Print Settings

<p><b>Search</b></p>	<p>The data management platform supports some keywords query on the local database, such as <b>Analysis Date, Owner Name, Pet Name, Pet Species</b> and <b>ID</b>.</p>
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# MNCHIP

Search

Analysis Date  To

Owner Name  Pet Name

Pet Species  ID

Click "Display All" to display all of the reports in the database if needed.

Print Whole
  Clinical significance

**Paper Select** Three printing formats can be chosen, which are **A5 vertical**, **A5 longitudinal** and **A4**.

Paper Select

A5 vertical print
  A5 longitudinal print
  A4 print

## III. Report Editing and Printing

1. Selecting the Report to be edited or printed as the following screen shot shows:

8		Female		1	2016-04-14 09:30
9		Male		2	2016-04-12 09:33
10		Female		1	2016-04-12 09:13
11		Female		MNC1	2016-04-08 14:27
12		Female	3	3	2016-04-08 14:00
13		Female	2	2	2016-04-08 13:44
14		Female	1	1	2016-04-08 13:31

Notes: ① If it is necessary to synchronize the previous test reports, click "Sync", set the date and click "OK";

② If it is required to edit or print the test reports which have been synchronized onto the database, please refer to "Print Setting", find the test report needed to be edited and printed.

2. Report Editing

a) Edit the Inspection Information

Select one test result and edit "ID", "Pet Name", "Owner Name", "Pet Gender" and

“Pet Age” in the corresponding text box. Other information, such as “Pet Species”, “Department”, “Sample Type”, “Submit Doctor”, “Reviewer” and “Operator” can be edited in the text box directly or chosen from the items in the pop-up dialog by double clicking the text box. Click “Save” when the editing is completed.

Inspection Info	
Analysis Date	2016/07/20
Pet Species	
ID	
Pet Name	
Owner Name	
Pet Gender	
Pet Age	
Sample Type	
Submit Doctor	
Submit Time	2016/07/20 10:36
Operator	
Reviewer	
Diagnosis	
Remark	

## b) Modifying the Test Results

The abnormal states (“lipemia”, “icterus” and “hemolysis”) of the sample and some other factors may affect the test results, the results can be modified by double clicking the text box. Click “Save” when the editing is completed.

# MNCHIP

	Item	Result	Ranges	Unit
1	<input checked="" type="checkbox"/> TP	62.1	60 -- 83	g/L
2	<input checked="" type="checkbox"/> ALB	41.2	35 -- 55	g/L
3	<input checked="" type="checkbox"/> GLO	20.9	20 -- 40	g/L
4	<input checked="" type="checkbox"/> A/G	2	1.2 -- 2.4	
5	<input checked="" type="checkbox"/> TBIL	34.7	0 -- 17.1	umol/L
6	<input checked="" type="checkbox"/> ALT	41	0 -- 35	U/L
7	<input checked="" type="checkbox"/> UREA	7.78	2.9 -- 8.2	mmol/L
8	<input checked="" type="checkbox"/> CRE	122	25 -- 60	umol/L
9	<input checked="" type="checkbox"/> GLU	5.89	3.89 -- 6.11	mmol/L
10	<input checked="" type="checkbox"/> UA	332	89 -- 357	umol/L
11	<input checked="" type="checkbox"/> TG	1.21	0.38 -- 1.7	mmol/L
12	<input checked="" type="checkbox"/> CHOL	3.33	2.4 -- 5.2	mmol/L
13	<input checked="" type="checkbox"/> HDL-C	1.42	1.16 -- 1.55	mmol/L
14	<input checked="" type="checkbox"/> LDL-C	1.4	0 -- 3.12	mmol/L

### c) Indicative Meaning of the Background Colors of Test Items

If the test result is in the ranges, its background color is **Yellow**;

If the test result is higher than the maximum of ranges, its background color is **Red**;

If the test result is lower than the minimum of the ranges, its background color is **Blue**.

	Item	Result	Ranges	Unit
1	<input checked="" type="checkbox"/> TP	60.2	60 -- 83	g/L
2	<input checked="" type="checkbox"/> ALB	41.7	35 -- 55	g/L
3	<input checked="" type="checkbox"/> GLO	18.5	20 -- 40	g/L
4	<input checked="" type="checkbox"/> A/G	2.3	1.2 -- 2.4	
5	<input checked="" type="checkbox"/> TBIL	31.1	0 -- 17.1	umol/L

### 3. Report printing

Choose the test report and click "Preview" to check

<input type="button" value="Save"/>	<input type="button" value="Display All"/>	<input type="button" value="Print (F2)"/>	<input type="button" value="Preview (V)"/>	<input type="checkbox"/> Print Whole	<input type="checkbox"/> Clinical significance
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# MNCHIP

the report.

**Notes: When you choose to print the test report with clinical significance, the paper select will be A4 by default.**

And the preview page will be shown as the following screen shot shows; after confirmation, click "**Print**".

**TianJin MNCHIP**  
**Biochemical Inspection Report**

Name:                      Sex: Female                      Age:                      Years                      Sample Type: 全血

ID: 1                      Department: 内科                      Patient Type: 门诊                      Bed:

Clinical Diagnosis:

Item Name	Result	Indicator	Ranges	Unit
TP	60.2		60 -- 83	g/L
ALB	41.7		35 -- 55	g/L
GLO	18.5	↓	20 -- 40	g/L
A/G	2.3		1.2 -- 2.4	
TBIL	31.1	↑	0 -- 17.1	umol/L
ALT	30		0 -- 35	U/L
UREA	6.91		2.9 -- 8.2	mmol/L
CRE	50		25 -- 60	umol/L
GLU	6.01		3.89 -- 6.11	mmol/L
UA	408	↑	89 -- 357	umol/L
TG	1.12		0.38 -- 1.7	mmol/L
CHOL	3.52		2.4 -- 5.2	mmol/L
HDL-C	1.45		1.16 -- 1.55	mmol/L
LDL-C	1.6		0 -- 3.12	mmol/L

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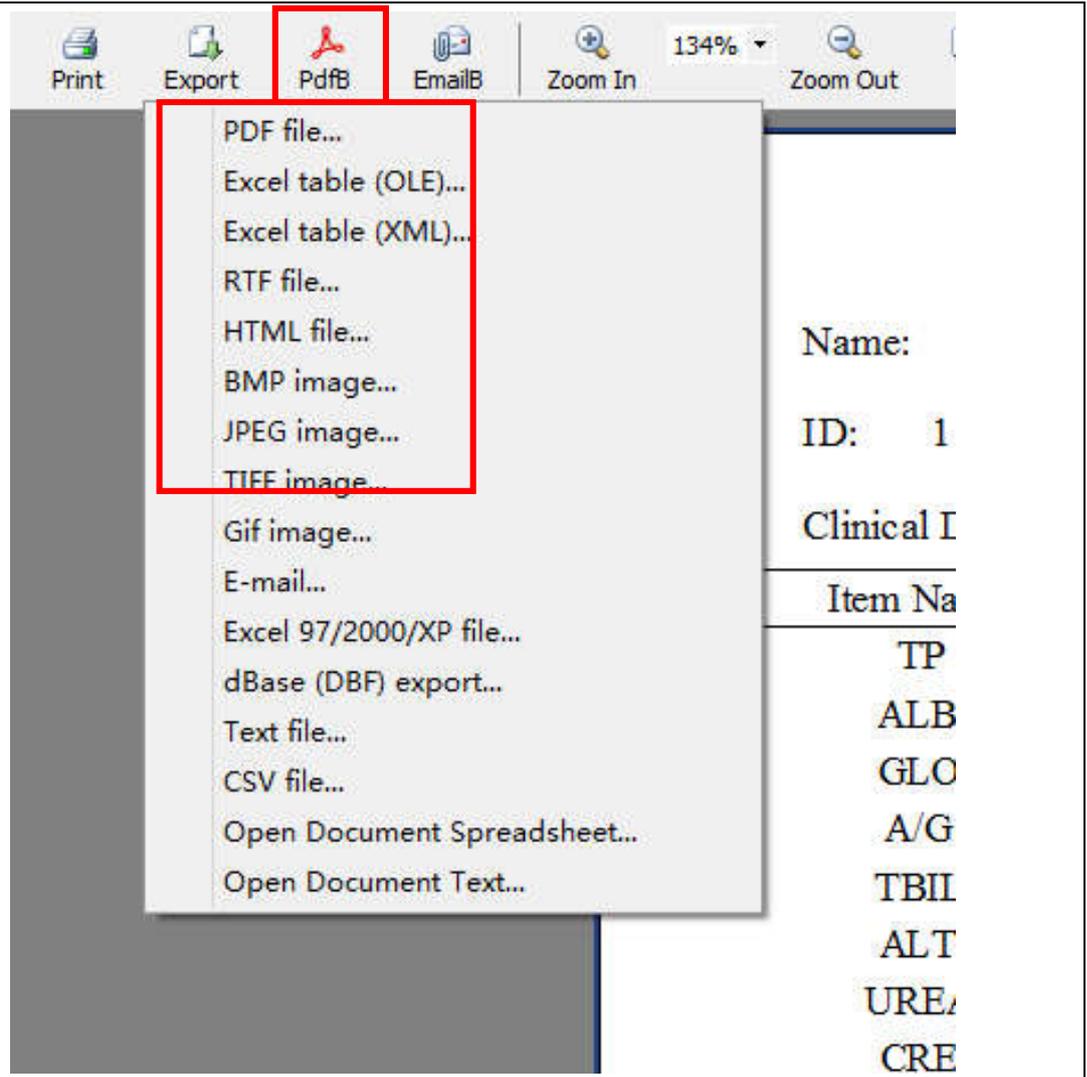
Submit Datetime:                      Analysis Datetime: 2016-04-14 09:30                      Print Datetime: 2016-06-23 10:24

Submit Doctor:                      Operator:                      Reviewer:

Remark: ..... *The result is only responsible for this sample.*

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**Notes:** You can export the test report in multiple formats as required, such as PDF, OLE/XML table, RTF, HTML as well as BMP/JPEG/TIFF/GIF image, and email it to others.



## IV. Failure Recovery

If the test reports of chemistry analyzer cannot be synchronized onto the Data Management Platform, please troubleshoot the software according to the following steps:

### 1. The software needs to be upgraded

Start the chemistry analyzer, tap “Settings”-“Network” and connect with the WIFI successfully; and back to “Settings”, tap “Analyzer”-“Software version”-“Update” to upgrade the software to the latest version.

**Notes:** It is normal that the analyzer will restart once the completion of the software upgradation.

2. Make sure that the data line is properly linked with the connection interface and restart the analyzer and the software via cable communication; make sure that the local PC has been connected with the Internet and the date has been uploaded when via wireless communication.

## V. About MNChip

1. Please visit the official website of Tianjin MNChip [www.mnchip.com](http://www.mnchip.com) to learn more about our company.

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2. Do not hesitate to contact us via the toll-free customer-service Tel Number: 400-806-1151 for 7/24 service if you encounter problems when using our Chemistry Analyzer.