bowket

Magic Mirror-Skin Analysis System

User Guide
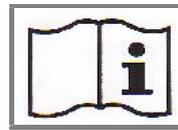
Contents

Operating Manual

bowket

I. Structure of Magic Mirror

I -1. General Structur

| Pillar for for ehead |

| UV light |

| Main Body |

| Camera Syste |

| tray for chin |

| On/off switch |

| Power supply socket |

| Lan line socket, connect equipment with computer by lan
line through this socket |

I -2. Description of necessary accessories

- 12V Switch Power Supply

- 5V Switch Power Supply

- Ballast cable

- Power Supply

• Lan-line ·connect

Magic Mirror with computer

• Software CD

II. Hardware Connection & Software Installation

II-1 Software Installation

1). Take out the CD from the box, and insert the CD into

CD-Driver of computer and open it, double click the icon

then "NEXT" till finished installation.

Attention: never change the path during the installation, just click "NEXT" till complete. See Figure2-3, Figure2-4, Figure2-5.

After finish installation, then you will found an icon in your desktop of computer.
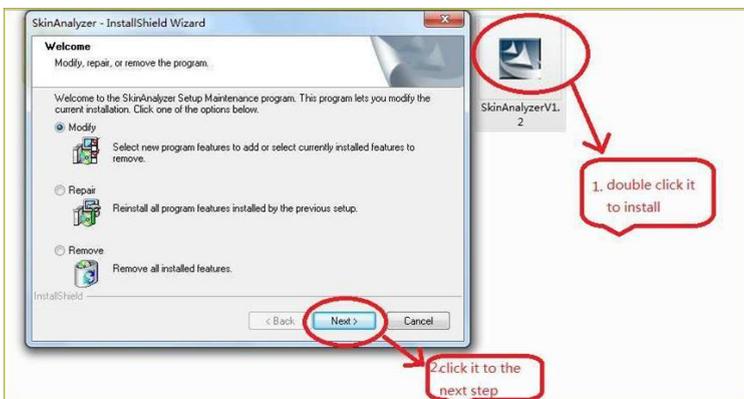
Figure   2-3

Notice! Please don't change the

path during   installation!

Figure   2-4

5
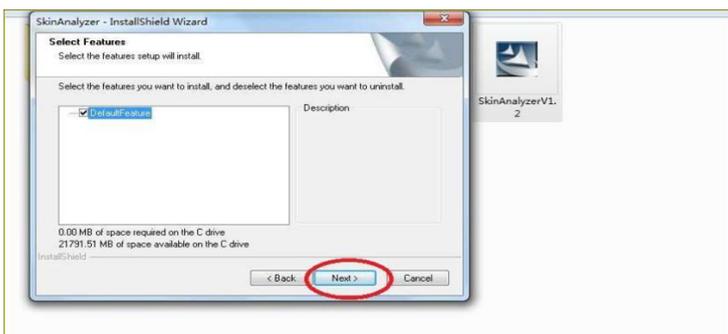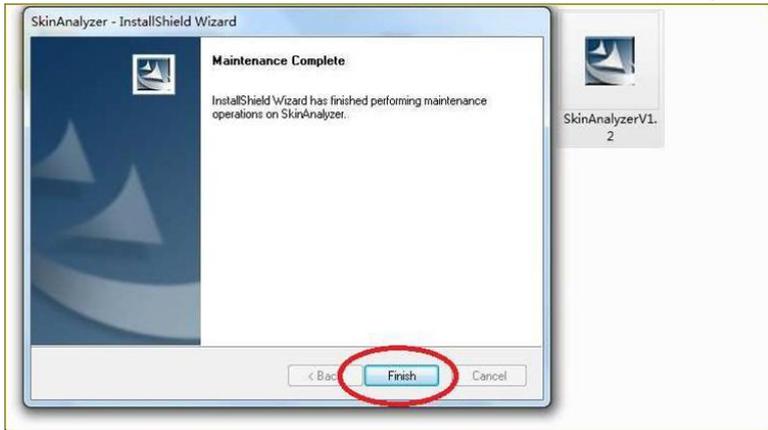
Figure 2-5

2).Install the ACCESS database

Double click the icon click "NEXT" till completed.

Note: If your computer already has Office software, then you no need to install ACCESS 2003.

Important!!! When install software, please close all the anti-virus software. Our software
will not bring any damage to your computer, you don't need worry about it. But anti-virus will regard it as virus, if not close, then software will be damaged and machine cannot be used.

II-2 Hardware Connection

Magic Mirror uses the web camera to collect photo, so connection is very simple, we can use the following 2 ways:

Figure 2-1
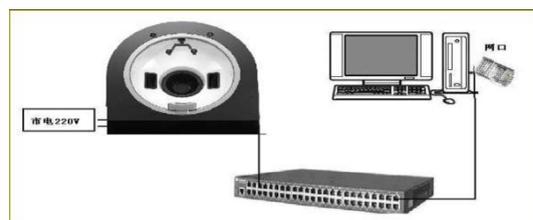
Figure 2-2

1) **See figure 2-1, use the Lan-line to connect computer and Magic-mirror.**

2) **See figure 2-2 Using router/switch/concentrator as transit hole.**

Note: Magic Mirror Skin Analyzer is now only compatible with WinXP and Win7 Software, so make sure your computer meets the requirement. But we will update according to market need.

II-3 IP Address Changing

After finish installing software, ACCESS 2003 Database, connect machine and computer with Lan-line successfully, then we go to change IP address.

For Win XP, do as following：Network Neighborhood (right click) → Attribute (Left click)→ Local Connection(right click) → Attribute → TCP/IP (choose it) → Attribute→ Appear a TCP/IP Attribute window→ Using Following IP address（change IP address to 192.168.2.10; Subnet Mask to 255.
255.255.0; Default gateway: 192.168.2.1）

For Win7, do as following: Computer (click it one your desktop) → Network→ Network and Share Center→ Local Connection→ Attribute → TCP/IPv4→ Attribute→ Using following IP Address
（change IP address to 192.168.2.10; Subnet Mask to 255. 255.255.0; Default gateway:
192.168.2.1）

Notice! 1) Make sure the system of your computer is XP and Windows7.
2) Please change the IP address under Local Connection.

Note：The size of LCD display for computer prefers to be 19inch, and resolution:

1280*800.

III. Operation Index

III-1. Entering

Double click the icon [SkinAnal.] and enter into system（see figure 3-1），

input user and password, and press "Enter" button, enter into skin analyzer window (see figure 3-2). The defaulted operator is "admin", password is"1234", then choose the right language.

Notice! When choose language, first choose the language we want, then Exit, and then enter into system again

Figure 3-1

III-2. Client Information Management

Enter into registration window（See figure 3-2）
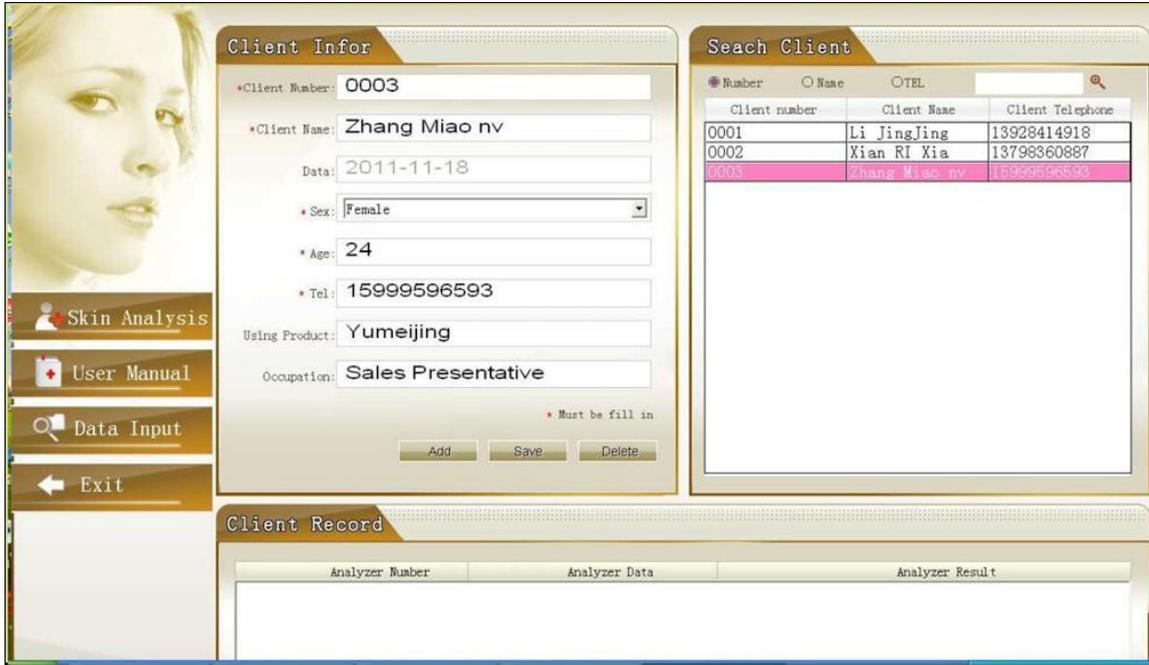
Figure 3-2

2.1 Add Client

Single click "Add" button to clear the info column, and then fill out the clients information, click "SAVE" , then you will see the right database of clients information, see steps:

Tips for Add Client
A)" Client Number、Gender/Sex、Client name、 " Age" , "   TEL") are necessary items, must fill out.

B) The client number MUST be 4 or more than 4 numbers, (for example: 0001)
C) Age: scope shall 1~100
D) TEL# shall fill out more than 3 numbers.

2.2 Delete Client

In the right side of interface: database, search the client's name and pitch up by click the left button of mouse, then click " DELETE"   button, the client will be deleted completely.

2.3 Change the Client Info

In the right side interface: database, search the client name and pitch up by click the left button of mouse, then you can change the information freely, after changed, shall press" SAVE" button. See figure 3-2 above：

2.4 Search Clients

There are 4 kinds way for search：

1）Client number   2）Client name   3）Tel.   4) By eyes
Choose one way in the database, and fill out the name or number etc, then click " SEARCH".
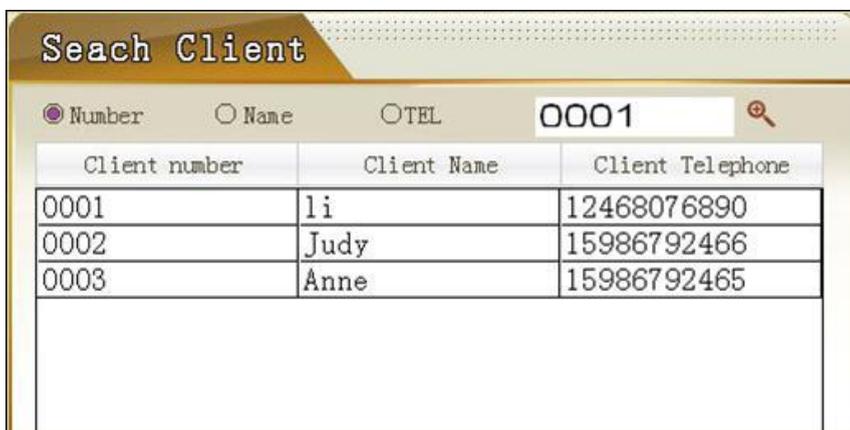
Figure 3-3

III-3. Operator Account Information Management

Use administrator account to enter into system（see figure3-2）click "Data Input"，then go to "Operator" (see figure3-3)

3.1 Add Operator
Based on the situation to fill out " Name", " Password", confirm " Password", then click " Add".

3.2 Delete Operator

Choose the operator you want to remove, and then click " Delete" .
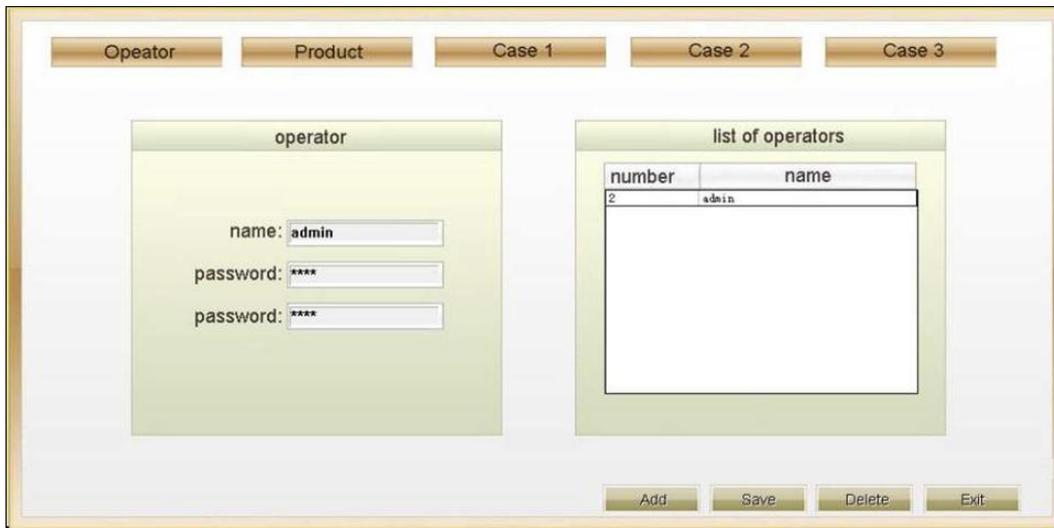
Figure 3-4

3.3 Change Operator

Choose the operator you want to change, and then according to the situation to change the name, password and confirm password, and then press " SAVE" .

3.4 Operator Authority Management

Only administrator account can add, delete and change branch operator's authority and add and delete products and suggested treatments. （Note：Pease not change administrator's name and password, it is system defaulted administrator, we cannot change.
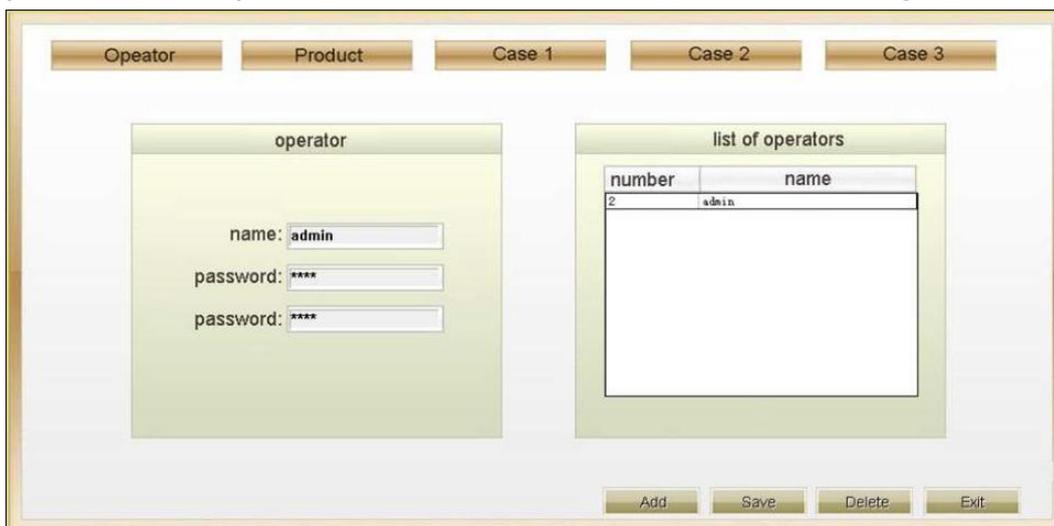
Figure 3-5

III-4. Product Management

Use the admin account enter into the main window, (see figure 3-2), click " Data Input" and " Product" (see figure 3-4)

4.1 Add Products

Click " ADD" to clear the column and then fill out the product name, effective, usage and cost, and then press " SAVE".

4.2 Delete Products

Choose the one that want to remove, click " Delete".

4.3 Change the Products

Choose the products which you want to change, then change the effect, usage, cost and press "SAVE".

NOTE : Product name CANNOT change, so when one product sold out or stopped production, it's impossible to directly change it to another product base on initial database, for example, if one day we have no No. 15 E-light treatment, then we cannot directly change No.15 to Diode Laser, we have to delete it and then click add to insert Diode Laser information.

III-5. Treatment Schedule Making

Use the admin account enter into system, see figure 3-2,and then use search function to find the client and pitch up, click" Data Input" to enter into Case 1, 2, 3 (See figure 3-5). In this window, you can change the initial operator name and password (you can change " admin" to what you want, can also change password 1234 to other. Also you can add operators, but please pay attention that sub-operators have no right to go to data input window. Only main operator can, which can avoid people to change product information optionally.

5.1 Add Products

Enter into suggestion(see figure 3-5), click " Add" and then the products list will come out(See figure 3-6) according to requirements to add products, choose products or delete products.
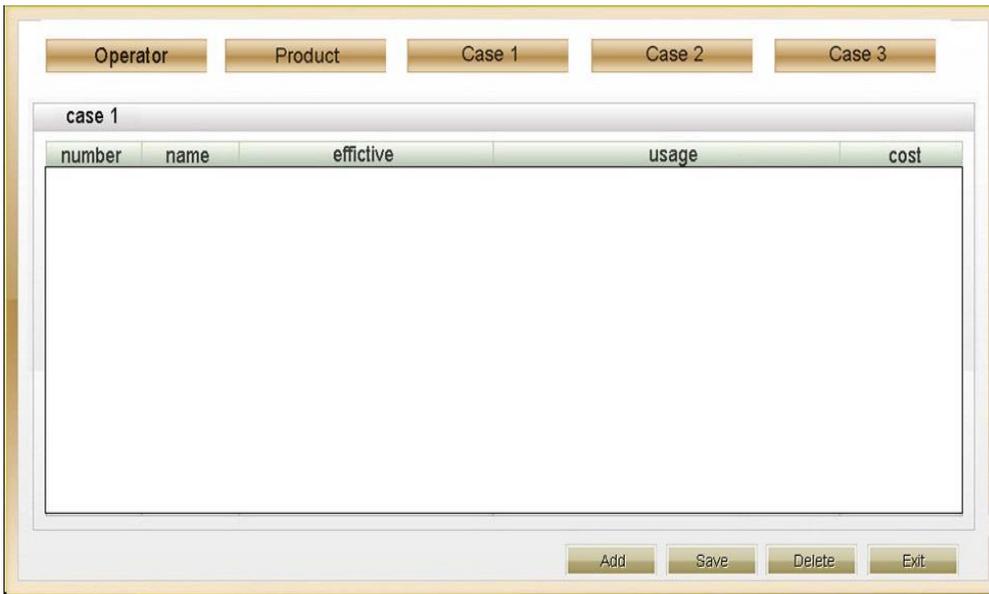
Figure 3-5

First click Case1, then all the products come out (See figure 3-6) , click the one you want, then it will add to Case1   (See figure 3-7)
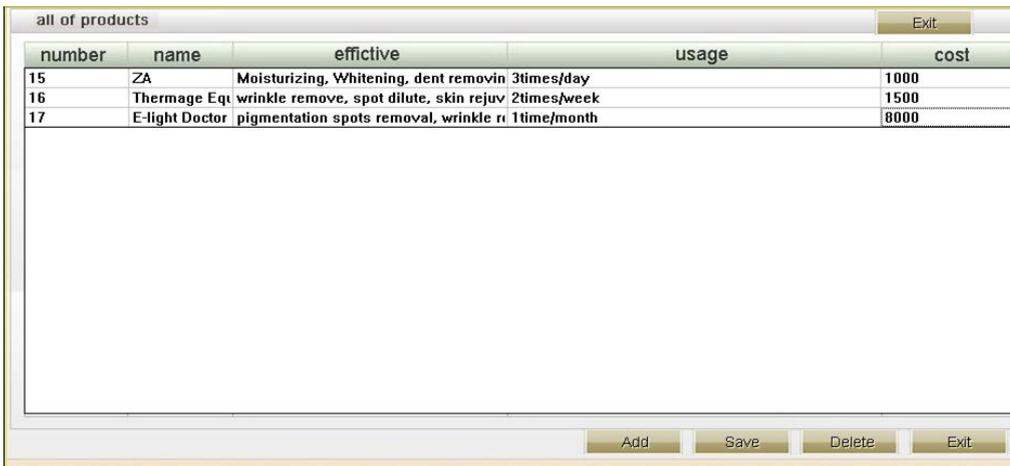
Figure 3-6
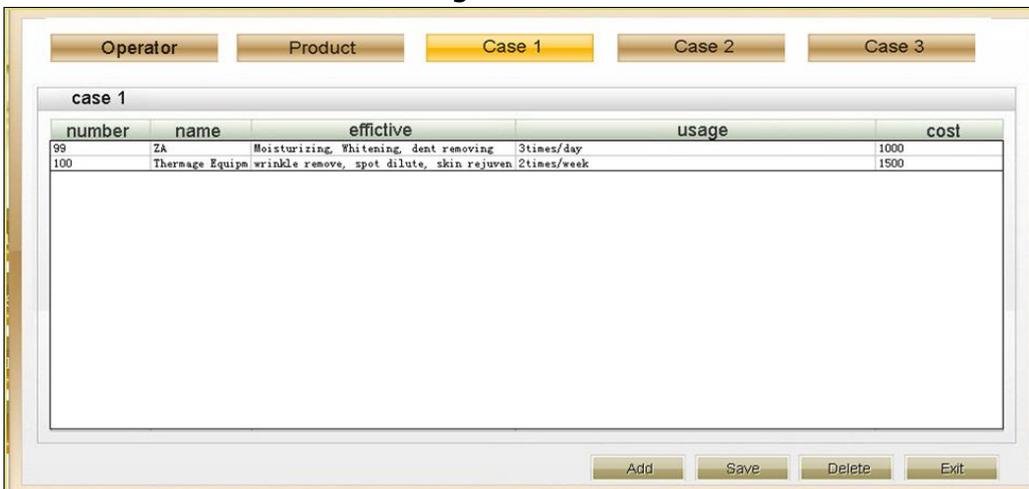
Figure 3-7

5.2 Delete Products

In the product list, choose one products and then press "Delete".

5.3 Treatment Schedule Suggestions

In this software, there have 3 pre-input suggestion treatments (See Figure 3-8)

Case 1: for the good skin (after analysis, system will generate a report with evaluation of our skin state by three level (good, normal, bad) (See figure 3-9)

Case 2: for the normal skin (For example in figure 3-9, customer's skin is normal, so treatment scheme which system generates from Case2)

Case 3: for the bad skin. (If customer's skin is bad, then will generate scheme from Case3) .
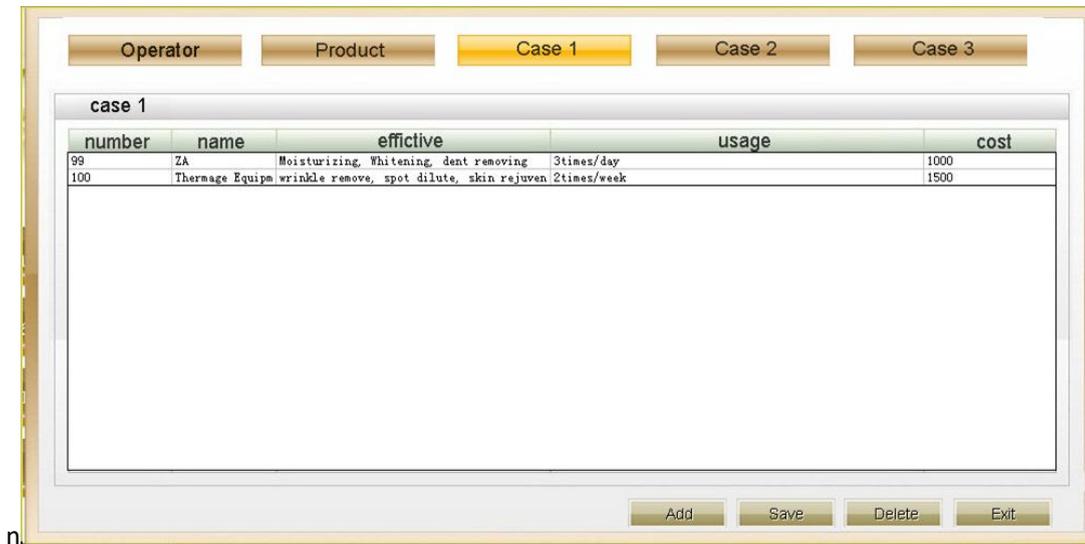
Figure 3-8
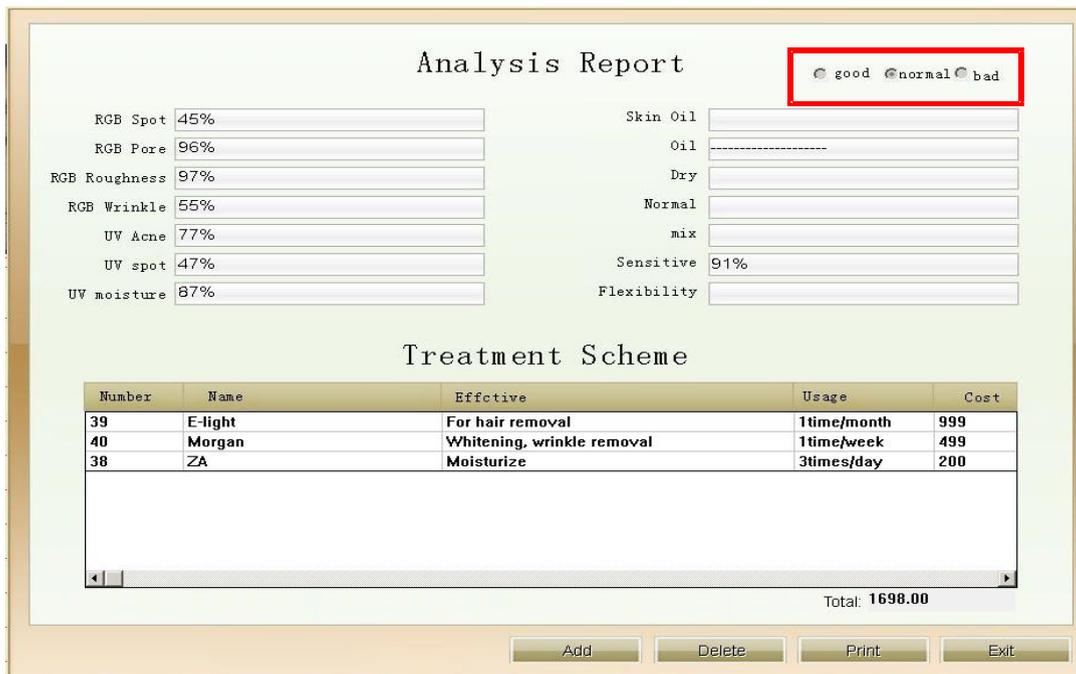
Figure 3-9

III-6. User Manual Management

Enter into system（See figure 3-10）press "user manual", will open the file to see. During operation, if there are any problems or questions, it will be convenient for us to find answers.

Notice! The user manual of Magic Mirror is in the software CD. Also when we log in, there is a User Manual at left side window, if you have problems during operation, you no need exit from software, Just choose User Manual.

Figure 3-10

III-7. Skin Analysis & Reports

Enter into main window（see figure3-10),press "Skin Analysis", go to shoot and analysis window, choose the client in the right box, when camera and computer connected failed, there will have an error tip (see figure3-11) ;If succeed, you will see the video preview in the right window.　(See figure 3-12)

Note: Please not go to Skin Analysis, if the light of machine is not off. When we first turn on machine, RGB light inside machine will be lit, several minutes later, light will go out. This period is for machine and computer to recognize each other, light becomes off, means they successfully recognize, we can go to Skin Analysis to detect.

when first turn on machine，
light will be lit

when light automatically off
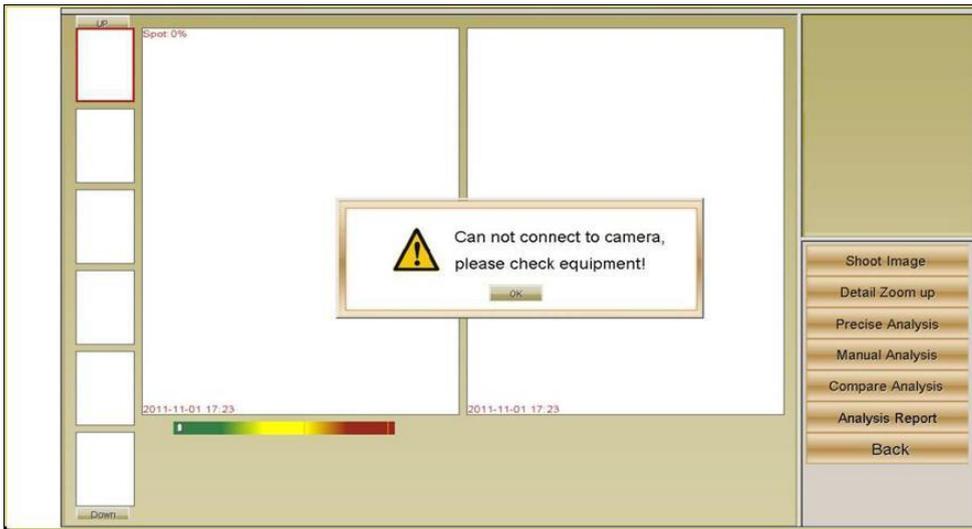
Figure 3-11
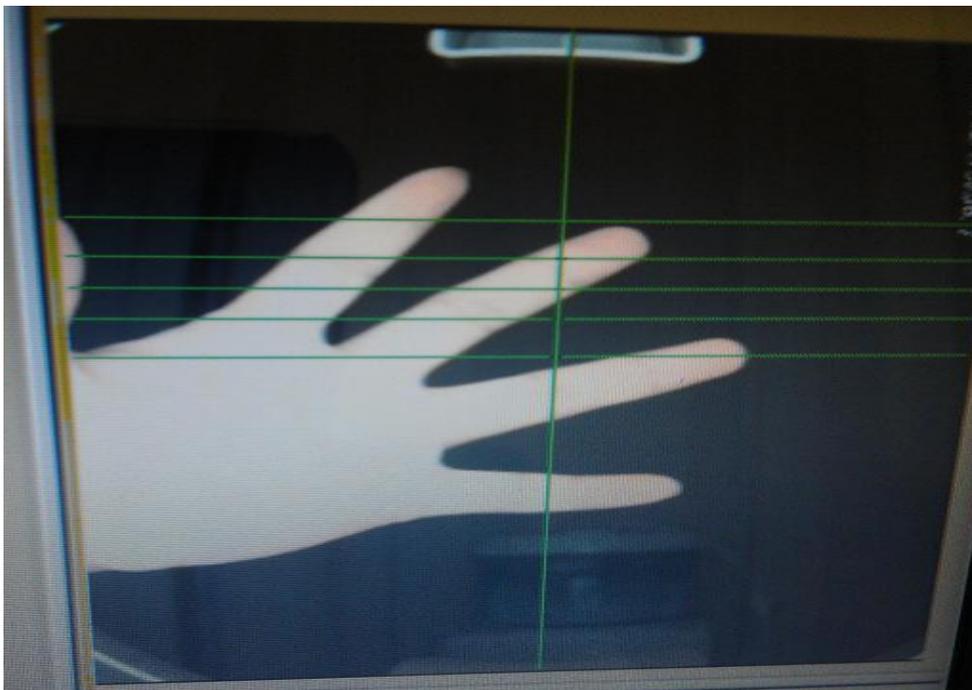
Figure 3-12

7.1 Shoot Image

Connected to camera successfully，ask the client to put the face into magic mirror scan area, and according to the requirements to choose photo's position（Left，Front，Right）(see figure 3-13) click shoot.

Figure 3-13

Figure 3-14

Note:

After we turn on the Magic Mirror, the light of it will be on, client can go to shoot after the light of Magic Mirror is off, and the client shall not move until 2 times flashes, then shoot finished. The image will appear on the left window. (See figure 3-14). And during shoot, customer should not move, put chin and forehead at right place, close eyes and sit still, not move and shake.

7.2 Start to Analysis

After taking photo, in RGB image to adjust the analysis area, we should avoid hair, eyebrow, eyes, nose, mouth and beard. After finish adjusting area, and then click " Precise Analysis" or " Manual Analysis" to start analysis and then provide a result to assess the quality of skin, the whole procedure need 2-3 minutes.

How to adjust Analysis Area? After picture shoot, we will see two pictures as below.
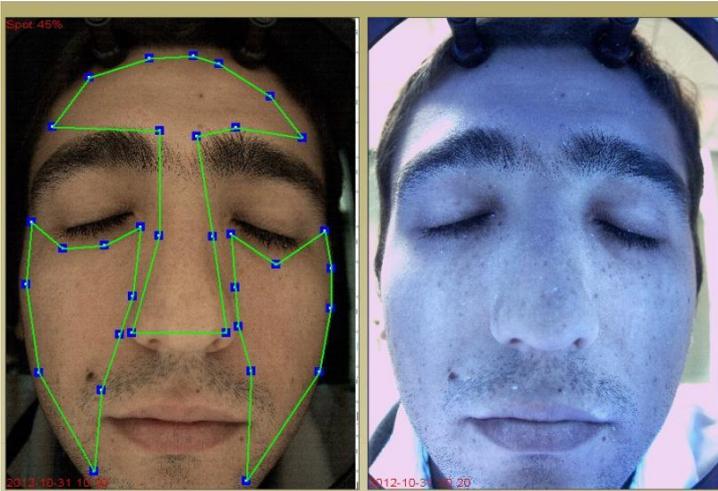
And left side picture will have green line circle with blue square you can adjust the green circle by blue square (like figure 3-7-1 to figure 3-7-2). If you want to move whole area(like figure 3-7-2 to figure 3-7-4), then click right and left together, then move to analysis area.
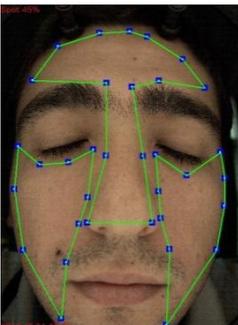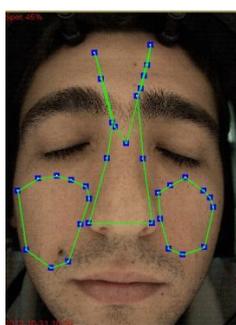
Figure 3-7-1   Figure 3-7-2   Figure 3-7-3   Figure3-7-4
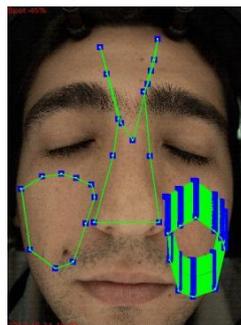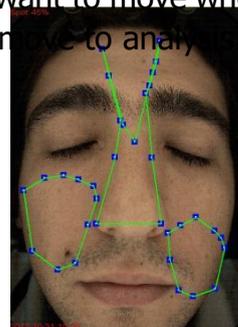
7.3 Check the Reports

After analysis finished, go to Analysis Report to see the whole report including all the problems.
See figure 3-15
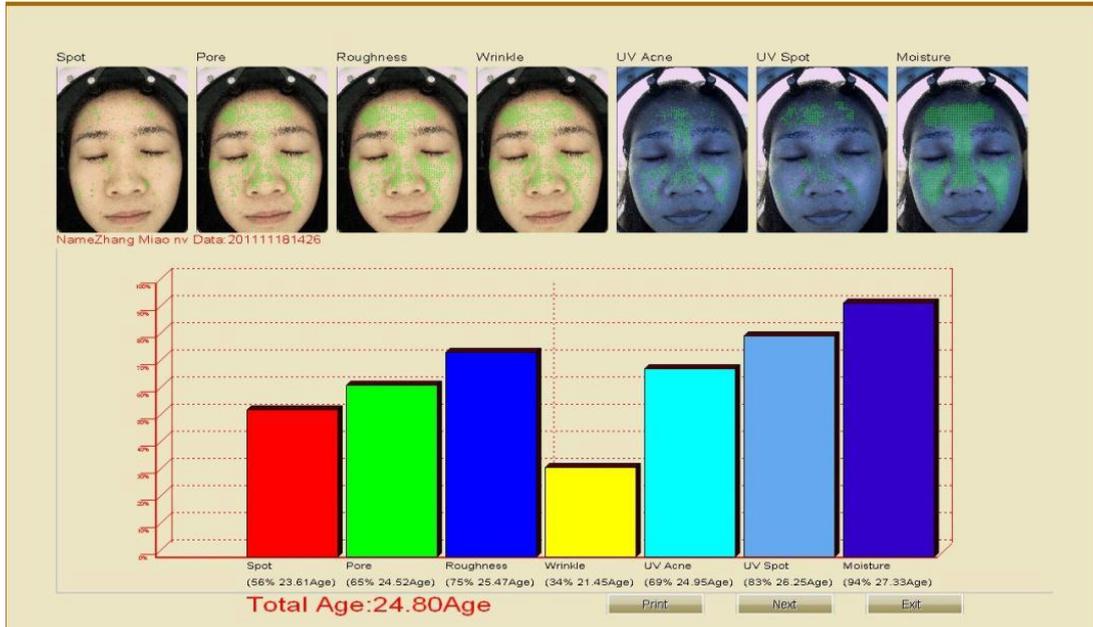
Figure 3-15

We can go to Precise Analysis to analyze every skin problem respectively (see Figure3-16) and go
to Manual Analysis to know the skin properties.

7.4 Details Magnify

There is a select window of " Detail Zoom Up" （See figure 3-17） which can make the
image
4times clear than normal one. First choose the skin problem we want to analysis in " Precise
Analysis", then back to choose Detail Zoom Up.
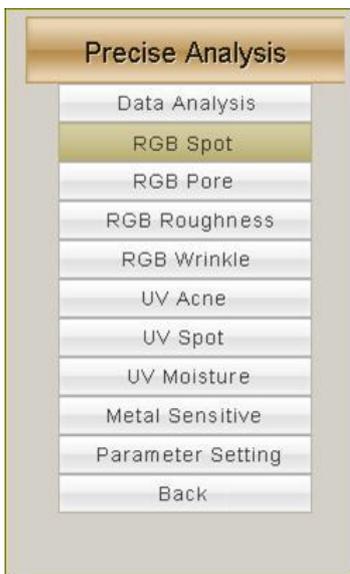
Figure 3-16

Figure 3-17

Put your mouse at left side picture and move, you can see whatever area you want.

Put mouse on this picture

A
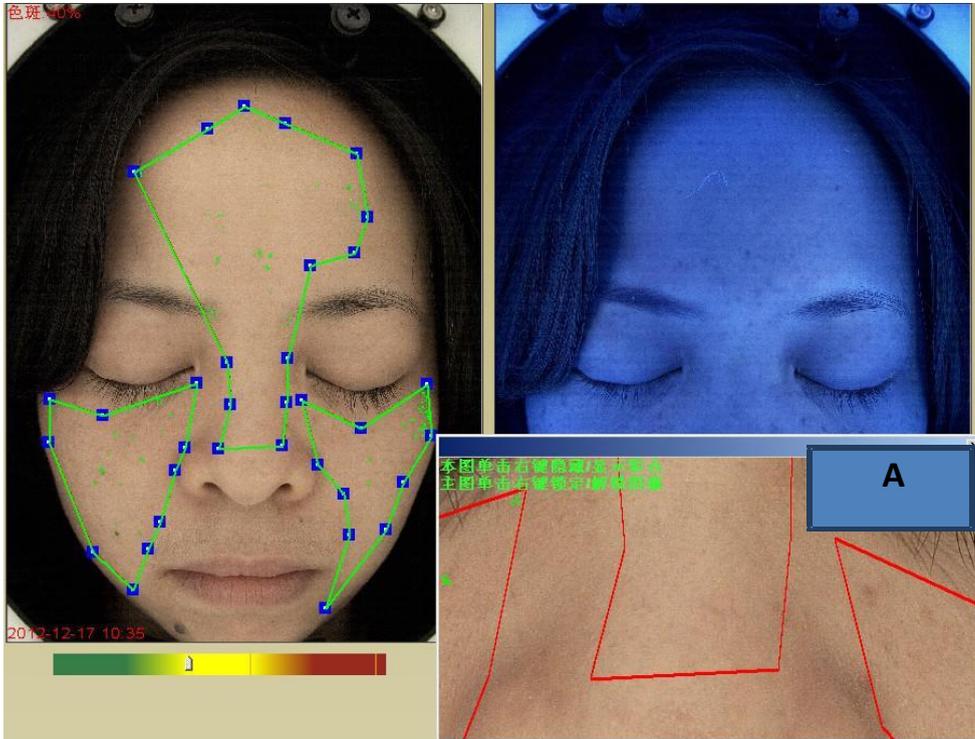
Right click mouse, then picture keeps still, move mouse to A and right click mouse, green spots and red line disappear, right click again, appear again.

Move mouse to RGB photo area, in magnify window, you can see the RGB photo get zoom up, and more clear, see figure 3-16. In the left photo, single click the right mouse to lock/unlock, in magnify window, click right mouse to hide/ show the points.
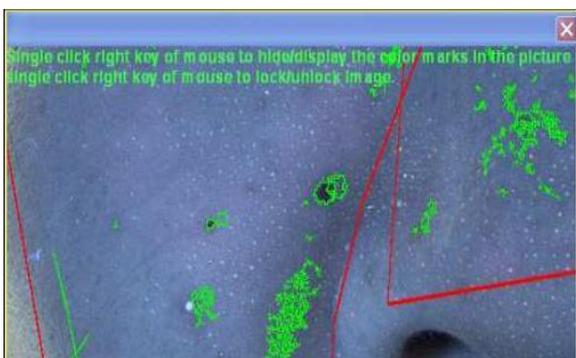
7.5 Analysis Parameter Setting

Analysis Parameter can adjust base on special of requirements. Go to Skin Analysis, then choose "Precise Analysis", at the bottom, there is a "Parameter Setting" (See figure 3-17).

Note：We suggest using the defaulted parameter, which is the most accurate figure.

7.6 Manual Analysis

In manual analysis, the skin has been split in several types: oily, dry, normal (middle) and mixed. Click " Manual analysis", if the qualitative analysis has been

finished, there will come out a window to remind you " if need re-analysis again", click " NO", then the result will come out automatically. If still not start qualitative analysis, shall click " YES" to start analysis, which need 2-3 minutes.

7.7 Comparison

1) Click " Compare analysis"   button, there will have a figure come out, see figure 3-18.

Figure 3-18

2) Then, in the left side, each photo have an accurate date and time, so you can know when you take the photos. And choose 2 photos: before and after.

3) Left click the RGB/UV photo to pitch up and the move the mouse to comparison area and left click again, then there will have 2 pictures fixed, lock them, press" analysis", and there will come out a compare result (see figure 3-19).

When we go to comparison, If before and after photos, one of them doesn't finish analysis, there will come out a window to warning if need analysis and then go to comparison, shall click " YES"   and after finish it then go to comparison.

Notice! Comparison cannot be made between RGB photo and UV photo.
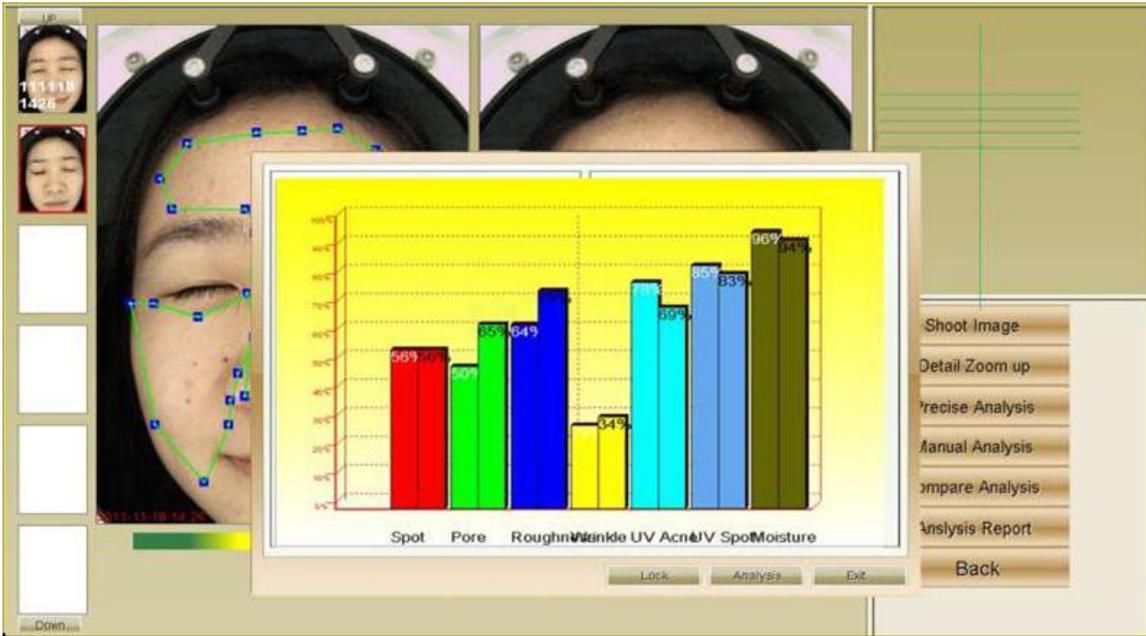
Figure 3-19

7.8 Delete Photo

During shooting ，when the photo is not good, we shall delete（ see figure 3-20). How to do: choose the photo, and right click ---Delete

7.9 Go to Treatment Schedule

After analysis and checking reports, then we go to treatment schedule to give clients a treatment suggestion based on their concrete situation. First go to Analysis Report, click it,

Go to the whole report. See figure 3-21, and then click" Next" to go to suggestion treatment to improve these problems. See Figure 3-22
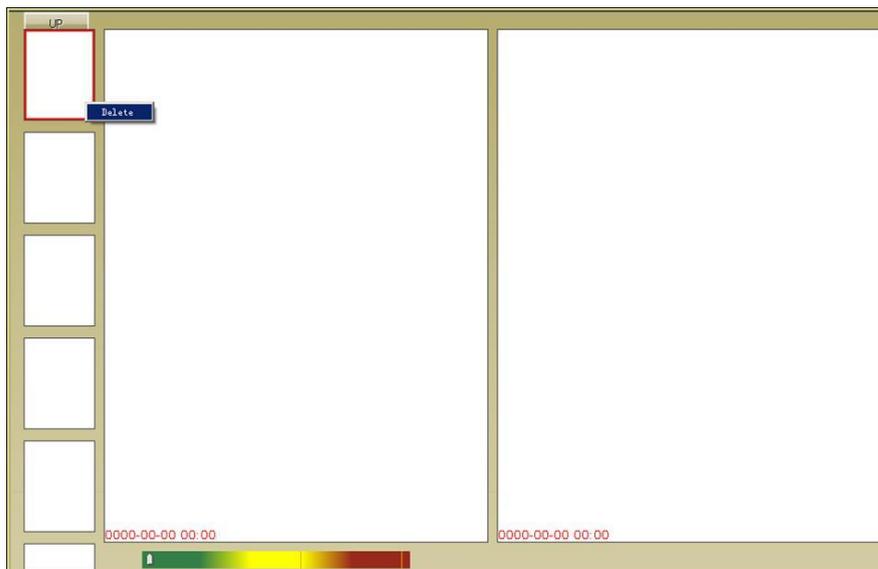
Figure 3-20

In suggestion treatment, system will base on the analysis result: good, normal, bad, automatically put the pre-input products into suggestion; in the meantime, you also can delete some or added more.
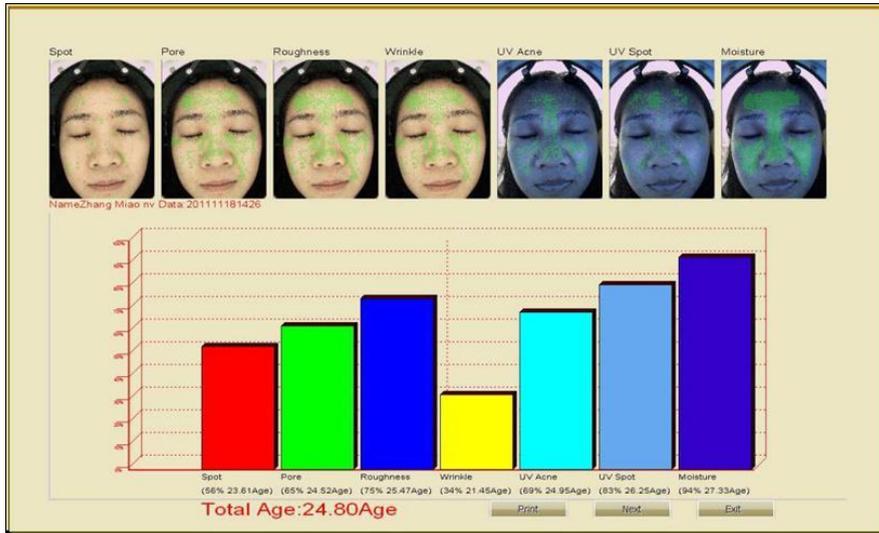
Figure 3-21

Figure 3-22

IV. Equipment Maintenance

IV-1. Cleaning of the System

Keep the machine and camera system clean, when not use, shall use a cloth to cover it.

IV-2. Check the Lamp

When the RGB lamp or UV lamp get broken or failed or out of life, not working, shall check or replace a new one. Contact to the manufacture's technician for repair or instruction

V. Cautions

V-1. Requirements of Computer System
Keep the machine and camera system clean, when not use, shall use a cloth to cover it.

IV-2. Check the Lamp
When the RGB lamp or UV lamp get broken or failed or out of life, not working, shall check or replace a new one. Contact to the manufacture's technician for repair or instruction.

V-3. Tips for Analysis
1.Please go to analysis and shoot after the light of Magic Mirror goes out, or it will show that " cannot connect to camera".
2. Only after the light of system flashes 2times, can we move or shooting will be not successful.
3. After finish shooting, we cannot go to analysis directly, we should adjust the analysis area first, and please avoid hair, eyebrow, nose, mouse and beard.

V-4. FAQ
1. The UV image is too bright to see the problems.
Please make sure that the light of ambient environment is not strong, the darker of surrounding environment the better.
2. Equipment works but the light is not on.
There may be something wrong with the RGB light, please change the light.
3. Equipment doesn't work at all, including the fan.
There may be something wrong with switch power supply, please check the power supply.
4. The fan of equipment works but it cannot analysis.
Please check whether the line of ballast is loose.

VI. Warranty

Ⅵ I-1 : Warranty Coverage

a. Boweik warrants defects in materials and workmanship for a period of 1 year from the date of original purchase.
b. Boweik will repair these products at no charge or refurnish the parts if it has any abnormal condition.

Ⅵ I-2 : Exclusions

This warranty is void and invalid in case of;
a. Damage caused by accident, abuse, misuse or misapplication, it will be repaired with repair fee
b. Damage caused by service performed by anyone who is not technician or qualified by manufacturer.
c. Product or part that has been modified without any permission of manufacturer.
d. Product that has no serial number.