



User Manual



ip test kit

KEEP THIS MANUAL FOR FUTURE NEEDS **CE**

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1. SAFETY INSTRUCTIONS

1.1. IMPORTANT SAFETY WARNING

This device has left the factory in perfect condition. In order to maintain this condition and to ensure safe operation, it is absolutely necessary for the user to follow the safety instructions and warning notes written in this user manual.


In order to install, operate, and maintain the lighting fixture safely and correctly we suggest that the installation and operation be carried out by qualified technicians and these instructions be carefully followed.


	CAUTION! HIGH VOLTAGE. RISK OF SEVERE OR FATAL ELECTRIC SHOCK
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	CAUTION! ALWAYS DISCONNECT MAINS SUPPLY BEFORE REMOVING ANY FIXTURE COVERS
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	CAUTION! NEVER TOUCH THE DEVICE DURING OPERATION! COVERS MAY BE HOT
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	CAUTION! KEEP THIS DEVICE AWAY FROM RAIN AND MOISTURE
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	WARNING! IT MAY REQUIRE DIFFERENT VACUUM/PRESSURE SETTING FOR THE IP TEST OF DIFFERENT FIXTURES, PLEASE MAKE SURE TO USE THE CORRESPONDING FIXTURE SETTINGS IN THE OPTION MENU TO RUN THE TEST, OR SET THE CORRECT VALUES BEFORE USE. ANY OVERPRESSURE OPERATION MAY CAUSE ACCIDENTAL DAMAGE OR INJURY. WEAR PROTECTIVE GLASSES WHEN USE THE IP TEST KIT.
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 **Important:** *Damage caused by the disregard of this user manual is not subject to warranty. The dealer and manufacturer will not accept liability for any resulting defects or problems.*

- If the device has been exposed to temperature changes due to environmental conditions, do not power on immediately. The resulting condensation could damage the device. Leave the device powered off until it has reached room temperature.
- This device falls under protection-class I. Therefore, it is essential that the device be earthed.
- Electrical connections, such as replacing the power plug, must be performed by a qualified person.
- Make sure that the available voltage is not higher than that which is stated at the end of this manual.

- Make sure the power cord is never crushed or damaged by sharp edges.If this should be the case, replacement of the cable must be done by an authorized dealer.
- If the external flexible power cord of this device is damaged, it shall be exclusively replaced by the manufacturer or their service agent or a similar qualified person in order to avoid injury.
- When the device is not in use or before performing maintenance, always disconnect the device from the mains.Only handle the power cord from the plug.Never pull the plug out of a socket by tugging the power cord.

Please be aware that damage caused by any modifications to the device are not subject to warranty.Keep away from children and non-professionals.

1.2. GENERAL GUIDELINES

- Don't use device in extreme and/or severe environments.
- Don't expose any part of this device to open flame or smoke. Keep device away from heat sources.
- Handle the device with care, avoid shaking or using force when installing or maintaining the device.
- Don't connect an external compressor to this device.
- Don't operate device if power cord is frayed, crimped, damaged and/or if any of the power cord connectors are damaged and do not insert into the device securely with ease. NEVER force a power cord connector into device. If the power cord or any of its connectors are damaged, replace it immediately with a new one of similar power rating.
- Device should be operated by qualified and trained persons ONLY. Read user manual carefully to ensure normal operation and lifespan of the device. [Protective goggles must be worn during operation.](#)
- [Regularly update the software and add lamp models.](#)
- Only use the original packaging materials and/or case to transport the device for service.

For safety reasons, please be aware that all modifications to the device are forbidden. If this device is operated in any way different to the ones described in this manual, the product may suffer damage and the warranty becomes void.Furthermore, any other operation may lead to short-circuits, burns, electric shocks etc.

2. FEATURES

POWER SUPPLY

- AC100-240V~, 50/60Hz
- Power Consumption: 35W

DISPLAY

- Advanced and convenient full –color LCD

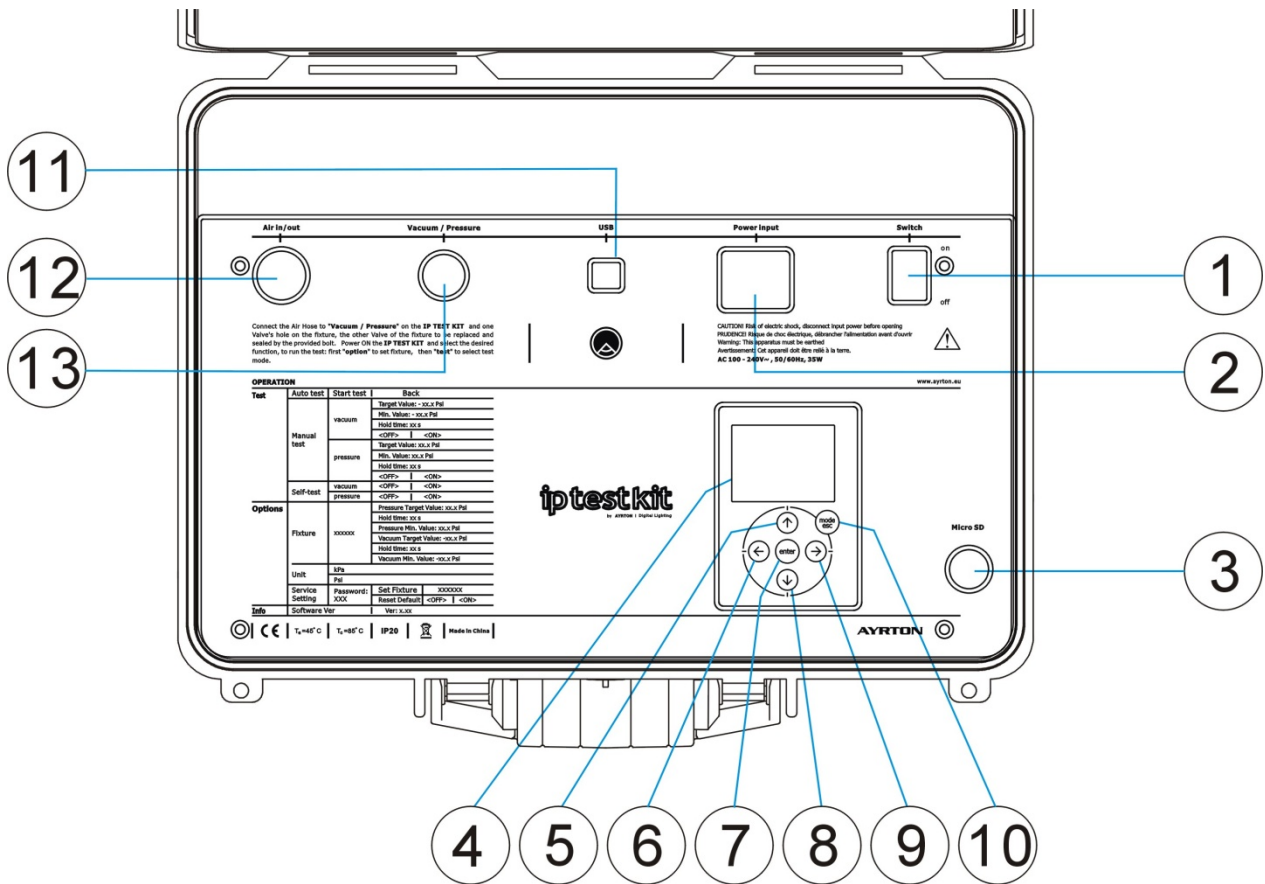
SOFTWARE

Upgrade: PC software upgrade

WEIGHT

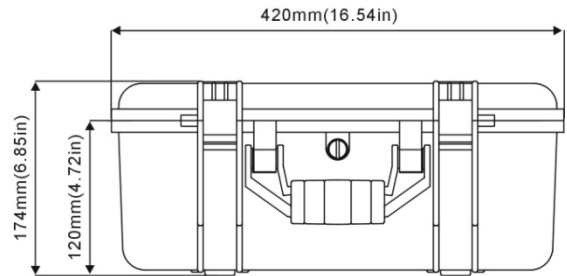
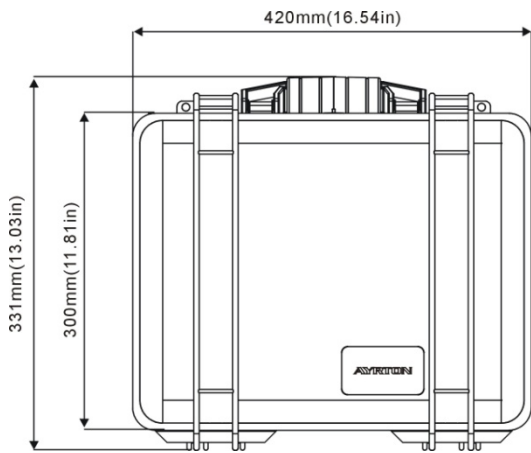
Net weight: 8.24 kg

3. OVERVIEW



- | | |
|-------------------|-----------------------|
| 1) Switch | 8) Down - button |
| 2) Power Input | 9) Right - button |
| 3) Micro SD | 10) Mode/Esc - button |
| 4) Display | 11) USB Port |
| 5) Up - button | 12) Air In/Out |
| 6) Left - button | 13) Vacuum/Pressure |
| 7) ENTER - button | |

4. DIMENSIONAL DRAWINGS



5. TOOLS

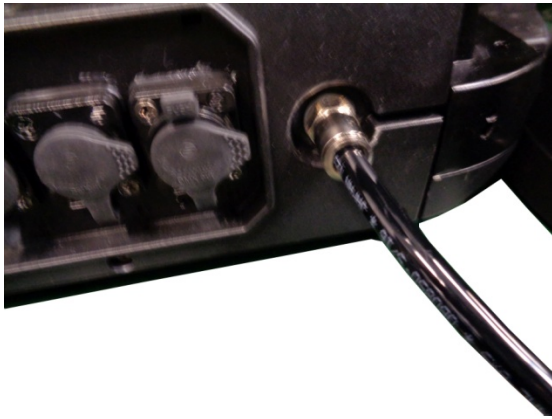
Tools (17mm Socket Wrench) are required to remove the valves on the IP fixtures. Tools are NOT included with the IP Test Kit, it can be purchased from local hardware stores.

6. CONNECTIONS

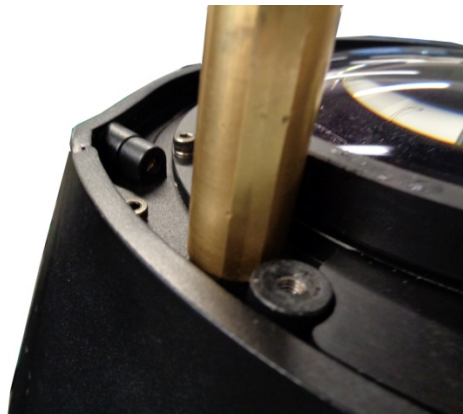
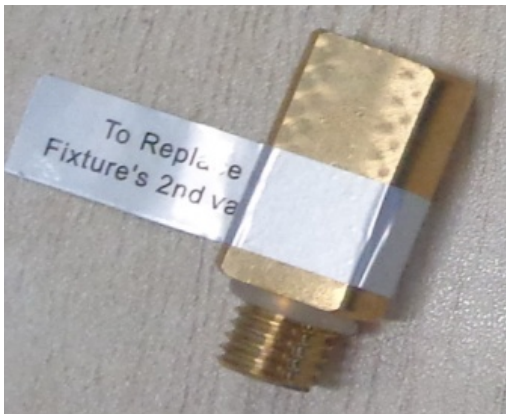
1. Connect one end of the Air Hose to “Vacuum / Pressure” on the IP Test Kit.



2. Remove one of the valves from the fixture using a 17mm socket wrench. Connect the other end of the Air Hose to the hole of this valve.



3. Remove the other valve from the fixture using a 17mm socket wrench. Then use the provided Bolt to replace and seal the hole of this valve.



4. Connect power cable to the IP Test Kit and switch it on to run the test.



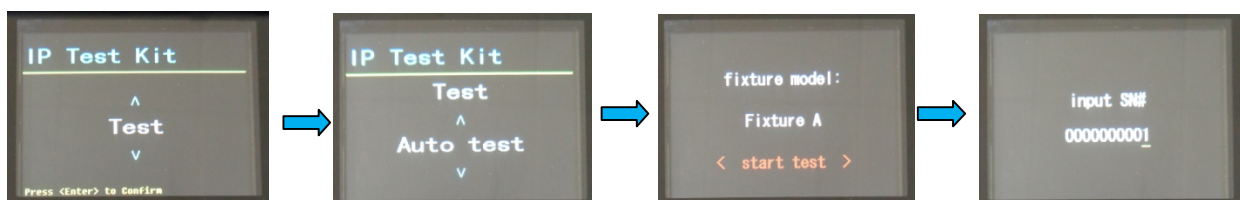
7. TESTING FUNCTIONS

Test	Auto Test	start test/back			
	Manual Test	Vacuum	target value:xxx min. value:xxx time hold:xxx OFF/ON		
		Pressure	target value:xxx min. value:xxx time hold:xxx OFF/ON		
	Self-Test	Vacuum	OFF/ON		
		Pressure	OFF/ON		
Options	Fixture	xxxxxxxx	Pressure target value:xxx Hold time:xxx Pressure min. value:xxx Vacuum target value:xxx Hold time:xxx Vacuum min. value:xxx		
	Unit	kPa psi			
	Service Setting	Password	xxx	Set Fixture	xxxxxxx
				Reset Default	OFF/ON
Info	Software Ver	Vx.x.x			

7.1. Test

7.1.1. Auto Test

1. Tap <MODE/ESC> button, access the main menu, Tap the <Up/Down> button until “Test” is displayed. Press <ENTER>, the display will show “Test” .
2. Press <Up/Down>, the display will show “Auto Test” .
3. Press< ENTER>, the display will show “Auto Test” .
4. The display will show “start test”, Press < Right/Left >, the display will show “back” .
5. Press <ENTER> to confirm or press <MODE/ESC> to return to the main menu.



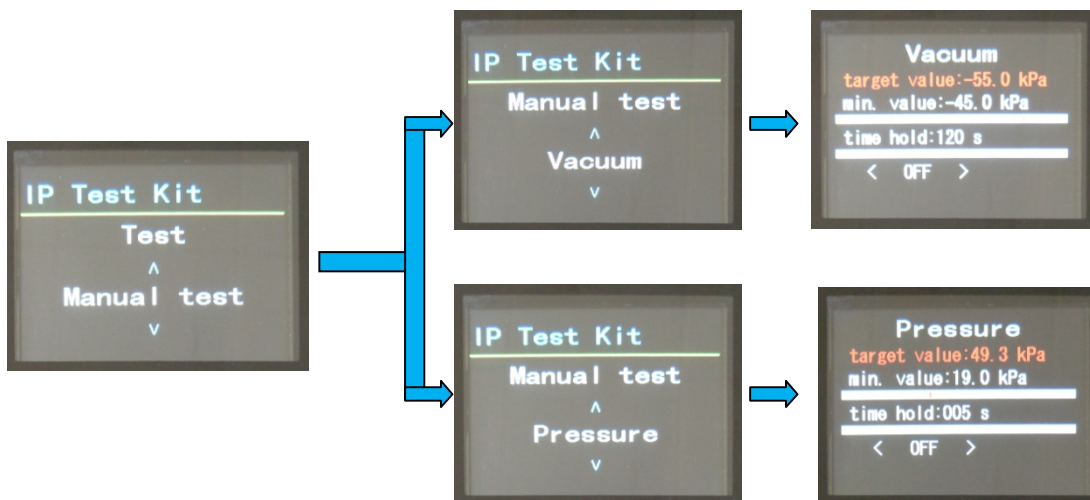
7.1.2. Manual Test

Vacuum

1. Tap <MODE/ESC> button, access the main menu, Tap the <Up/Down> button until “Test” is displayed. Press <ENTER>, the display will show “Test”; Tap the <Up/Down> button until the display will show “Manual Test”. Press <ENTER>, the display will show “Manual Test” .
2. Press <Up/Down>, the display will show “Vacuum” .
3. Press <ENTER>, the display will show “Vacuum” .
4. The display will show “OFF”, Press < Right/Left >, the display will show “ON”, you can setting “target value: xxx”, “min. value: xxx”, “time hold: xxx” .
5. Press <ENTER> to confirm or press <MODE/ESC> to return to the main menu.

Pressure

1. Tap <MODE/ESC> button, access the main menu, Tap the <Up/Down> button until “Test” is displayed. Press <ENTER>, the display will show “Test”; Tap the <Up/Down> button until the display will show “Manual Test”. Press <ENTER>, the display will show “Manual Test” .
2. Press <Up/Down>, the display will show “Pressure” .
3. Press <ENTER>, the display will show “Pressure” .
4. The display will show “OFF”, Press < Right/Left >, the display will show “ON”, you can setting “target value: xxx”, “min. value: xxx”, “time hold: xxx” .
5. Press <ENTER> to confirm or press <MODE/ESC> to return to the main menu.



7.1.3. Self - Test (this is for manufactory use only)

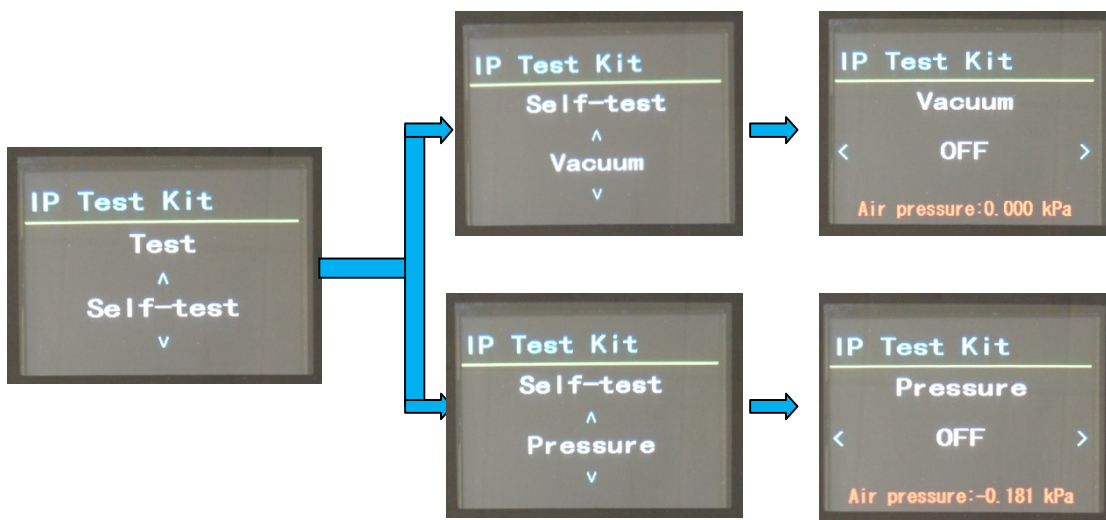
Vacuum

1. Tap <MODE/ESC> button, access the main menu, Tap the <Up/Down> button until “Test” is displayed. Press <ENTER>, the display will show “Test”; Tap the <Up/Down> button until the display will show “Self - Test”. Press <ENTER>, the display will show “Self - Test” .
2. Press <Up/Down>, the display will show “Vacuum” .
3. Press <ENTER>, the display will show “Vacuum” .

- The display will show “OFF”, Press < Right/Left >, the display will show “ON” .
- Press <ENTER> to confirm or press <MODE/ESC> to return to the main menu.

Pressure

- Tap <MODE/ESC> button, access the main menu, Tap the <Up/Down> button until “Test” is displayed. Press <ENTER>, the display will show “Test”; Tap the <Up/Down> button until the display will show “Manual Test” .Press <ENTER>, the display will show “Manual Test” .
- Press <Up/Down>, the display will show “Pressure” .
- Press< ENTER>, the display will show “Pressure” .
- The display will show “OFF”, Press < Right/Left >, the display will show “ON” .
- Press <ENTER> to confirm or press <MODE/ESC> to return to the main menu.

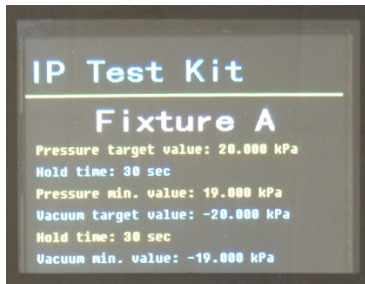


7.2. Options

7.2.1. Fixture

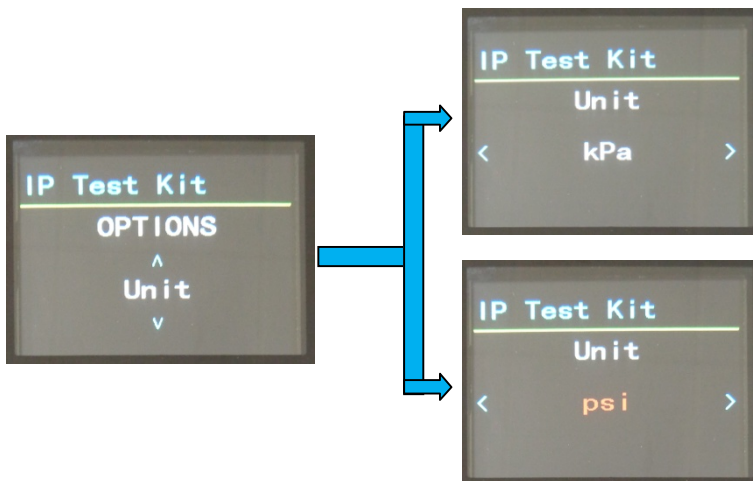
- Tap <MODE/ESC> button, access the main menu, Tap the <Up/Down> button until “Options” is displayed. Press <ENTER>, the display will show “Options” .
- Press <Up/Down>, the display will show “Fixture” .
- Press< ENTER>, the display will show “Fixture” .
- The display will show “xxxxxxx”, then you can setting “Pressure target value: xxx”, “Hold time: xxx”, “Pressure min. value: xxx”, “Vacuum target value: xxx”, “Hold time: xxx”, “Vacuum min. value: xxx” .
- Press <ENTER> to confirm or press <MODE/ESC> to return to the main menu.





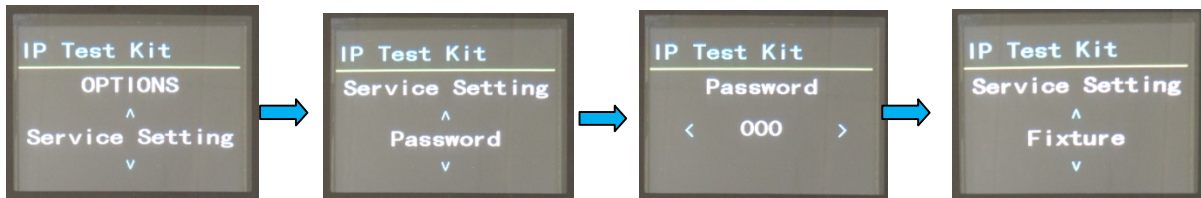
7.2.2. Unit

1. Tap <MODE/ESC> button, access the main menu, Tap the <Up/Down> button until “Options” is displayed. Press <ENTER>, the display will show “Options” .
2. Press <Up/Down>, the display will show “Unit” .
3. Press< ENTER>, the display will show “Unit” .
4. The display will show “kPa”, Press <Right/Left>, the display will show “psi” .
5. Press <ENTER> to confirm or press <MODE/ESC> to return to the main menu.



7.2.3. Service Setting

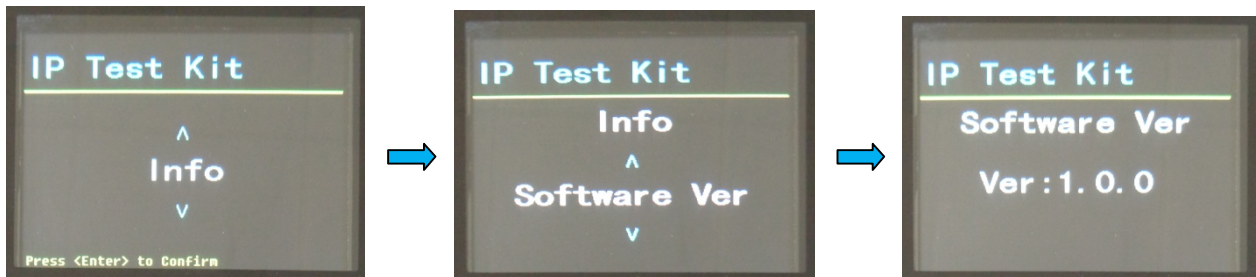
1. Tap <MODE/ESC> button, access the main menu, Tap the <Up/Down> button until “Options” is displayed. Press <ENTER>, the display will show “Options” .
2. Press <Up/Down>, the display will show “Service Setting” .
3. Press< ENTER>, the display will show “Service Setting” .
4. At “Password” menu input right password. Press< ENTER>, the display will show “Set Fixture”, “Reset Default” .
5. Press <ENTER> to confirm or press <MODE/ESC> to return to the main menu.



7.3. Info

7.3.1. Software Ver

1. Tap <MODE/ESC> button, access the main menu, Tap the <Up/Down> button until “Info” is displayed. Press <ENTER>, the display will show “Info” .
2. Press <Up/Down>, the display will show “Software Ver” .
3. Press< ENTER>, the display will show “Software Ver” .
4. The display will show “Vx.x.x” .
5. Press <ENTER> to confirm or press <MODE/ESC> to return to the main menu.



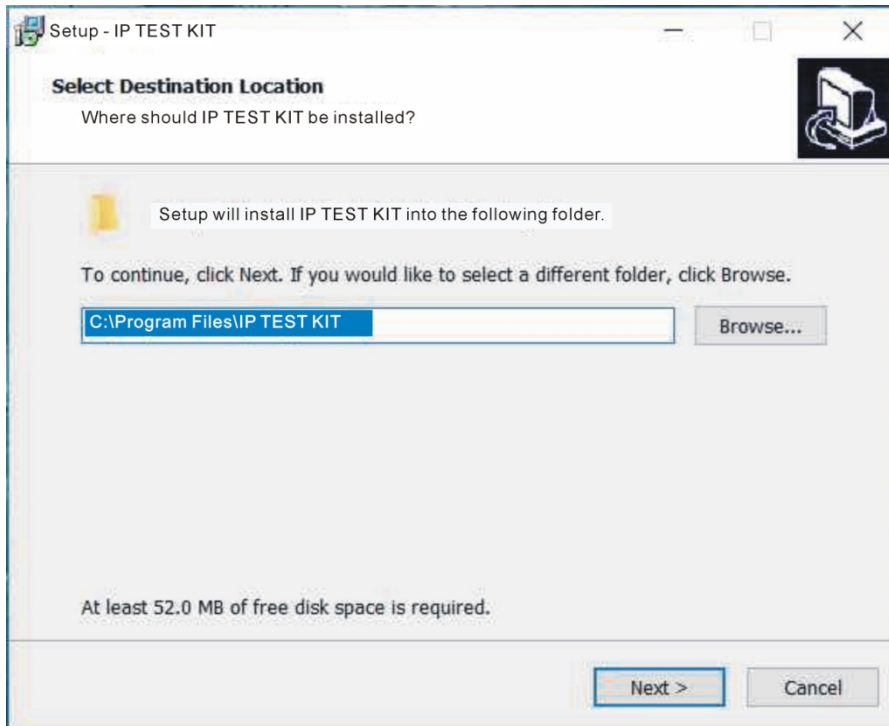
8. UPDATING IP TEST KIT SOFTWARE FROM PC SOFTWARE

8.1. PC Software Installation

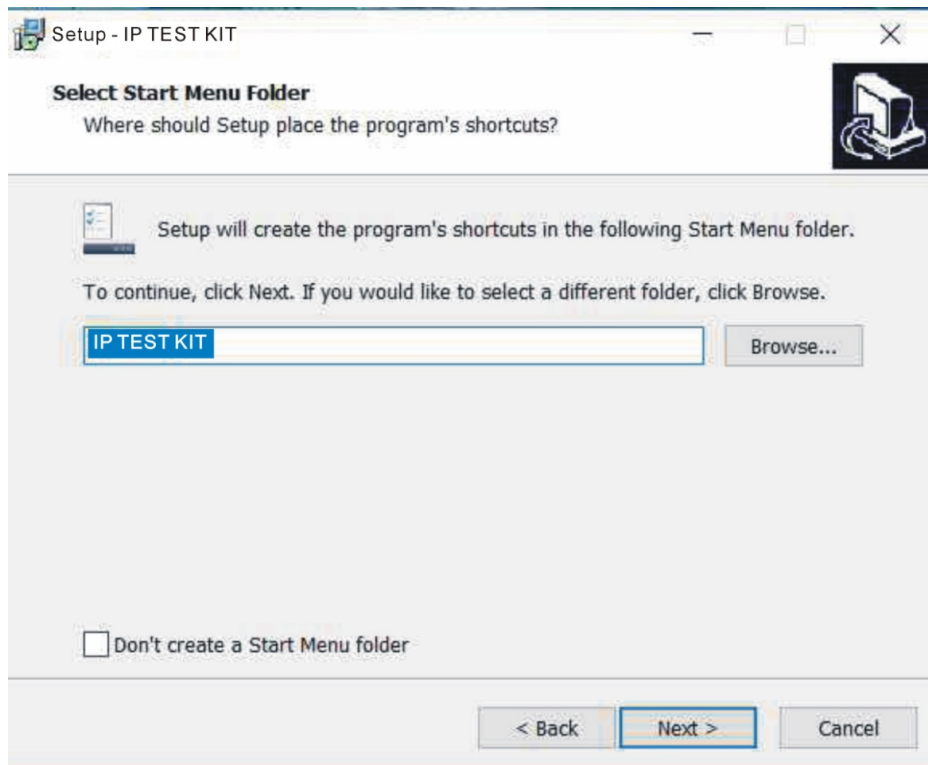
Compatible with Windows 7, 8 and 10 and requires a minimum of 52MB free disk space.

Download and install [IP TEST KIT 1.0.0 setup.](#)

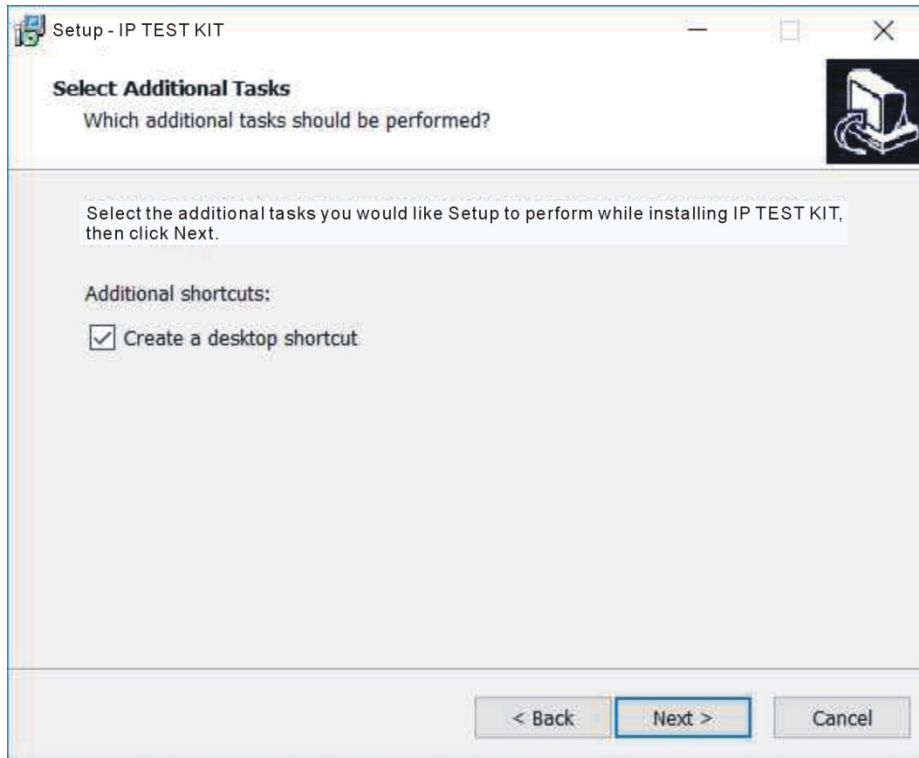
Step 1: Select Destination Location (requires at least **52MB** of free disk space).



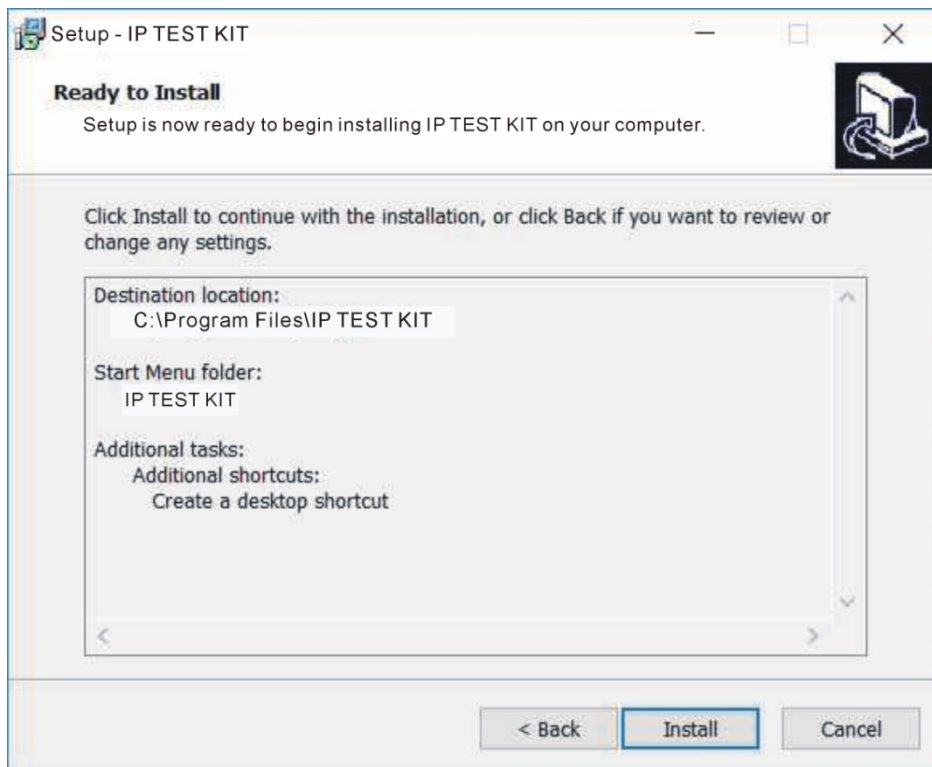
Step 2: Select Start Menu Folder, to select different folder location, click “**Browse...**”, and then click “**Next >**” to continue.



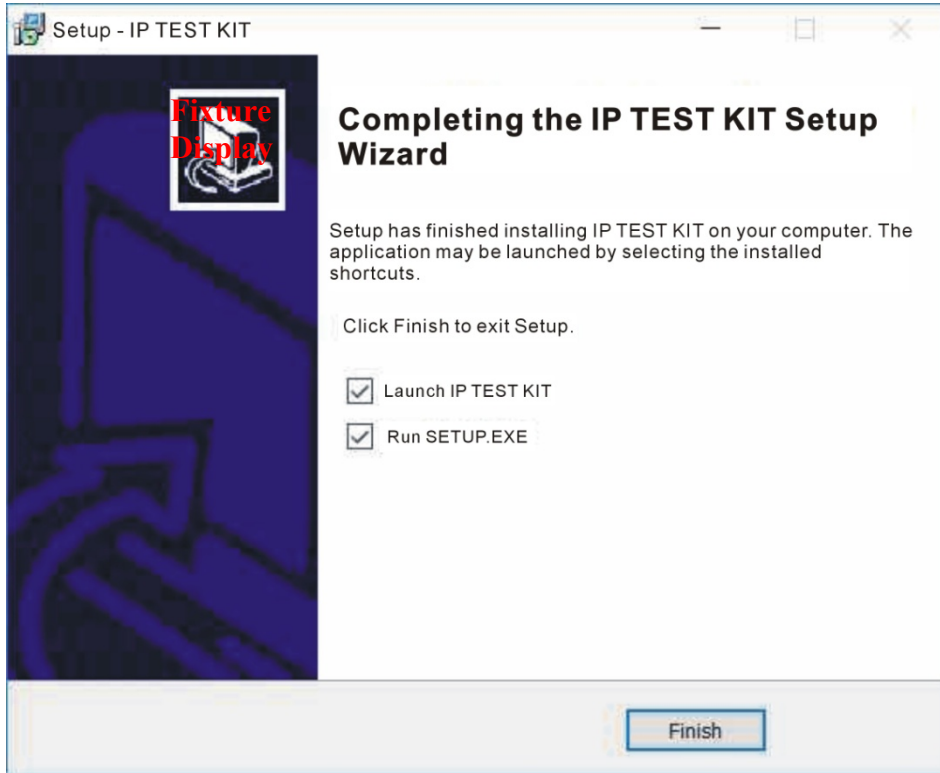
Step 3: Select Additional Tasks, select “**Create a desktop shortcut**” and click “**Next >**” .



Step 4: “Ready to install”, click “Install” .



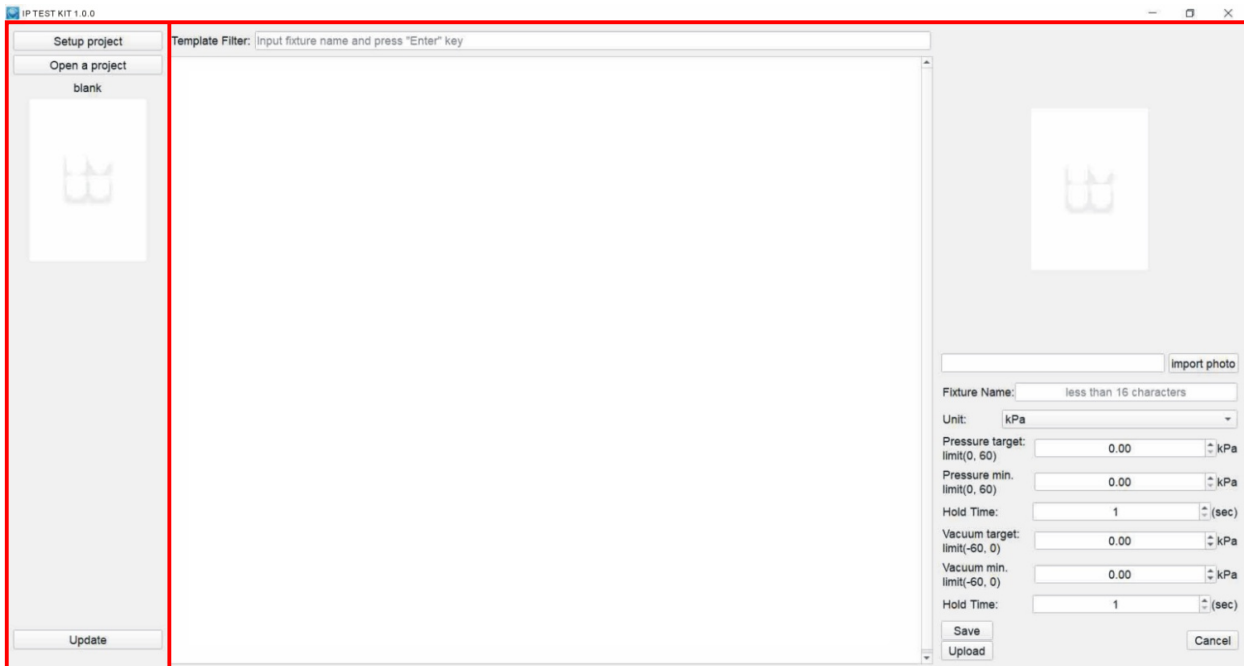
Step 5: As the program finishes installing, a dialogue window will prompt you to launch the program. Select **Run SETUP.EXE**, and select **Launch IP TEST KIT** if desired, and click **Finish**.



Step 6: Click desktop shortcut to launch IP TEST KIT software.

8.2. PC SOFTWARE - OPERATION

Main Software Interface



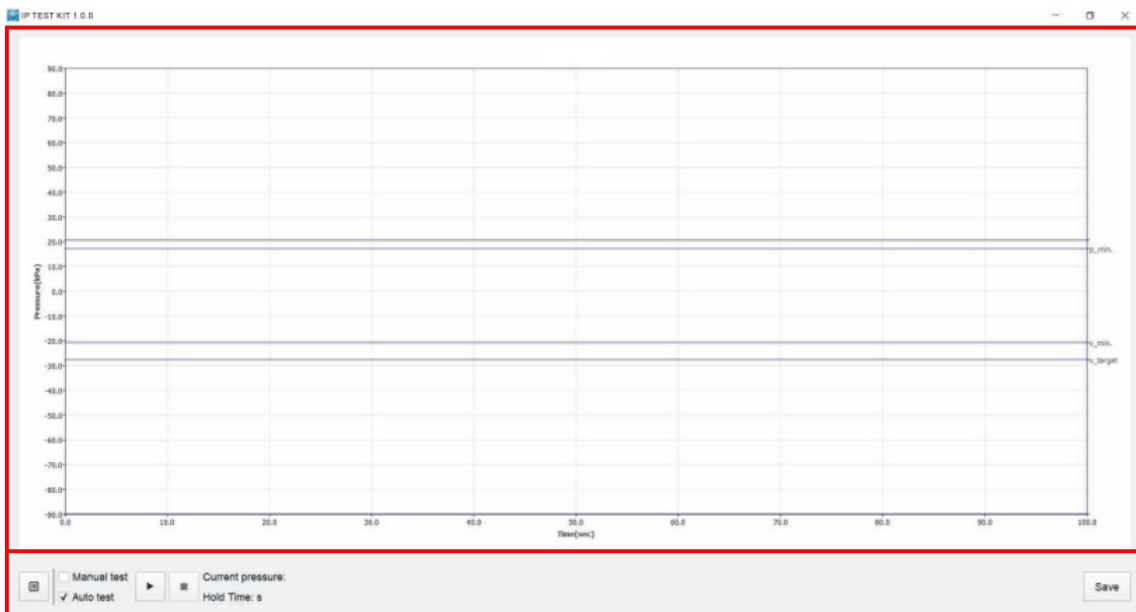
Step 1:

Click the “blank” area to upload a new fixture and enter new data.

- **Import photo:** Upload fixture photo in png.Or jpg.Format.
- **Fixture name:** Enter fixture name.
- **Unit:** Choose between kPa and psi.
- **Pressure target:** Enter maximum pressure value.
- **Pressure min.:** Enter minimum pressure value.
- **Hold Time:** Enter number of seconds for Pressure test.
- **Vacuum target:** Enter maximum vacuum value.
- **Vacuum min.:** Enter minimum vacuum value.
- **Hold Time:** Enter number of seconds for Vacuum test.

Step 2:

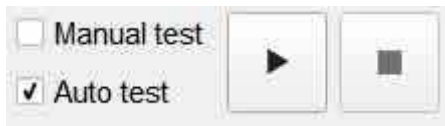
Select fixture you need to test. Then click Setup Project. The following image will be displayed.



Click here to return to main interface.



Manual test: Click (+) for Pressure Test, and (-) for vacuum Test.



Auto test: performs Pressure test first, then Vacuum test.

Current pressure:

Current pressure: shows current fixture pressure.

Hold Time:

Home time: shows hold time for either Pressure test or Vacuum test.

Step 3:

The following 5 test displays are samples of tests run in both Manual Test and Auto Test modes.

Step 4:

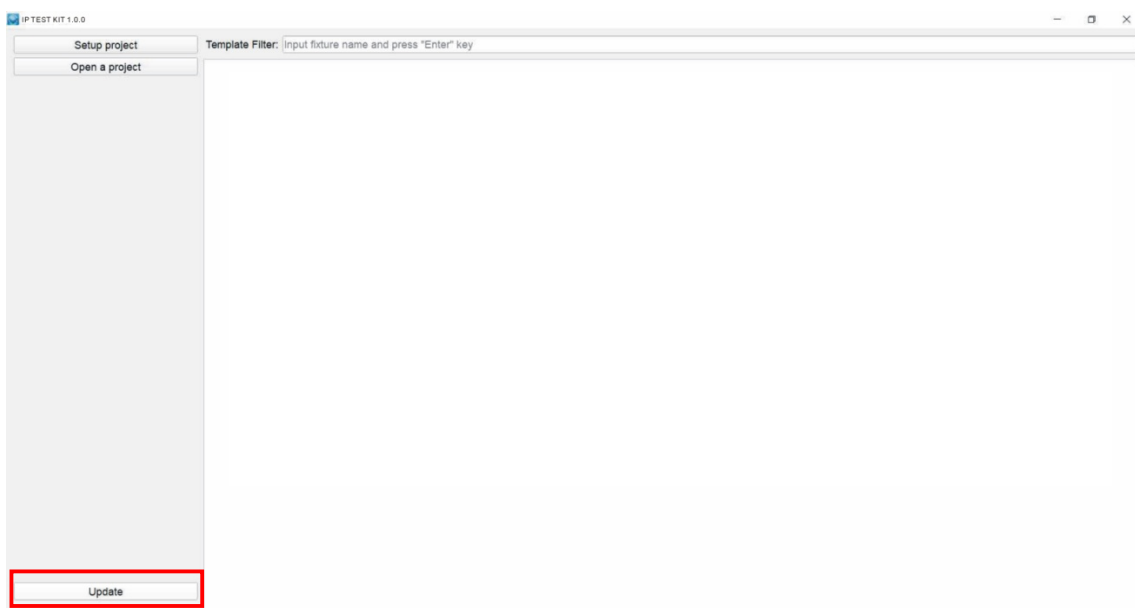
To save test results, first select your file location, name your file, then click:



Test results can be saved in two file formats: **.gmv** and **.xlsx**.

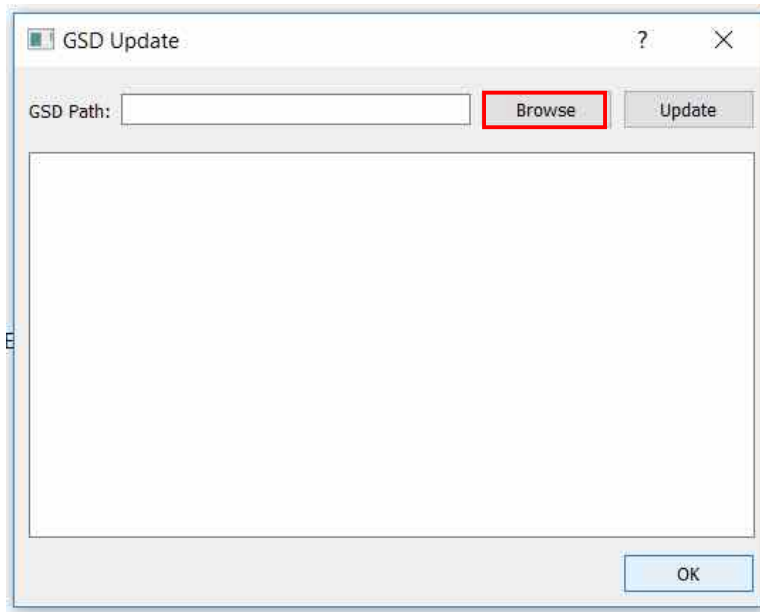
8.3. UPDATING IP TEST KIT SOFTWARE FROM PC SOFTWARE

Step 1: With the IP TEST KIT connected to your computer via the USB cable and the PC Software open, click “Update” .

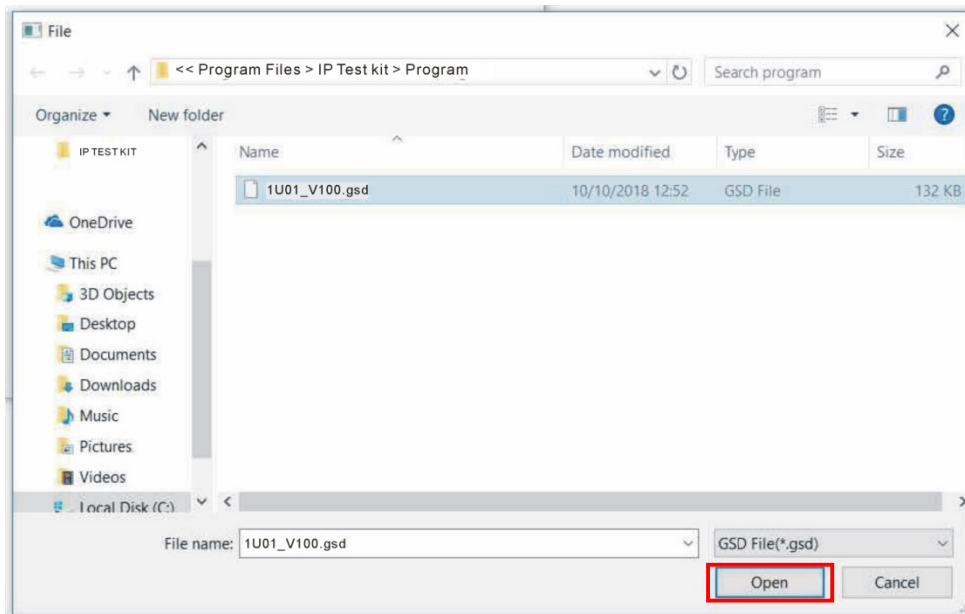


Step 2: Click “Browse” and navigate to location of “...IP Test Kit > Program > 1U01_V100.gsd”,

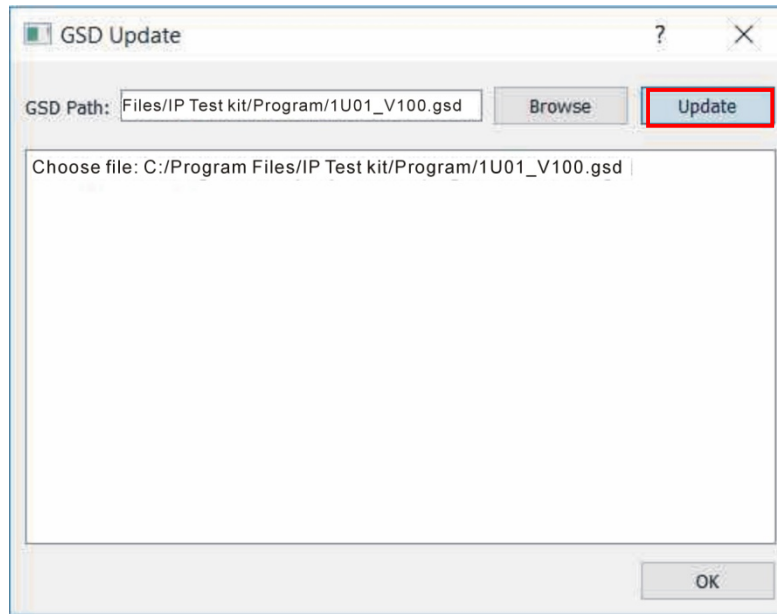
then click “OK” .



Step 3: Click on “1U01_V100.gsd” to select IP Test Kit software update, then click “Open” .



Step 4: With the IP Test Kit software update path opened, click “Update” .



Step 5: After “Update” is selected, the IP Test Kit PC Software will update the software of the IP Test Kit, and displays the status of the updating process after it is completed, displaying “Update completely!”

8.4. SOLUTION FOR ABNORMAL OPERATION OF PROGRAM CAUSED BY UNSUCCESSFUL UPDATE

- 1) Connect computer and IP Test Kit via USB cable.
- 2) Power on the IP Test Kit.
- 3) Open the upgrade software on computer, select the GSD upgrade file (note: do not press/start upgrade button).
- 4) Power off the IP Test Kit.
- 5) Power on the IP Test Kit again after 5 seconds (this is to make sure the MCU completely power off).
- 6) After the screen shown “IP Test Kit” interface, start the upgrade software on the computer in 10 seconds.
- 7) Wait for the software upgrade process. If any condition which leads to failure of upgrade, repeat step 1-6.

In addition, this upgrade method is for failed upgrade, if the IP Test Kit is working properly, please upgrade normally as 8.1 shown.

9. CLEANING AND MAINTENANCE

The following points have to be considered during inspection:

- 1) All screws for installing the devices or parts of the device have to be tightly connected and must not be corroded.
- 2) There must not be any deformations to the housing.
- 3) The power supply cables must not show any damage, material fatigue or sediment.

Further instructions depending on the installation location and usage have to be adhered to by a qualified installer and any safety concerns have to be removed.



CAUTION!

Disconnect from mains before starting maintenance operation.

We recommend frequent cleaning of the device. Please use a moist, lint-free cloth. Never use alcohol or solvents.

Please refer to the instructions under “Installation instructions” .

Should you need any spare parts, please order genuine parts from your local dealer.

Remark: Errors and omissions for all information given in this manual are excepted. All information is subject to change without prior notice.