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CHAUVET PROFESSIONAL IPTESTER Portable Compact IP Testing Device User Manual

Contents

CHAUVET PROFESSIONAL IPTESTER Portable Compact IP Testing Device

Product Information

- **Model ID**: IPTESTER Edition Notes: The IP Tester User Manual includes a description, safety precautions, installation, programming, operation, and maintenance instructions for the IP Tester as of the release date of this edition.
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- **Document Printing**: For best results, print this document in color, on letter size paper (8.5 x 11 in), double-sided. If using A4 paper (210 x 297 mm), configure the printer to scale the content accordingly.
- **Intended Audienc**e: Any person installing, operating, and/or maintaining this product should completely read through the guide that shipped with the product, as well as this manual, before installing, operating, or maintaining this product.
- **Disclaimer:** This IP Tester User Manual is the 1st edition of this document. Go to **www.chauvetprofessional.com** for the latest version.

Product Usage Instructions

1. Before You Begin (Page 1)
    - Review the information in this section before starting any setup or operation.
2. Introduction (Page 3)
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3. Setup (Page 5)

- **AC Power**: Instructions on connecting the AC power for the IP Tester.
- **AC Plu**g: Information on the AC plug used by the IP Tester.

4. Operation
  - **Control Panel Description**: Describes the control panel of the IP Tester.
  - **Menu Map**: Provides a map of the menu options available on the IP Tester.
  - **Testing Parameters**: Explains the testing parameters used by the IP Tester.
  - **Configuration (Set-up)**: Instructions on configuring the IP Tester.
  - **Information:** Displays additional information on the IP Tester.
  - **Testing:** Guides users on how to perform testing using the IP Tester.

Edition Notes
The IP Tester User Manual includes a description, safety precautions, installation, programming, operation and maintenance instructions for the IP Tester as of the release date of this edition.

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Document Revision
This IP Tester User Manual is the 1st edition of this document. Go to **www.chauvetprofessional.com** for the latest version.

Before You Begin

What Is Included

- IPTester
- Neutrik® powerCON® TRUE1 power cable
- USB cable
- condensation valve blanks
- Condensation valve remover tool
- M12 threaded brass nozzle with push-to-connector fitting
- Quick Reference Guide

Claims

Carefully unpack the product immediately and check the container to make sure all the parts are in the package and are in good condition.

If the box or the contents (the product and included accessories) appear damaged from shipping, or show signs of mishandling, notify the carrier immediately, not Chauvet. Failure to report damage to the carrier immediately may invalidate the claim. In addition, keep the box and contents for inspection.

For other issues, such as missing components or parts, damage not related to shipping, or concealed damage, file a claim with Chauvet within 7 days of delivery.

Text Conventions

Convention	Meaning
1–512	A range of values
50/60	A set of values of which only one can be chosen
Settings	A menu option not to be modified
<ENTER>	A key to be pressed on the product's control panel

Symbols

 Critical installation, configuration, or operation information. Not following these instructions may make the product not work, cause damage to the product, or cause harm to the operator.

 Important installation or configuration information. The product may not function correctly if this information is not used.

 Useful information.

 The term "DMX" used throughout this manual refers to the USITT DMX512-A digital data transmission protocol.

Safety Notes

Read all the following safety notes before working with this product. These notes contain important information about the installation, usage, and maintenance of this product.

This product contains no user-serviceable parts. Any reference to servicing in this User Manual will only apply to properly trained, certified technicians. Do not open the housing or attempt any repairs.
All applicable local codes and regulations apply to proper installation of this product.

CAUTION

- This product's housing may be hot when operating. Mount this product in a location with adequate ventilation, at least 20 in (50 cm) from adjacent surfaces.
- When transferring the product from extreme temperature environments, (e.g., cold truck to warm humid ballroom) condensation may form on the internal electronics of the product. To avoid causing a failure, allow the product to fully acclimate to the surrounding environment before connecting it to power.

ALWAYS

- Disconnect from power before cleaning the product.
- Connect this product to a grounded and protected circuit.
- DO NOT
- Leave any flammable material within 50 cm of this product while operating or connected to power.
- Connect this product to a dimmer or rheostat.
- Operate this product if the housing, lenses, or cables appear damaged.
- Operate this product outdoors or in any location where dust, excessive heat, water, or humidity may affect it. (IP20)
- The maximum ambient temperature is 113 °F (45 °C). Do not operate this product at higher temperatures.
- The minimum startup temperature is -4°F (-20°C). Do not start the product at lower temperatures.
- The minimum ambient temperature is -22°F (-30°C). Do not operate the product at lower temperatures.
- To eliminate unnecessary wear and improve its lifespan, during periods of non-use completely disconnect the product from power via breaker or by unplugging it.
- In the event of a serious operating problem, stop using immediately.

If this Chauvet product requires service, contact Chauvet Technical Support.
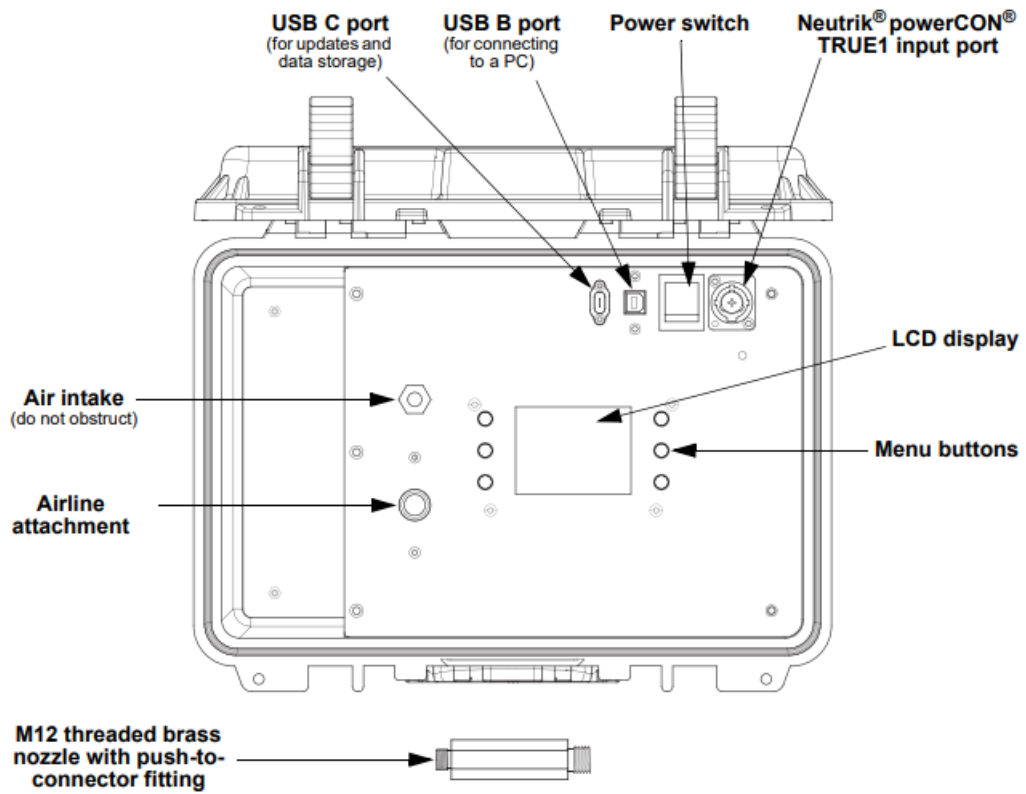
Introduction

Description
The IP Tester is a portable, compact device for testing the vacuum and pressure capacity of IP-rated products. Testing profiles for Chauvet Professional IP-rated products are pre-loaded, and it is easy to build custom testing profiles. Connect to a PC with the built-in webserver for convenient storage of test data as well as software upgrades.
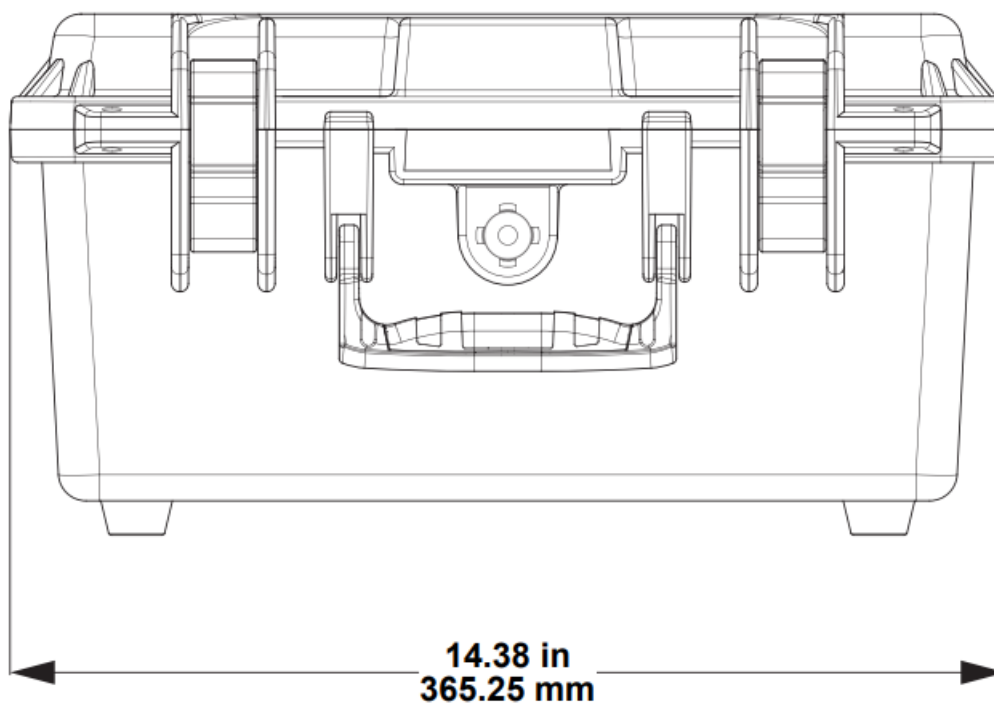
Features

- Portable, compact IP testing device capable of both vacuum and pressure testing parameters.
- Pre-loaded testing personality files for Chauvet Professional IP-rated products
- Easy to build custom testing profiles
- Built in webserver to easily connect to personal computers for creating fixture profiles and storing information from tests
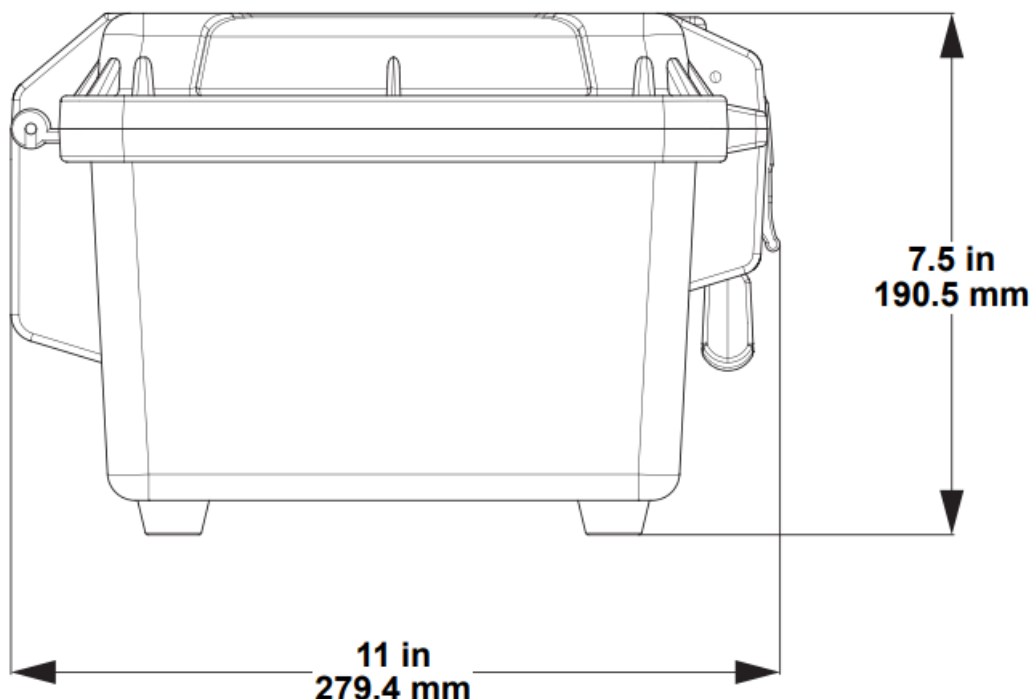
- USB-C input for easy software upgrades and for storing fixture test data
- USB-B port for easy connection to PC
- Compact and impact resistant ABS plastic case is designed to fit in tool and road cases with touring in mind

Product Overview

Product Dimensions

14.38 in
365.25 mm

7.5 in
190.5 mm

11 in
279.4 mm

Setup

AC Power

The IP Tester has an auto-ranging power supply and it can work with an input voltage range of 100 to 240 VAC, 50/60 Hz.

To determine the product's power requirements (circuit breaker, power outlet, and wiring), use the current value listed on the label affixed to the product's back panel, or refer to the product's specifications chart. The listed current rating indicates the product's average current draw under normal conditions.

- Always connect the product to a protected circuit (a circuit breaker or fuse). Ensure the product has an appropriate electrical ground to avoid the risk of electrocution or fire.

- To eliminate unnecessary wear and improve its lifespan, during periods of non-use completely disconnect the product from power via breaker or by unplugging it.

Never connect the product to a rheostat (variable resistor) or dimmer circuit, even if the rheostat or dimmer channel serves only as a 0 to 100% switch.

AC Plug

The IP Tester comes with a power input cable terminated with a Seetronic Powerkon A connector on one end and an Edison plug on the other end (U.S. market). If the power cable which came with the product has no plug, or if it is necessary to change the plug, use the table below to wire a plug.

Connection	Wire (U.S.)	Wire (Europe)	Screw Color
AC Live	Black	Brown	Yellow or Brass
AC Neutral	White	Blue	Silver
AC Ground	Green/Yellow	Green/Yellow	Green

PC Linking

The IP Tester is capable of linking with a personal computer using a USB type B to USB type A connection. Easily store and view test data and create fixture profiles via the built-in computer interface software.

USB C Storage and Updates
The IP Tester will work with a USB C drive to perform software updates and store product test data.

Mounting
The IP Tester has a compact and impact-resistant ABS plastic case with rubber feet for placing on a flat and stable surface during use.

Connecting to a Fixture
Follow the instructions below to prepare the IP Tester to perform valid pressure and vacuum tests on a product.

1. Remove all condensation valves on the product with the included condensation valve remover tool and replace all but one of them with the valve blanks. Ensure that all valve blanks are sealed tightly.
2. Attach the threaded end of the M12 threaded brass nozzle to the remaining open condensation valve on the product.
3. Plug the air hose into the airline attachment of the IP Tester.

Storing the Product
When finished testing, the air hose must be removed to allow the case to close correctly.

1. Push down on the outer cylinder of the airline attachment.
2. Pull the air hose out of the attachment.

Operation

Control Panel Description

Button	Name	Function
⇧	**<UP>**	Navigates upwards through the menu list or increases the value when in a function
☰	**<MENU>**	Exits from the current menu or function
⇩	**<DOWN>**	Navigates downwards through the menu list or decreases the value when in a function
⇦	**<LEFT>**	Navigates leftwards through the menu list
↵	**<ENTER>**	Enables the currently displayed menu or sets the selected value into the function
⇨	**<RIGHT>**	Navigates rightwards through the menu list

Menu Map
Refer to the IP Tester product page on **www.chauvetprofessional.com** for the latest menu map.

Main Level	Programming Levels			Description
		− − − − − − − −	− − − − − −	

Test	**Auto Test**		target value:	_. _ _ **psi**	Automatic test. See **Set-up** to select fixture profile. Tests pressure first, and then tests vacuum if pressure passes.
			min value:	_. _ _ **psi**	
			time hold:	_ _ _ **s**	**Test again NO YES**
			Time hold:	_ _. _ **s**	
			Total test time:	_ _. _ **s**	
	Manual Test	**Vacuum**	target value:	-0.00–-08.71psi	Sets target value
			min value:	-0.00–-08.71psi	Sets minimum value
			time hold:	000–180s	Sets hold time
			start flag:	OFF	Starts/stops manual test
				ON	
			Time hold:	_ _ _ **s**	Shows hold time
			Total test time:	_ _ _ **s**	Shows total test time
		Pressure	target value:	0.00–08.71psi	Sets target value
			min value:	0.00–08.71psi	Sets minimum value
			time hold:	000–180s	Sets hold time
			start flag:	OFF	Starts/stops manual test
				ON	
			Time hold:	_ _. _ **s**	Shows hold time
			Total test time:	_ _. _ **s**	Shows total test time
	Self-Test	**Vacuum**	Max Vacuum value:	–0.00–08.71psi	Sets maximum vacuum value
			OFF		Activates/deactivates self vacuum test
			ON		
		Pressure	Max Pressure value:	0.00–08.71psi	Sets maximum pressure value
			OFF		Activates/deactivates self pressure test
			ON		
Set-up	**Fixture sel**	_ _ _ _ _ _ _ _ _ _	pressure target value:	_. _ _ **psi**	Selects this fixture and these settings for auto test. See **Edit Fixture** > **Edit data**
			time hold:	_ _ _ **s**	

		pressure min value:	_._ _ _ psi	to set values and hold times.

Main Level	Programming Levels					Description
	Fixture select (cont.)	——————— (cont.)	vacuum target value:	-_._ _ psi		Selects this fixture and these settings for auto test. See **Edit Fixture** > **Edit data** to set values and hold times.
			time hold:	_ _ _ s		
			vacuum min value:	-_._ _ _ psi		
		—————————	pressure target value:	_._ _ _psi		Selects this fixture and these settings for auto test. See **Edit Fixture** > **Edit data** to set values and hold times.
			time hold:	_ _ _s		
			pressure min value:	_._ _ _psi		
			vacuum target value:	-_._ _ _ psi		
			time hold:	_ _ _s		
			vacuum min value:	-_._ _ _psi		
	Unit	psi				Shows pounds per square inch (**0.00–08.71psi**)
		kPa				Shows kilopascals (**00.0–60.0 kPa**)
		Edit Name	—————————	—————————		Edits name of fixture
			—————————	—————————		Edits name of fixture
			————— —————	pressure target value:	0.00–8.71psi	Sets target values, minimum values, and hold times for selected fixture
				time hold:	000–180 s	
				pressure min value:	0.00–8.71psi	
				vacuum target value:	0.00–8.71psi	
				time hold:	000–180 s	

Set-up (cont.)	Edit Fixture	Edit Data	— — — — — — — — — —	vacuum min value:	0.00–8.71psi	
				pressure target value:	0.00–8.71psi	Sets target values, minimum values, and hold times for selected fixture
				time hold:	000–180 s	
				pressure min value:	0.00–8.71psi	
				vacuum target value:	0.00–8.71psi	
				time hold:	000–180 s	
				vacuum min value:	0.00–8.71psi	
	USB Update	— — — — (0920)	USB Update	NO		Updates firmware via USB
				YES	— — — — —	
	Import File	NO				Imports selected file via USB
		YES	— — — — — — — — —			
	Export File	NO				Exports files via USB
		YES				
	Delete Fixture	— — — — — — — — —	NO YES			Deletes the selected fixture
		— — — — — — — — —				
		— — — — — — — — —				
	Add Fixture	NO				Does not add a fixture
		YES	Edit Name			Adds a fixture "**Example_**" and prompts to edit
			Edit Data			
Information	V_-_ _ _ _ _ _					Displays firmware version

Testing Parameters
The IP Tester tests the connected product's IP rating integrity using the following parameters

- **target value**: The IP Tester will create vacuum or pressure of this value before holding. This value is negative

for vacuum and positive for pressure.

- **min value**: If the vacuum or pressure goes above (vacuum) or below (pressure) this value while holding, the test fails.
- **time hold**: The IP Tester will hold for this number of seconds after achieving the target value.

Configuration (Set-up)

This section includes instructions for selecting a fixture profile of testing parameters, setting the display unit, editing fixture profiles, using the USB type C port, and deleting or creating fixture profiles.

Fixture Selection

Selecting a fixture profile applies the selected testing parameters to the Auto Test function.

1. Go to the Set-up main level.
2. Select the Fixture Select option.
3. Select the desired profile from the list of options. The parameter values will show on the display.

Unit

To select the unit of pressure/vacuum the product will display

1. Go to the Set-up main level.
2. Select the Unit option.
3. Set the desired unit from psi (pounds per square inch) or kPa (kilopascals).

Edit Fixture Name

To edit the name of a fixture profile

1. Go to the Set-up main level.
2. Select the Edit Fixture option.
3. Select the Edit Name option.
4. Select which profile name to edit from the list of existing profiles.
5. Use <UP>, <DOWN>, <LEFT>, and <RIGHT> to set the desired name for the selected profile.

Edit Fixture Data

To set the parameter values of a fixture profile

1. Go to the Set-up main level.
2. Select the Edit Fixture option.
3. Select the Edit Data option.
4. Select which fixture to edit from the list of existing profiles.
5. Select which parameter to edit, from
    - **pressure target value**: (from 0.00–08.71psi or 00.0–60.0kPa)
    - **time hold**: (for pressure test) (from 000–180s [seconds])
    - **pressure min value:** (from 0.00–08.71psi or 00.0–60.0kPa)
    - v**acuum target value**: (from 0.00–08.71psi or 00.0–60.0kPa)
    - **time hold**: (for vacuum test) (from 000–180s [seconds])
    - **vacuum min value**: (from 0.00–08.71psi or 00.0–60.0kPa)

6. Use <LEFT> and <RIGHT> to set the value of the selected parameter.

USB Firmware Update

To perform a firmware update from a USB drive

1. Download the latest firmware update file for the IP Tester from **www.chauvetprofessional.com** and place it on the USB drive.
2. Plug the USB drive into the USB type C port of the IP Tester.
3. Go to the Set-up main level.
4. Select the USB Update option.
5. Use <UP> (increases the number value of the selected digit) and <DOWN> (selects the next digit) to enter the passcode (0920).
6. Select the USB Update option.
7. Select NO (cancel) or YES (continue).
8. Select the firmware update file from the list of options.

Import Files via USB

To import a file from a USB drive

1. Plug the USB drive into the USB type C port of the IP Tester.
2. Go to the Set-up main level.
3. Select the Import File option.
4. Select NO (cancel) or YES (continue).
5. Select the desired file from the list of options.

Export Files via USB

To export data to a USB drive

1. Plug the USB drive into the USB type C port of the IP Tester.
2. Go to the Set-up main level.
3. Select the Export File option.
4. Select NO (cancel) or YES (exports 2 text files to the USB drive).

Delete Fixture

To delete a fixture profile from the IP Tester

1. Go to the Set-up main level.
2. Select the Delete Fixture option.
3. Select the desired fixture profile from the list of options.
4. Select NO (cancel) or YES (delete selected fixture profile).

Add New Fixture

To add a new fixture profile to the IP Tester

1. Go to the Set-up main level.

2. Select the Add Fixture option.

3. Select NO (cancel) or YES (add a new fixture profile called Example_).

4. Select the Edit Name option or the Edit Data option.

5. Follow step 5 under Edit Fixture Name and steps 5–6 under Edit Fixture Data.

Information
To view the current firmware version of the IP Tester, go to the Information main level.

Testing
The IP Tester can perform automatic tests based on the selected fixture profile, manual pressure or vacuum tests based on easily changeable parameter values, and self-tests to ensure the IP Tester is functioning correctly.

Auto Test
To perform an automatic test on a product with an existing fixture profile on the IP Tester

1. Follow the instructions under Connecting to a Fixture.

2. Follow the instructions under Fixture Selection.

3. Go to the Test main level.

4. Select the Auto Test option. The IP Tester will begin testing the connected product.

   While testing, the Time hold will count down and the Total test time will count up on the display.

5. When both tests are completed, select NO (do not test again) or YES (test again).

   If either test fails, double-check all hose connections and check that the valve blanks in the condensation

   valves of the product are sealed tight, as well as the M12 threaded brass nozzle of the IP Tester. If tests

   continue to fail, contact Chauvet Technical Support.

Manual Test
To perform a manual test on a product without an existing fixture personality on the IP Tester

1. Follow the instructions under Connecting to a Fixture.

2. Go to the Test main level.

3. Select the Manual Test option.

4. Select the Vacuum option or the Pressure option.

5. Use <LEFT> and <RIGHT> to set the target value, min value, and time hold to the values required for the

   connected product.

6. To start the test, select start flag and press <LEFT> or <RIGHT> to set it to ON.

If either test fails, double-check all hose connections and check that the valve blanks in the condensation valves of the product are sealed tight, as well as the M12 threaded brass nozzle of the IP Tester. If tests continue to fail, contact Chauvet Technical Support.

Self-Test
To perform a self-test on the IP Tester and verify the pressure and vacuum capacity of the product

1. Attach the air hose to the airline attachment of the IP Tester.

2. Go to the Test main level.

3. Select the Self-Test option.

4. Select the Vacuum option or the Pressure option.

5. Use <LEFT> and <RIGHT> to set the Max Vacuum value or the Max Pressure value.

6. Block the end of the M12 threaded brass nozzle completely with a finger or thumb.

7. To start the test, select OFF and press <RIGHT> to set it to ON.

   If either test fails, contact Chauvet Technical Support.

Computer Interface Software
To access recorded data via a linked PC

1. Download the computer interface software from **www.chauvetprofessional.com**.

2. Connect the IP Tester to power.

3. Connect the IP Tester to the PC via the UBS type B port with the included USB cable.

4. Open the computer interface software.

5. Click Connect.

6.

   Select the COM port to which the IP Tester is connected.

7. The IP Tester will upload data automatically and allow setup and control.

Maintenance

Product Maintenance
Dust build-up reduces performance and can cause overheating. This can lead to reduction of the product lifespan and/or mechanical wear. To maintain optimum performance and minimize wear, clean all lighting products at least twice a month. However, be aware that usage and environmental conditions could be contributing factors to increase the cleaning frequency.

To clean the product, follow the instructions below

1. Unplug the product from power.

2. Wait until the product is at room temperature.

3. Use a vacuum (or dry compressed air) and a soft brush to remove dust collected on the external surfaces.

4. Clean with a mild soap solution, ammonia-free glass cleaner, or isopropyl alcohol.

5. Apply the solution directly to a soft, lint free cotton cloth or a lens cleaning tissue.

6. Softly drag any dirt or grime to the edge of the surface.

Always dry the product carefully after cleaning it.

Technical Specifications

Dimensions and Weight

Length	Width	Height	Weight
14.38 in (365.25 mm)	11 in (279.4 mm)	7.5 in (190.5 mm)	9 lb (4.1 kg)

Note: Dimensions in inches are rounded.

Power

Power Supply Type	Range	Voltage Selection
Switching (internal)	100 to 240 VAC, 50/60 Hz	Auto-ranging

Parameter	100 V, 60 Hz	120 V, 60 Hz	208 V, 60 Hz	230 V, 50 Hz	240 V, 50 Hz
Consumption	28 W	28 W	28 W	28 W	28 W
Operating Current	0.453 A	0.379 A	0.240 A	0.226 A	0.222 A

Power I/O	U.S./Worldwide	UK/Europe
Power Input Connector	Seetronic Powerkon IP65	Seetronic Powerkon IP65
Power Cable plug	Edison	Local plug

Thermal

Maximum External Temperature	Cooling System
113 °F (45 °C)	Convection

Control

I/O Connector
USB-B, USB-C

Ordering

Product Name	Item Name	Item Code	UPC Number
IP Tester	IPTESTER	25991743	781462220914

Contact Us

General Information Technical Support
Chauvet World Headquarters

- **Address:** 3360 Davie Rd.
- **Voice:** (844) 393-7575
- Davie, FL 33314 Fax: (954) 756-8015
- **Voice:** (954) 577-4455
- **Email:** chauvetcs@chauvetlighting.com
- **Fax:** (954) 929-5560
- **Toll Free**: (800) 762-1084
- **Website:** www.chauvetprofessional.com

Chauvet U.K.

- **Address:** Pod 1 EVO Park
- **Email:** UKtech@chauvetlighting.eu

- Little Oak Drive, Sherwood Park
- Nottinghamshire, NG15 0EB
- **Website: www.chauvetprofessional.eu**
- U.K.
- **Voice:** +44 (0) 1773 511115
- **Fax:** +44 (0) 1773 511110

Chauvet Benelux

- **Address:** Stokstraat 18
- **Email: BNLtech@chauvetlighting.eu**
- 9770 Kruishoutem
- **Belgium Websit**e: **www.chauvetprofessional.eu**
- **Voice:** +32 9 388 93 97

Chauvet France

- **Address:** 3, Rue Ampère
- 91380 Chilly-Mazarin
- **Email: FRtech@chauvetlighting.fr**
- **France Websit**e: **www.chauvetprofessional.eu**
- **Voice:** +33 1 78 85 33 59

Chauvet Germany

- **Address:** Bruno-Bürgel-Str. 11
- 28759 Bremen
- **Email: DEtech@chauvetlighting.de**
- **Germany Website**: **www.chauvetprofessional.eu**
- **Voice:** +49 421 62 60 20

Chauvet Mexico

- **Address:** Av. de las Partidas 34 – 3B
- (Entrance by Calle 2)
- **Email: servicio@chauvet.com.mx**
- **Zona Industrial Lerma Website: www.chauvetprofessional.mx**
- Lerma, Edo. de México, CP 52000
- **Voice:** +52 (728) 690-2010

Warranty & Returns

For warranty terms and conditions and return information, please visit our website.
For customers in the United States and **Mexico: www.chauvetlighting.com/warranty-registration**. For
customers in the United Kingdom, Republic of Ireland, Belgium, the Netherlands, Luxembourg, France, and

Germany: **www.chauvetlighting.eu/warranty-registration**.

Documents / Resources

	CHAUVET PROFESSIONAL IPTESTER Portable Compact IP Testing Device [pdf] User Manual IPTESTER Portable Compact IP Testing Device, IPTESTER, Portable Compact IP Testing Device, IP Testing Device, Testing Device