



**LION**<sup>®</sup>  
ready for action

## R.A.C.E. STATION<sup>™</sup>

[ USER'S MANUAL

Original User Manual  
03/20



 **WARNING**

Improper installation, adjustment, alteration,  
service or maintenance can cause injury or property damage.

Read the setup, operation and maintenance instructions thoroughly  
before installing or servicing this equipment.

Failure to follow these instructions could result in  
property damage, personal injury, or death.

**NOTE**

Read and follow all instructions within the user manuals of any  
other optional equipment or accessories used in conjunction with  
the R.A.C.E. Station™.

# TABLE OF CONTENTS

1.	HOW THE R.A.C.E. STATION™ WORKS.....	2
2.	FOR YOUR SAFETY.....	3
3.	R.A.C.E. STATION™ PARTS AND ACCESSORIES.....	4
4.	R.A.C.E. STATION™ SPECIFICATIONS.....	5
5.	PRODUCT INFORMATION.....	6
6.	OPTIONAL ACCESSORIES.....	7
7.	LION SERVICE PLANS.....	8
8.	OPERATING INSTRUCTIONS.....	8
9.	SHUTDOWN/PUT AWAY PROCEDURE.....	18
10.	MAINTENANCE INSTRUCTIONS.....	18
11.	WARRANTY INFORMATION.....	19
12.	CONTACT INFORMATION.....	21

**SAVE THESE INSTRUCTIONS FOR FUTURE REFERENCE**

# 1. HOW THE R.A.C.E. STATION™ WORKS

## **Congratulations on the purchase of your new R.A.C.E. Station™.**

This state-of-the-art training tool uses a pull station, annunciator and extinguisher sensor to facilitate complete “R.A.C.E.-to-P.A.S.S.” training in conjunction with the LION BullsEye™ Digital Fire Extinguisher Training System. Features include a phone for trainees to dial their appropriate emergency phone number, as well as a smoke alarm to facilitate training on the use, placement, and maintenance of smoke alarms.

The R.A.C.E. Station™ provides maximum value when used in conjunction with the BullsEye™. The R.A.C.E. Station™ automatically communicates wirelessly with the BullsEye™ and tracks how long it takes trainees to perform certain tasks like triggering the pull station and in what order. Custom scenarios can easily be created to help enforce key training objectives, such as calling for help before attempting to extinguish the fire.

The R.A.C.E. Station™ can be optionally equipped with an electric cutoff prop which can be used in conjunction with the BullsEye™ or with the ATTACK™ Digital Fire Training System. Teach trainees how to respond to electrical fires, identifying the risk, and cutting power, prior to engaging the fire.

The R.A.C.E. Station™ can also be used as a standalone training tool. The R.A.C.E. Station™ is portable and can be set up in strategic locations so that your trainees must locate pull stations and extinguishers as they would in a real emergency. Additional props can be added to the system to further expand your training scenarios

## 2. FOR YOUR SAFETY



### WARNING

1. Always use in accordance with all applicable local, state, and national codes. Contact your local fire department or authority having jurisdiction for details on fire extinguisher training.
2. Do not use this appliance without reading the entire User's Manual.
3. Do NOT drop the R.A.C.E. Station™.
4. Do NOT alter or modify this appliance in any manner. The R.A.C.E. Station™ will not operate as designed or intended if modified.
5. Do NOT use in an explosive atmosphere.
6. When using this appliance, exercise the same precautions you would with any electrical device.
7. If you are unsure of anything in these instructions, **STOP** and contact **your distributor or LION** for assistance.
8. This product should not be used with any power source other than what has been provided. Use of other power sources is dangerous and will void the warranty.
9. **Death, serious injury, or damage to property may occur if the above is not followed exactly.**

### DISCLAIMER

Purchaser assumes all risk in the assembly and operation of this unit.

Failure to follow this manual's WARNINGS and instructions can result in severe personal injury, death, or property damage. LION is not responsible for any damage, death, or injury that may arise or result from improper or misuse of the R.A.C.E. Station™.

### **3. R.A.C.E. STATION PARTS AND ACCESSORIES**

#### **PARTS LIST**

To order replacement parts, contact your distributor or LION for assistance.

## 4. R.A.C.E. STATION™ SPECIFICATIONS

PHYSICAL SPECIFICATIONS	
<b>Kit Case Dimensions</b>	44.3" x 25" x 16.5" (112.40 cm x 63.5 cm x 41.91 cm)
<b>Kit Case Weight</b>	104 lbs. (47.3 kg) OR 120 lbs. (54.5 kg) with added optional ECO
<b>Kit Case Transport Features</b>	Pull handles with corner wheels
<b>Tripod Base Dimension</b>	36" (91.44 cm) dia. max. spread
<b>Tripod Height Adjustment</b>	45"-76" (114.30-193.04 cm)
<b>Tripod Weight</b>	5 lbs. (2.3 kg)
<b>Prop Box Weight</b>	6-6.5 lbs. (2.7-3.0 kg)
<b>Standalone Prop Case Dimensions</b>	45.1" x 16.0" x 13.0" (114.55 cm x 40.72 cm x 32.94 cm)
<b>Standalone Prop Case Weight</b>	31 lbs. (14.1 kg)
<b>Standalone Prop Case Transport Features</b>	Pull handles with corner wheels

ELECTRICAL	
<b>Input Power</b>	5 VDC, 0.75A
<b>Battery Life</b>	8 hr. minimum at full charge (battery life varies by prop)
<b>Strobe Brightness</b>	15/75cd
<b>Horn Volume</b>	89-96 dBA at 3 ft. (91.44 cm)
<b>Residential Alarm Volume</b>	83 dBA at 3 ft. (91.44 cm)

## 5. PRODUCT INFORMATION

### A R.A.C.E. STATION™ BOXES

The R.A.C.E. Station™ consists of a series of training props, each mounted on their own prop box.

1. Strobe Annunciator/Residential
2. Single Action Pull (or Push) Station
3. Extinguisher Bracket/Sensor
4. Electric Cutoff Switch

### B TRIPODS TO HOLD THE R.A.C.E. STATION™ PROP BOXES

Each R.A.C.E. Station™ Prop Box includes its own tripod. The tripods are quick to set up, height adjustable, and provide a stable platform for training.

### C NETWORK BRIDGE ADAPTER

The R.A.C.E. Station™ utilizes a central network hub known as a Network Bridge Adapter to wirelessly connect the props and manage their communication during simulations.

### D INTERACTIVE EMERGENCY PHONE

Designed to look and feel like a modern smartphone, the included Interactive Emergency Phone will add even more realism to the training scenario.





**E WIRELESS QI CHARGER (NOT SHOWN)**

The Interactive Emergency Phone features wireless charging capability. Set the phone on this stand and it will begin charging.

**F MULTIPOINT USB 12VDC POWER SUPPLY(S) (NOT SHOWN)**

Included with each R.A.C.E. Station™ are two Multiport USB power supplies.

- (QTY 1) 6-port capable of powering or charging all props simultaneously.
- (QTY 1) 2-port for powering the Network Bridge Adapter and/or Wireless Charger during use.

**G USB-C CABLE(S) (NOT SHOWN)**

- USER MANUAL
- LIMITED ONE-YEAR WARRANTY

*See Section 11 for more details on the warranty.*

**6. OPTIONAL ACCESSORIES****A SG1000™ SMOKE GENERATOR**

The SG1000™ Smoke Generator interacts wirelessly with the BullsEye™ Digital Fire Extinguisher Training System to add an appropriate amount of smoke to your training evolutions.



## 7. LION SERVICE PLANS

Need Assistance? Please see contact information on page 21.

## 8. OPERATING INSTRUCTIONS

### 8.1 SYSTEM SETUP AND INSPECTION

Unpack all parts, removing any packaging materials. Check for visible signs of damage that may have occurred during transport and contact your distributor or LION immediately to report any concerns.

#### 8.1.1 SETTING UP THE R.A.C.E. STATION™

1. Do NOT use the R.A.C.E. Station™ without reading the entire User's Manual first.
2. Review training location and plan where the Network Bridge and Stationary props will be setup.
  1. If you are using the system with a digital panel, ensure the Network Bridge Adapter is placed within 10 meters of the panel.
  2. Your first prop should be within 150 meters of the Network Bridge Adapter.
  3. Each additional prop should be within 150 meters of another prop or the Network Bridge.

Refer to the Distance Chart located in section 8.4.

Ranges listed above are based on an open-air environment. If your training is indoors where there are walls or other obstructions, you may need to consider shortening the distance between props.



FIGURE 1: NETWORK BRIDGE ADAPTER STATUS INDICATORS

3. Setup the LION Network Bridge Adapter as provided with your R.A.C.E. Station™.
  1. To setup this prop, simply plug the Network Bridge Adapter into power with the provided USB charger and USB C cable. It should quickly turn on, and the Link/Status indicator should illuminate solid green.
  2. There are four additional status indicators on the Network Bridge which indicate the status of each relevant R.A.C.E. Station™ Prop type once they are connected to the network, see figure 1.
4. For each stationary prop that will be used for training, first setup an accompanied tripod.
  1. Unfold the tripod and adjust the legs as wide as you are able and adjust the height to meet the needs of your training scenario.
  2. Make sure that the tripod is placed on an even surface and in a safe location.
5. Place the prop onto its associated tripod by simply sliding it over the top while holding both handles on the side, see figures 2-4.
  1. If using a prop with an accompanied wall-stop, be sure to attach it to the back of the prop and verify that it is making good contact with the wall in its resting position. Now the prop can safely be pushed without worry that it might tip over during training.
  2. If setting up the extinguisher prop, you can now attach the extinguisher to the hook.



FIGURE 2: PLACING PROP BOX ONTO TRIPOD

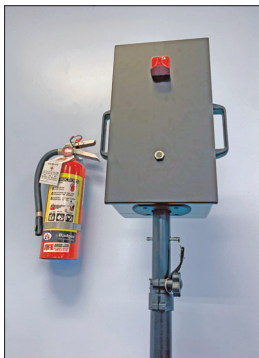


FIGURE 3: PROP BOX IN PLACE



FIGURE 4: EXTINGUISHER ATTACHED

continues ➤

6. To power on the prop, simply hold the power button until all four vertical indicators illuminate, and then release the power button. At this point, the prop should be ready for training.
  1. The status indicators will now indicate the level of charge of the internal batteries. Make sure that the prop has been charged to a sufficient level for your training, see figure 6.
  2. The Link Status indicator may briefly indicate with a solid red, but after a short time (1-3 seconds), it should change to green to indicate that it is within range of the network bridge, see figure 5.
    - i. If this indicator does not change to green within 5-10 seconds, refer to section 8.5 for troubleshooting instructions.
7. Repeat steps 2-4 until all stationary props are deployed.
8. If you are using the Interactive Emergency Phone prop during this scenario, this can now be setup with its wireless charging stand.
  1. If you are using the wireless charging stand, simply plug it into the provided USB power adapter in the intended location for your training and place the training phone onto the stand. It should quickly power up to indicate it is ready and charging, see figure 7.
  2. If you are not using the wireless charging stand, simply hold the power button on the side until the screen turns on.
  3. Once the phone is powered on, there will be a Bluetooth symbol in the notification bar to indicate the device is properly connected to the network.



FIGURE 5: POWERING ON PROP



FIGURE 6: PROP CONNECTED AND INDICATING FULL POWER



FIGURE 7: INTERACTIVE EMERGENCY PHONE ON WIRELESS CHARGING STAND

## 8.1.2 RUNNING TRAINING EVOLUTIONS WITH YOUR R.A.C.E. STATION™ 2.0

1. Before training, observe that all props are connected and in their correct initial state.
  - i. Observe that every prop has a green link status indicator.
  - ii. Observe that the bridge has each of the prop status indicators illuminated, for every prop being used in training.
2. After evolution is complete, be mindful to return each prop to its initial state so that another training evolution can begin.
  - i. For the call point prop, this means resetting the switch position. Your call point will feature either a key to reset the switch directly, or a thumbscrew to provide access to the inside of the case where the switch can be returned to its normal (open) position, see figures 8-9.
  - ii. For the ECO prop, the switch simply needs to be returned to its normal (closed) position.
  - iii. For the extinguisher stand, the Digital Extinguisher must be placed carefully back on the hook and reset by pressing the button on the side, see figure 10.
  - iv. Place the training phone prop back on the wireless charging stand.



FIGURE 8: RESETTING THE PULL STYLE CALL POINT



FIGURE 9: RESETTING THE PUSH STYLE CALL POINT



FIGURE 10: RESETTING THE EXTINGUISHER

continues >

### **8.1.3 USING ELECTRICAL CUTOFF WITH A BULLSEYE™ DIGITAL FIRE EXTINGUISHER TRAINING SYSTEM OR ATTACK™ DIGITAL FIRE TRAINING SYSTEM**

1. Setup your BullsEye™ Digital Fire Extinguisher Training System or ATTACK™ Digital Fire Training System as instructed in the provided User Manual
2. Setup your Electrical Cutoff prop and your LION Network Bridge adapter according to the operating instructions in section 8.1.1, with special care to ensure that the Network Bridge is within 10 meters of the ATTACK™ or BullsEye™ Panel.
3. Start a training evolution of an electrical fire on the BullsEye™ or ATTACK™. You will notice the arcing sounds of the electricity during the evolution. The fire will be very difficult or impossible to extinguish in this state.
4. Simulate an electrical disconnect using your Electrical Cutoff prop and observe that the arcing sounds diminish, indicating that the primary fuel source for the fire has been removed. At this stage, the evolution can be completed as normal for a combustible materials fire, and the fire can be extinguished.

### **8.1.4 USING THE R.A.C.E. STATION™ WITH A BULLSEYE™ DIGITAL FIRE EXTINGUISHER TRAINING SYSTEM**

1. Follow the setup instructions as detailed in starting in section 8.1.1 and be sure to setup the LION Network Bridge Adapter as detailed.
2. Setup your BullsEye™ as instructed in the BullsEye™ user manual.
3. The system should now automatically connect to and integrate with the BullsEye™. This will add new training features to your BullsEye™ training interface, as detailed in the BullsEye™ Extinguisher Training System user manual.

## 8.2 CHARGING YOUR BATTERY POWERED R.A.C.E. STATION™ PROPS

To charge your R.A.C.E. Station™ props, simply plug them into the provided power supply with the provided USB C cables. The stationary props will indicate that they are charging by blinking each battery indicator in an escalating pattern, see figure 11.

To charge your Interactive Emergency Phone prop, either plug it into the provided power supply with a provided USB C cable or charge it on the provided wireless charger. When plugged in, the screen will briefly turn on and the battery indicator will show a lightning symbol to indicate it is charging.

## 8.3 ADJUSTING THE R.A.C.E. STATION™ SETTINGS

### 8.3.1 CHANGING THE SOUND MODE OF THE ANNUNCIATOR PROP

The R.A.C.E. Station™ will use either the Industrial Annunciator or a Residential Smoke Alarm to alert the trainee. By default, when the Annunciator prop powers up, it will be configured to use the Annunciator.

If the trainer wants to use a residential alarm instead, they simply need to change the setting by double-pressing the power button. When the power button is double pressed, it will switch between those two modes and alert the user that the mode was switched by generating a small chirp from the selected sounder.




FIGURE 11: PROP BOXES  
CHARGING IN THE CASE

continues >

### 8.3.2 CHANGING THE EMERGENCY MESSAGE ON THE TRAINING PHONE PROP


The training phone prop will always have a default emergency message that can be used, but a new message can be recorded directly on the phone and selected instead.

To record a new message, power on the phone and navigate to the settings menu by pressing the  button, and press the dropdown menu associated with the “Message” button. Here, you can select the default emergency message, the custom audio message, or record a new custom audio message.


See figures 12-13.

To record a new message, select the “New” option, and begin speaking your new message into the microphone when indicated. The maximum message length is 30 seconds. When your recording is complete, press the “Finish” button to end the message. See figure 14.

**Tip:** The microphone is located at the bottom face of the training phone prop. Speak clearly into this location for best quality.

Once the message is recorded, you can play it back if desired and save it by pressing the  button.

### 8.3.3 ADJUSTING THE TRAINING PHONE PROP VOLUME

The volume of the message and ringer can be adjusted by pressing either the volume up/down buttons on the side of the page, or adjusting the volume slider in the  menu

### 8.3.4 ADJUSTING THE TRAINING PHONE SCREEN BRIGHTNESS

The brightness of the screen can be changed with the slider in the  menu.



FIGURE 12: SETTINGS SCREEN



FIGURE 13: MESSAGE DROPDOWN

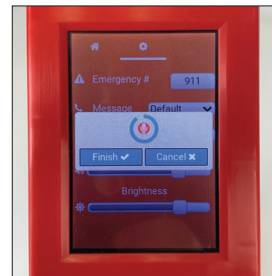



FIGURE 14: RECORDING A NEW MESSAGE



### 8.3.5 CHANGING THE LANGUAGE/LOCALE OF THE TRAINING PHONE PROP

The language/locale of the training phone prop can be changed in the dropdown menu associated with the “Language” setting in the  menu, see figure 15.

### 8.3.6 CHANGING THE EMERGENCY PHONE NUMBER OF THE TRAINING PHONE PROP

Change the emergency phone number in the  menu with the “Emergency #” button. When the dialer opens, simply enter the new number and confirm the choice to change the number.

### 8.3.7 SETTING THE ANNUNCIATOR VOLUME AND STROBE BRIGHTNESS

The annunciator volume and strobe brightness can be changed if desired. These settings are changed using a dial and slider inside the annunciator. The annunciator is set to the lowest setting by default and is also dampened to further reduce the volume, see figure 16.

1. Loosen the Phillips screw on the face of the annunciator at the bottom center. The screw is captive and will not come out of the unit even though it is loose.
2. Carefully pull the annunciator face out and up, away from the prop.
3. The volume and annunciator patterns are changed by rotating the dial labeled “Audio Select”.
4. The strobe brightness is set using the slider on the bottom back of the annunciator. The setting is shown in a small window on the front of the annunciator below the strobe. Use only the 15 or 15/75 settings with the R.A.C.E. Station™. The strobe is not listed for the operating voltage when set to any other candela setting, see figure 17.



FIGURE 15: CHANGING THE LANGUAGE



FIGURE 16

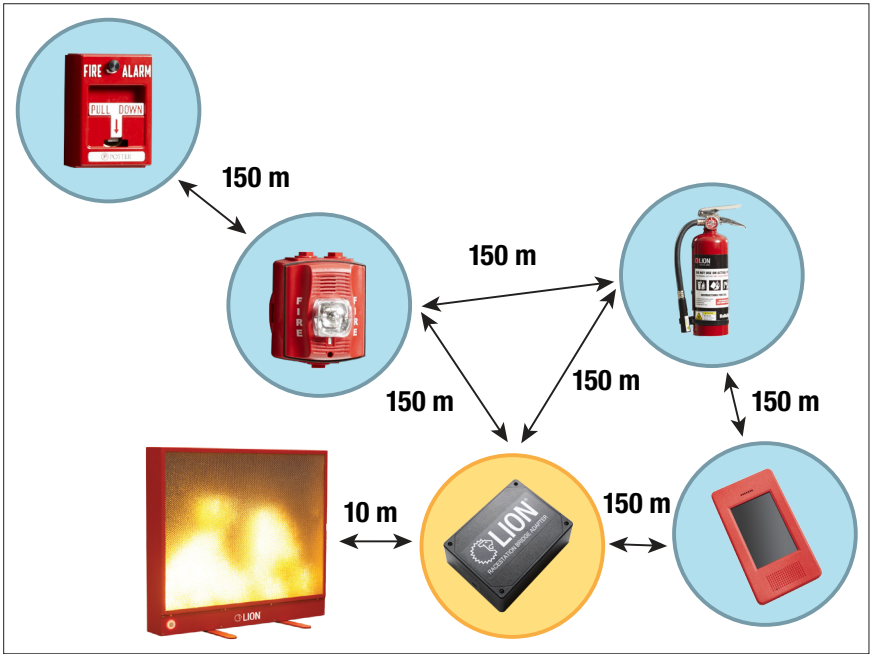


FIGURE 17

continues 

## 8.4 SETTING OPTIMAL DISTANCE BETWEEN PROPS

Having the props setup and within operating range will help alleviate most of the errors listed in the troubleshooting section. Use the chart below along with the details outlined in section 8.1.1, step 2 to optimize setup.



## 8.5 TROUBLESHOOTING

### 8.5.1 ALL PROP LINK INDICATORS ARE SOLID RED

This means that your network bridge adapter is not powered on, not in range, or it is malfunctioning. Make sure that it is powered on, its link indicator is solid green, and it is within range of the other props.

If bringing props in range of the network bridge does not resolve the issue, try resetting the network bridge by unplugging it for five seconds and plugging it back in.

### 8.5.2 ONE PROP LINK INDICATOR IS SOLID RED OR SWITCHING BETWEEN RED AND GREEN

This means that this prop is out of range or nearly out of range. Simply move it closer to another prop which is in range until the light is solid green consistently.

If the link remains red even when within a reasonable range, try powering down the prop and powering it back on.

### 8.5.3 ONE PROP IS STEADILY BLINKING RED

This means that the prop has been unpaired from your network which can sometimes happen after a software update or when receiving a new prop with factory settings. If this happens, simply plug it into the Network Bridge Adapter until the light turns solid green. This should take between 5 and 15 seconds.

## 9. SHUTDOWN/PUT AWAY PROCEDURE

1. Power down each device. For the battery powered stationary props, simply hold the power button until the indicator lights flash. At this point, the power button can be released, and all lights should be off indicating that it is safely powered down.
2. Power down the Training Phone prop by holding the power button until the screen turns off. To be sure it is powered off, you can press the power button once with a short press to make sure the screen does not come back on.
3. Power down the Network adapter by simply unplugging it.
4. Place all equipment back into the transport case, see figure 18.
  - a. Put each tripod and props back into the case. The tripods should be neatly stacked into the internal plastic box, and each prop must be placed into a cutout that will fit it.
  - b. Neatly bundle all wires and place all accessory equipment light chargers, power supplies, and wires into the provided box. Place this box in the provided cutout in the case
  - c. Secure each piece of equipment with the provided Velcro® straps.

## 10. MAINTENANCE INSTRUCTIONS

### GENERAL MAINTENANCE

Store the R.A.C.E. Station™ and accessories in a cool, dry area when not in use. The residential fire alarm does use a standard battery, which will beep when it is close to its lifespan and needs to be replaced.



FIGURE 18: R.A.C.E. STATION™ IN TRANSPORT CASE

## 11. WARRANTY INFORMATION

All parts such as stainless steel sheet metal components and controls are covered and LION will provide replacement parts free of charge during the warranty period. The warranty period shall begin on the ship date and continue for one full year. Batteries are covered under this warranty for a period of ninety days from the ship date. Labor related to warranty repair is covered free of charge during the warranty period. Repair work, however, requires the prior approval of an authorized company official. Labor costs to the account of LION are based on a predetermined rate schedule and any repair work must be done through an authorized LION dealer. This warranty covers labor and parts related defects. This warranty does not cover neglect, accidents, misuse, or negligence on the operator's part.

### CONDITIONS AND LIMITATIONS

LION warrants its products against manufacturing defects to the original purchaser only – i.e., the individual or legal entity (registered customer) whose name appears on invoice for the R.A.C.E. Station™, provided that the purchase was made through LION or an authorized LION dealer and is subject to the following conditions and limitations:

This factory warranty is nontransferable.

Assembly and use must be done in accordance with the instructions included with the product and all local and national fire codes.

This Limited Warranty does not cover any damage caused by misuse, lack of maintenance, hostile environments, accident, alterations, abuse, or neglect. Parts installed by other manufacturers will void the warranty.

This Limited Warranty does not cover scratches, dents, or corrosion. Abrasive and chemical cleaners will also damage the appliance. In the first year, this warranty extends to the repair or replacement of warranted parts which are defective in material or workmanship provided that the product has been operated in accordance with the operation instructions and under normal conditions.

After the first year, LION will not be responsible for replacement part expense, installation, labor or any other costs or expenses related to the reinstallation of a replacement part, and such expenses are not covered by this warranty.

Notwithstanding any provisions contained in this Limited Warranty, LION's responsibility under this warranty is defined as above and it shall not in any event extend to any incidental, consequential or indirect damages.

This warranty defines the obligations and liability of LION with respect to the LION electronic appliance and any other warranties expressed or implied with respect to this product.

This limited warranty does not cover damages resulting from the use of components not supplied with the appliance.

Any damages to appliance due to weather, long periods of exposure to dampness, condensation, damaging chemicals or cleaners will not be the responsibility of LION.

The original bill of sale or copy will be required together with a serial number and a model number when making any warranty claims from LION or authorized dealer.

LION reserves the right to have its representative inspect any product or part thereof prior to honoring any warranty claim.

LION or its representatives shall not be liable for ANY transportation charges, labor charges or duties.

## 12. CONTACT INFORMATION

### LION

North America | South America  
7200 Poe Avenue, Suite 4000  
Dayton, OH 45414, U.S.A.  
info@lionprotects.com  
800-548-6614 (PPE)  
888-428-5539 (Training)

Europe | Middle East | Asia  
Industrieweg 5, 5111 ND  
Baarle-Nassau, The Netherlands  
infoEMEA@lionprotects.com  
0031-13-507-6800



[WWW.LIONPROTECTS.COM](http://WWW.LIONPROTECTS.COM)

---

[ Manufactured in the USA

© LION Group, Inc. All rights reserved.