



**LION**<sup>®</sup>

ready for action

## SMARTDUMMY™ EXTRICATION



[ USER'S MANUAL

ORIGINAL  
USER'S MANUAL

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## Contents

1	General description	2
2	Construction materials and technical specifications	2
3	Use	3
4	Inspection and maintenance	3
5	Safety measures and instructions	4

## 1 General description

The SmartDummy™ Extrication training dummy was designed for rescue work training exercises. It can be dragged and/or carried out of smoke-filled areas, tunnels and vehicles. SmartDummy™ Extrication will willingly play the role of a victim during literally thousands of rescue operations.

SmartDummy™ Extrication is also a very handy tool for training exercises involving the transport of wounded people, rescuing groups of people, respiratory protection (sound-based search) and survival tests.

Beside that he offers the possibility of simulating various serious injuries such as a severed leg or arm and impalement on a steel tube, for example.

## 2 Construction materials and technical specifications

### General:

Appearance-wise, SmartDummy™ Extrication has form of a human body and is made of heavy-duty canvas, reinforced with polypropylene strips in important areas. He is also fitted with rubber boots to facilitate dragging.

The left leg and arm are detachable. They are attached to the dummy with clasps.

He is filled with foam and weighed down with gravel, which gives him the necessary flexibility in the appropriate places and makes him suitable for the Rautek grip.

The head has an opening which allows an "ACV Box" (Adjustable Call Voice Box, a speech function) to be installed to facilitate more realistic training exercises. This opening can be closed off with a Velcro flap.

### Dimensions and weight:

Total length of training dummy including boots:	approx. 180 cm
Total weight:	approx. 24 kg
	approx. 48 kg
Colour:	blue/black

### Conditions suitable for use:

Permissible ambient temperature: Continuously: maximum 40 °C; brief periods (10 min.): maximum of 60 °C; incidentally, for a maximum of 1 minute: 80 °C.

Be careful with radiant heat; the surface temperature of the training dummy can rise very quickly!

SmartDummy™ Extrication is **not** suitable for simulating accidents in water.

Dragging the dummy will cause extra wear and tear on the outer layer; sharp objects and/or hot surfaces can damage the outer layer.

## 3 Use

### Deploying the dummy

It is advisable to use training dummies for all exercises during which wounded persons are rescued from a dangerous situation. This prevents situations from arising in which a person playing the role of the victim is exposed to unnecessary risks. This is particularly true of exercises that involve the use of compressed air equipment or actual fire.

### Applications

SmartDummy™ Extrication can be used for practising most rescue operations except for accidents in water and exercises at extreme temperatures.

Transport grips such as the Rautek grip can be used. However, LION draws your attention to the fact that the applicable Health, Safety and Environment regulations must be complied with.

An ACV Box can be installed to simulate a realistic exercise in which the dummy actively sends out signals indicating its position. This is an electronic device which can record and play back speech. This makes it possible for the dummy itself to indicate what the problem is or to give information about other victims. For search and rescue exercises, the ACV Box can also be used as a sound beacon. The ACV Box is a so-called “Voice Operated” system. By calling out to it, one can activate the ACV Box, which will then play back the pre-recorded message. It is also possible to have the message continually repeated.

## 4 Inspection and maintenance

### Inspection before and after use

Before and after use, check the dummy for damage. Minor damage can often be repaired. However, if a damaged dummy is used for a training exercise, the damage may increase to such an extent that it will no longer be possible to repair and use the dummy again.

### Cleaning and storing the dummy

The outside of the training dummy is made of strong canvas material and is generally easy to clean. When used in dirty surroundings, overalls can be used for protection, and after being used, normal washing procedures can be applied.

If necessary, the training dummy can be cleaned using a cloth, which can be moistened with water and an all-purpose cleaner if necessary. Heavy-duty cleaners or solvents should not be used.

If the dummy becomes wet or damp during use or while being cleaned, hang it up until it has completely dried before storing it.

### Decontamination

If the dummy is exposed to a hazardous substance during a training exercise, then it should be decontaminated together with the other materials used in a manner appropriate for the material concerned.

### Repairs

If repairs are necessary, they should be carried out by LION. These cannot be implemented on site.

## 5 Safety measures and instructions

### Safety measures

The SmartDummy™ Extrication training dummy should be treated carefully, just like any other valuable training tool.

It has been designed for normal use such as can be expected during simulated training exercises. Dragging the dummy by one of its limbs or its head can cause damage to the outer layer. If you allow the training dummy to fall from a considerable height, the outer layer could possibly be torn open. High ambient temperatures can also cause permanent damage.

If the dummy becomes contaminated with a hazardous substance, it should first be decontaminated before doing anything else with it.

Bending or turning limbs in a fashion that is too extreme for the dummy to withstand or adding extra weight exceeding the total weight of the training dummy is not permitted.

When making preparations for an exercise and/or training session, one should make sure that no sharp or hot materials are present at the location where the training dummy will be placed.

SmartDummy™ Extrication is **not** suitable for simulating accidents in water.

### Recommendations and safety instructions

Before starting the exercise and/or training session, the participants should be informed that the training dummies are to be moved in accordance with the normal transport techniques. If a weighted jacket is used, the participant should be informed of the weight involved. The weights used in combination with an incorrect transport technique can cause back problems and/or muscle damage.

The training dummies are not suitable for use at high temperatures. High ambient temperatures or radiant heat from a fire can damage the outer layer. The outer layer is not fireproof.



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