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LEVEL-LIFT ROOF

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USER MANUAL

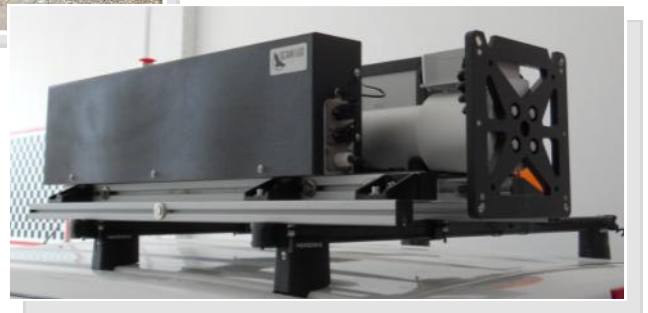
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Lifting extensible system for vehicle roof

Level-Lift Roof has been created in order to take advantage of the Level-Plane 16R for land, infrastructural, architectural and structural surveying.

It's composed of 4 pneumatic extensible segments (max 3.00 m height), a support plate for Level-Plane16R and a solid frame that allows mounting on the roof rack of any vehicle. The system is made from anodized aluminum.



WARNING!!!!

**READ CAREFULLY THE PRESENT INSTRUCTION
MANUAL BEFORE USING THE EQUIPMENT**

**IT IS STRICTLY FORBIDDEN THE USE OF THE
EQUIPMENT BY PEOPLE AGED LESS THAN 18**

MOUNTING AND USE INSTRUCTIONS

1° STEP

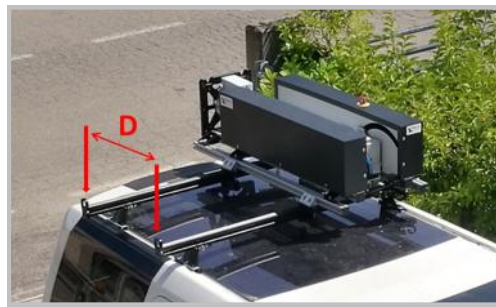
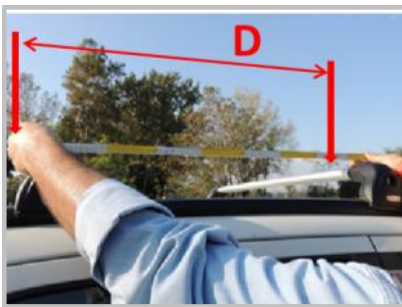
The Level-Lift Roof is shipped in a wooden box, specially designed to insure the integrity of the product during the transportation.



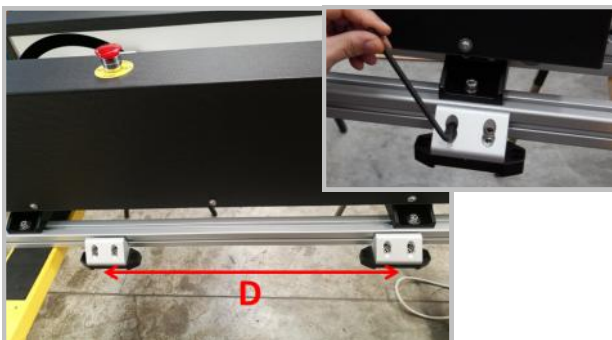
Open the hooks and remove the screws that keep the cover of the box closed. Remove the black plastic ties that keep the equipment blocked inside the box and extract the system.

2° STEP

Install the pole on the vehicle's bars, as follows:



Measure the distance (D) between the roof bars of the vehicle



Fix the upper blocks at the correct distance



Insert the long bolts and the lower block



Screw the knobs till you block the support on the bars

CONTROLLER



COMANDS FOR:

1	UNLOCKING THE PUSH-BUTTON PANEL + MAKING THE POLE RISE
2	POSITIONING THE COLUMN WHEN "STILL"
3	ACTIVATING THE PNEUMATIC DISCENT OF THE POLE
4	LIGHT FOR CONTROLLING THAT THE COMAND IMPULSE HAS BEEN GIVEN
5	IMMEDIATE STOPPING THE "STILL" POSITION
6	UNLOCKING THE BOTTON-PUSH PANEL
7	CHECKING POWER SUPPLY
8	LIGHT FOR CONTROLLING THE POWER SOURCE

HOW TO USE THE CONTROLLER

To avoid the accidental activation of the pole as well as to make it functioning, it is necessary to activate the push-button panel, that is normally locked.

To activate it, PRESS THE GREEN BUTTONS 1 and 6 AT THE SAME TIME.

The light of the button n. 4 gets lighted when any button is pushed.

If the light gets illuminated it indicates that the input of the command has been received.

For ckecking the power supply press button n. 7, if positive the led n.8 gets illuminated.

3° STEP

Proceed with the installation of the Level-Plane 16R with Quick Bracket (see the User manual of the Quick Bracket) on the top of the pole (A). Insert the two pivots inside the holes of the plate.

Fix the Level-Plane 16R using the four knobs provided (B) .



Connect the cable between the pole and the Level-Plane 16R (keyboard).



Connect the Level-Lift Roof cable controller to the plug (1).

Proceed in the same way for the power cable (2) and the controller of the Level-Plane 16R (3).



A	CABLE CONTROLLER
B	POLE POWER CABLE
C	LP16R CONTROLLER

Connect the power cable to the car lighter with at least 16A (180W) of power and 12V.



Check that the emergency button is not activated.

Unlock the pole by pushing the two opposite buttons on the panel in the same time, with the simbol of a lock (A).



(A)

RISING OF THE POLE

To rise the pole push the **green** button (B).



(B)

As long as you push the green button, the extensions will continue rising until the maximum height.

Once the engine of the vehicle is off and the pole fully extended the system remains firm during the scan session.



1° section



2° section



3° section



4° section

4° STEP

Now it is possible to activate the automatic leveling with the Level-Plane 16R.

By pushing the button 0° the "AUTOMATIC LEVELING" will appear on the screen of the control unit.

It will disappear once the leveled position has been reached. (see *Level-Plane's user manual*)



5° STEP

CLOSING OF THE POLE

Once the measuring procedure is terminated, lower the extensions keeping the button in the middle pushed.



For the complete closure of the pole, press the yellow button.



DURING THIS PROCEDURE BE
VERY CAREFUL.
AVOID OBJECTS TO INTERJECT BETWEEN THE POLE AND THE
FRAME BELOW

REQUIREMENTS FOR SAFE USE

Level-Lift Roof is delivered tested and ready for use.

Regarding the Use and Maintenance instructions please refer to the separate manual issued by the Manufacturer of the extensible pole that is delivered together with this.

To ensure optimal operation of the inside air compressor during the lifting of the extensions is suggested: to secure the immovability of the vehicle by activating the parking brake; to keep the vehicle engine running until you reach the desired elevation; to turn off the engine and to proceed with the automatic leveling.

Never activate the extensible pole with the vehicle in motion and without making sure the parking brake is engaged.

The movement with the mounted instruments is possible **ONLY WITH ONE (first) EXTENSION OPENED**, on the job sites, with max speed of 5 km/hour, avoiding pitching, vibrations, excessive inclination.

The bars of the vehicle on which the mechanism is installed must have an adequate payload (min. 75 Kg/cad) and must be properly installed according to the manufacturer's instructions.

Periodically check that all bolts are properly tightened.

The manufacturer is not liable for:

- ⇒ improper use of the mechanism;
- ⇒ damage produced to the platform or to the supporting bars because of the road march;
- ⇒ Unauthorized product modifications or alterations;
- ⇒ non-compliance with safety regulations, and other applicable according to the specific use of the product (for example regulations of transport for moving the platform mounted on the vehicle's roof from one site to another);
- ⇒ total or partial non-observance of the instructions and/or lack of maintenance;
- ⇒ use of non-original or non-specific spare parts for the model;
- ⇒ extraordinary environmental events.

Prohibited the use of the Level-Lift Roof in the installer mode different from the original configuration and delivery processes other than those provided by the manufacturer.

Prohibited the use of the Level-Lift Roof in presence of functional anomalies and discrepancies in the rules of use and safety instructions given in this manual. If needed, please ask and wait for intervention of the staff in charge.

- The instructions, drawings and documentation contained in this document are of confidential technical nature, of property of the manufacturer and may not be reproduced in any manner, either wholly, or in part.
- The manufacturer reserves the right to make changes and improvements at any time, without any modification to this manual, and without prior notice.
- This document must be kept for future reference, until the scrapping of the machine and must be made available to the operators.
- If the unit is sold or leased, both the person who rents and the one who offers the service, is obliged to give the manual to the new owner or user.
- The original instructions are provided by the manufacturer in the Italian language.
- This document assumes that in the places where the equipment is sold, users respect the safety standards in force in the country.
- If the manual is lost or damaged, you can request a copy to the dealer, providing the data of the model, serial number and year of construction.
- Do not use the manual for any purpose other than the use and maintenance of the product.

CLEANING INSTRUCTIONS

- Clean with mild soap and water, do not use chemical cleaners.
- Do not lubricate with grease or oil of any kind.



INSTRUCTIONS FOR DEMOLITION

The demolition of the machine must be done by qualified personnel in such activities and provided with adequate expertise.

The disassembled components must be separated according to the nature of the materials they are made in compliance with the laws in force of "separate waste collection and disposal".

In reference to the European Directives WEEE (waste electrical and electronic equipment) the electrical and electronic components, marked with symbol must be disposed of in special authorized collection centers or returned, installed on the machine, to the retailer when a new purchase.

Electrical and electronic equipment waste may contain substances that may pollute the environment and the people for whom it is recommended to dispose of them properly.

The illegal disposal of electrical and electronic components shall be punished with sanctions by the laws in force in the territory in which it is found that infringement.

WARRANTY

- **The product warranty is of 12 months from the date of the Invoice.**
- SCAN & GO S.r.l. will support, at its discretion, the repairment and / or replacement of parts with manufacturing defects or damages during the warranty period, after having evaluated the fail-ure.
- The shipping cost of the damaged/defective parts during the warranty period, and the labour for its removal and replacement , are not included in the warranty, and may be approved only after prior written request and consequent authorization.
- The warranty does not cover cases of normal wear and tear, negligence in use, improper maintenance and improper use.
- The warranty lapses in case the 'machine' is equipped with non-original accessories or parts.
- In no event SCAN & GO srl will cover the expenses, for loss or damage of any kind resulting from the use more or less correct or from the partial or total malfunctioning of the equipment.
- The goods travel at the risk of the recipient, any damage incurred during the shipment must be claimed at the delivery by the courier in charge.

The manufacturer is deemed non-responsible in the case of:

- 1) inappropriate use of the LEVEL-LIFT ROOF
- 2) use of the equipment, against to any other applicable national regulations;
- 3) serious lack of attention in the maintenance;
- 4) interventions or unauthorized modifications;
- 5) use of non-original parts or replacing parts;
- 6) failure to comply, in whole or in part, of the instructions;
- 7) exceptional events.

TECHNICAL DATA

- | | |
|---|---|
| • Dimensions closed system | 125 x 48 x h. 35 cm |
| • Extended pole height | 3,00 mt |
| • Extension | 4 |
| • Maximum load | 45 kg |
| • Weight | 55 Kg |
| • Power supply | 12V 16A (absorption maximum load of the air compressor) |
| • Maximum operating limit of recovery slope of the ground in the longitudinal axis of the vehicle | Total 20° of which 0° +/-10° |
| • Maximum operating limit of recovery slope of the ground along the perpendicular axis to the vehicle | Total 20° of which 0° +/- 10° |
| • Temperature limit for use of the equipment | - 15° C + 40° C |
| • Temperature limit for the storage of equipment | - 30° C + 50° C |

Notes



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