

ECARTONIE

PROFESSIONAL CAMERA SUPPORT

LIFT O
25 ✓

USER'S MANUAL
& Maintenance



Thank you for choosing the **LIFTO 25** Motorized elevation column manufactured by **CARTONI**. The **LIFTO 25** has been designed and built using the state-of-art technologies and procedures in order to guarantee maximum reliability over time, as well as total safety for its users.



! In order to properly and safely use the **LIFTO 25** Motorized elevation column read this manual and follow the instructions.

! All back-up material, and this manual in particular, should be stored in a safe place for future reference.

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! **CARTONI** holds the right to revise or change this publication without any prior advice to any person or organization.

DISCLAIMER

CARTONI certifies that the information contained in this manual is correct at the time of printing. **CARTONI** reserves the right to update or change any specification, design and/or functionality of the product and the relevant information at any time and without notification. Updates in the documentation will be incorporated in the new release of the same. For the updated version please consult the latest release on our website www.cartoni.com.

DECLARATION OF CONFORMITY

CARTONI declares that this product has been manufactured in accordance with standards ISO 9001:2015 and complies with the EC Directive 2001/95/CE.

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IT IS HEREBY CERTIFIED THAT THE QUALITY MANAGEMENT SYSTEM OF

CARTONI S.P.A.

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NELLE SEGUENTI UNITÀ OPERATIVE / IN THE FOLLOWING OPERATIONAL UNITS

VIA DI PORTONACCIO, 33/B 00159 ROMA (RM) ITALIA

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PROGETTAZIONE, FABBRICAZIONE ED ASSISTENZA POST-VENDITA DI PRODOTTI PER LA CINEMATOGRAFIA E LA TELEVISIONE PROFESSIONALE. COMMERCIALIZZAZIONE DI PRODOTTI ED ACCESSORI IN CONCESSIONE PER LA CINEMATOGRAFIA E LA TELEVISIONE PROFESSIONALE

IAF: 17
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Prima emissione First Issue	12.06.2009	Data decisione di rinnovo Renewal decision date	24.05.2021
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Amicare Rini

Rome Management System
Certification, Head



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1. INTRODUCTION

The correct and safe use of the **LIFTO 25** is only guaranteed if it is used in accordance with the following manual and other documentation that accompanies the **LIFTO 25**. It is therefore essential to read all the documentation carefully and to keep it in a safe place.

It is necessary to always make sure that all the operators have completely read and understood the instructions. **CARTONI** accepts no responsibility for damage to persons and/or property consequence to the improper use of the **LIFTO 25**.

Do not remove or deface any label, indication and warning affixed to the **LIFTO 25**.

CARTONI declines all responsibility for the failure to observe the standards of safety and prevention detailed in the various sections of this manual and for injuries caused due to improper use.

Any modification to the **LIFTO 25** must have prior authorization by **CARTONI**.

All the standard maintenance operations (maintenance, repairs, cleaning and adjustments) should be carried out by competent personnel as prescribed in the manual.

1.1 WARRANTY

The **LIFTO 25** is covered by a warranty against manufacturing defects for 2 years from the date of shipment.

The warranty covers replacement of any defective part and the labor required excluding transport/duty costs.

In the case of replacement of single parts, these can be supplied free of charge by **CARTONI**, but the owner will bear the cost of transport/duty charges for the parts.

The warranty is only valid if the support has been used properly as outlined in the manufacturer's instructions and has not been exposed to any mishandling. The warranty will be immediately invalid if modifications and/or

repairs are carried out by unauthorized persons otherwise authorized by **CARTONI**.

Components subject to wear and tear are not covered by warranty.

The warranty is also invalidated by one of the following events:

- Failure to comply with payment conditions
- Failure to carry out appropriate maintenance
- Removal or mistreatment of marks and/or labels containing data and technical specification.

CARTONI accepts no responsibility for damage to the **LIFTO 25** caused by improper use or the malfunction of other equipment connected to the Camera support.

In any case, the warranty only covers damage and/or malfunctions and does not entitle the purchaser/owner to claim any damages for loss of production time due to assumed or proven damage caused by and/or connected to the **LIFTO 25** itself.

1.2 AUTHORIZED PERSONNEL

Extraordinary maintenance and repairs to the **LIFTO 25** can only be carried out by competent persons who are either employed, trained or authorized by **CARTONI** in writing.

Any information regarding repair/maintenance service stations can be obtained from **CARTONI**.

1.3 DEVICE IDENTIFICATION AND CE PLATE

The **LIFTO 25** can be identified by the plate placed on the motorized elevation unit, below the tripod base. The serial number is engraved on the tripod base itself.



The CE plate must be kept intact and visible as it contains the main information regarding the marking of the machine, namely:

- Company name and address of the manufacturer (a);
- CE mark (b);
- Identification of the machine – commercial name (c);
- Year of construction (d)



“A machine is an assembly equipped with an actuation system other than direct human or animal force, composed of parts or components, at least one of which is mobile, solidly connected to each other for a specific application; therefore a case of "machine" is configured, as defined in Article 2, letter a) first indent, of Directive 2006/42/EC”, which is therefore certified with the EC Declaration of Conformity pursuant to Annex II, part 1 section A., by the manufacturer **CARTONI S.P.A.**

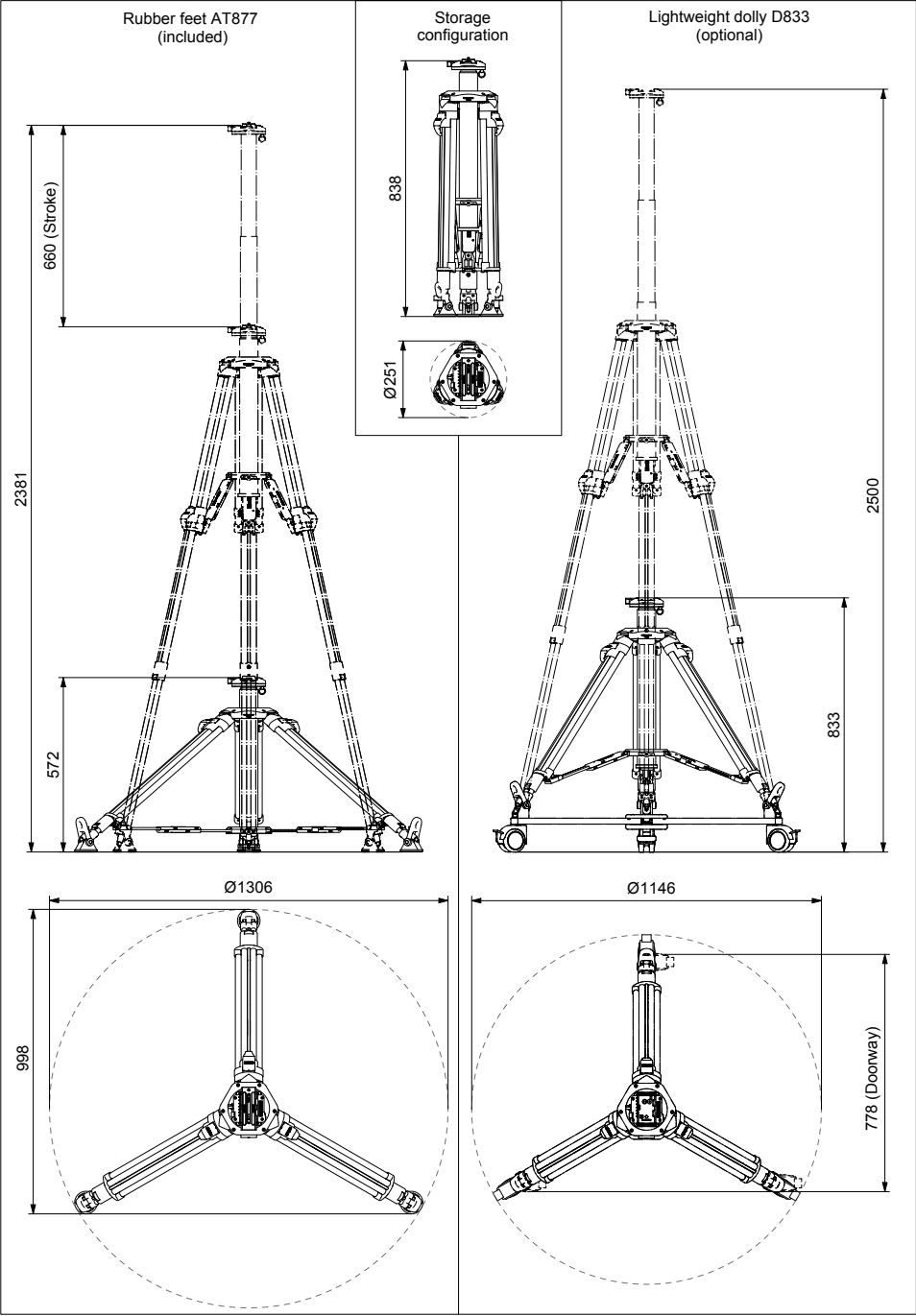
1.4 IN THE BOX

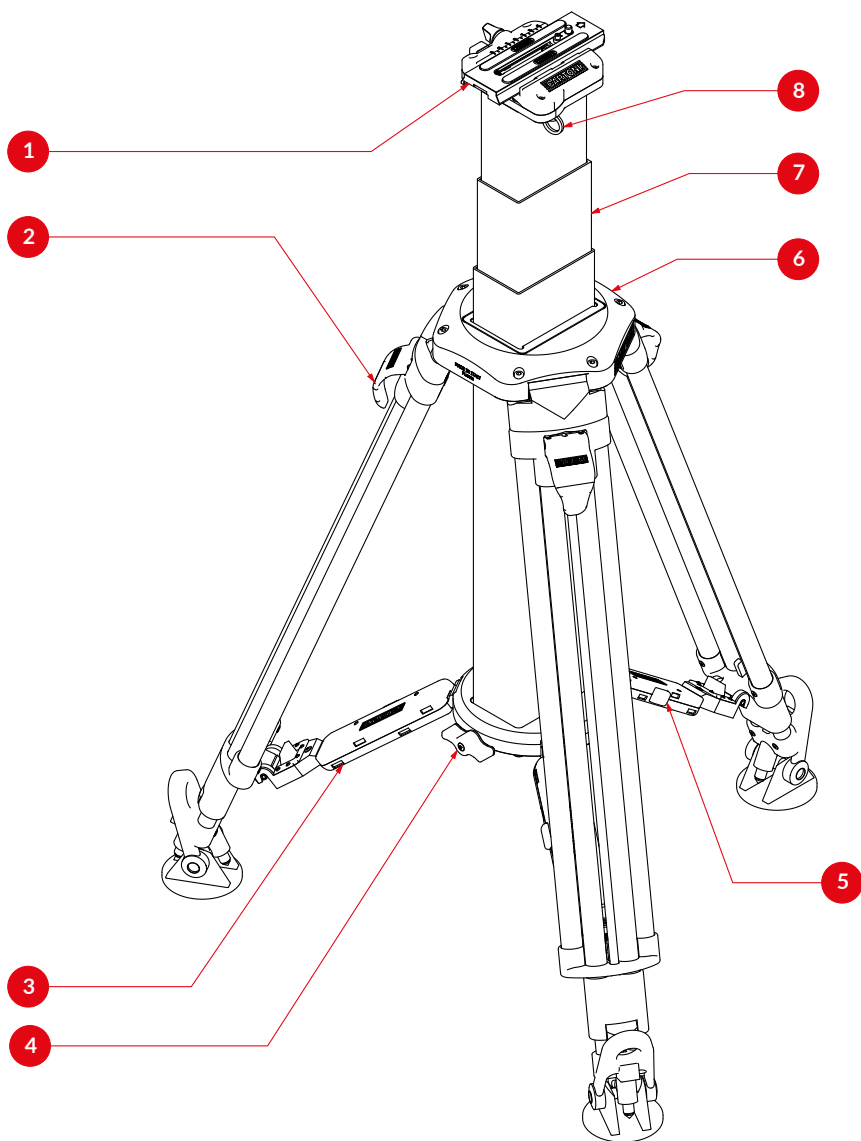
- **LIFTO 25** motorized column;
- SDS 2 stage **LIFTO 25** tripod;
- **LIFTO 25** multi-level smart lock spreader;
- Rubber feet (AT877);
- Quick release camera plate (AH943);
- Power supply dual voltage;
- Control device;
- Motor cable 2.5 m [8.2 ft];
- Motor cable extension 2 m [6.6 ft];
- RJ 45 coupler;
- EU power plug;
- Self-winding cables protective sock;
- Cable bag;
- Safety ring (wiring strain relief + PTZ safety leash) (ato0040).



2. LIFTO 25 Motorized Elevation Column

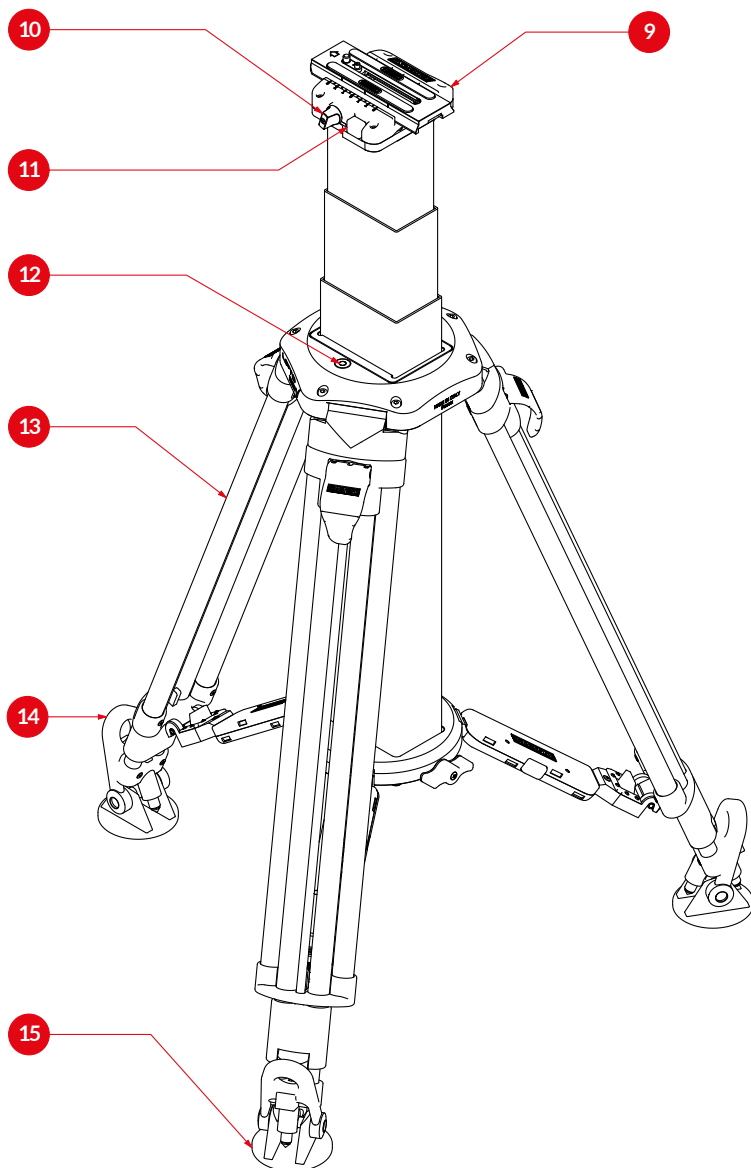
Overview





- 1** Quick release camera plate
- 2** Extendable leg clamping lever
- 3** Multi-level smart lock spreader
- 4** Spreader knob

- 5** Multi-level smart lock spreader adjusting button
- 6** Tripod base
- 7** Motorized elevation unit
- 8** PTZ safety ring



9 Quick release camera plate support

10 Quick release tightening knob

11 Quick release safety button

12 Bubble level

13 Extendable leg

14 Foot rubber restraint

15 Tripod orientable foot

2.1 SAFETY WARNINGS

The equipment used with the **LIFTO 25** should comply the following specifications:

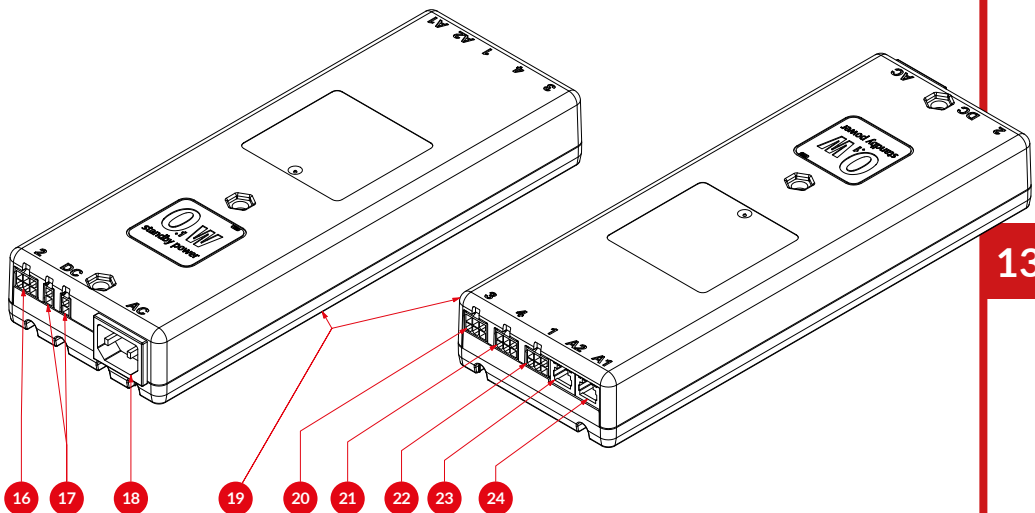
- Maximum weight: 25 Kg (55.1 lbs)
- Weight distribution must verify that the centre of gravity (CG) of the mounted elements stays well inside the opened pedestal base triangle.

2.2 TECHNICAL SPECIFICATIONS

Weight	11.8 kg	26 lbs
Maximum payload	25 kg	55.1 lbs
Speed	38 mm/s	
Column interface fixing method	Quick release camera plate	
Stroke	660 mm	26 in
Minimum height	572 mm	22.5 in
Maximum height (feet)	2381 mm	93.7 in
Maximum height (dolly)	2500 mm	98.4 in
Overall dimensions	Ø251 x 838 mm	Ø9.9 x 33 in
Footprint diameter (minimum height)	1306 mm	51.4 in
Input voltage	24 V	
Maximum current consumption	9 A	
Duty cycle	10 %	
Operational temperature	-10°C/+40°C	-14°F/104°F

- Quick release camera plate;
- Soft start/stop;
- 3 storable positions;
- Ultra-silent operation;
- On-air operation mode available.

3. POWER SUPPLY OVERVIEW



- 16** Motorized elevation unit output port "2"
- 17** DC input port
- 18** AC input port
- 19** Power supply unit
- 20** Motorized elevation unit output port "3"
- 21** Motorized elevation unit output port "4"
- 22** Motorized elevation unit output port "1"
- 23** Control device input port "A2" (RJ45)
- 24** Control device input port "A1" (RJ45)

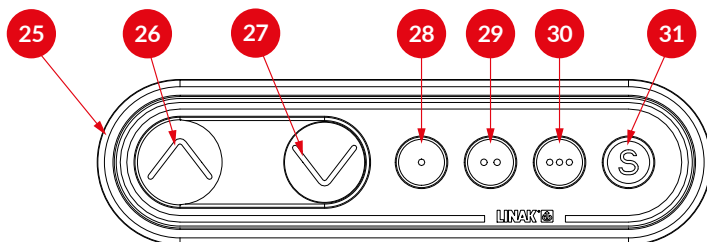
3.1 TECHNICAL SPECIFICATIONS

Weight	0.5 kg	1.1 lbs
Overall Dimensions	265×96×38 mm	10.4×3.8×1.5 in
Input voltage	100 – 240 VAC, 50 – 60 Hz	
Maximum current consumption	9 A	
Minimum power consumption (stand-by)	0.1 W	
Operational temperature range	-10°C/+40°C	-14°F/104°F

3.2 OTHER FEATURES

- Electronic overload protection (EOP);
- Drive up to 4 **LIFTO 25** at the same time;
- Auto-detection of the number of connected **LIFTO 25**.

4. CONTROL DEVICE OVERVIEW



- 25** Control device
- 26** UP button
- 27** DOWN button
- 28** Position 1 button
- 29** Position 2 button
- 30** Position 3 button
- 31** Store position button

4.1 TECHNICAL SPECIFICATIONS

Weight	0.1 kg	0.2 lbs
Overall dimensions	93×19×15 mm	3.7×0.7×0.6 in
Connector	RJ45	
Cable length	1.7 m	5.6 ft
Operational temperature range	-10°C/+40°C	-14°F/104°F

4.2 OTHER FEATURES

- 3 storable positions;
- Extendable wiring up to 50m [164 ft] (RJ45 coupler included);
- Optional Bluetooth remote control available (APTZ004).

5. OPTIONAL ACCESSORIES

Lightweight dolly (D833)



PTZ T-bar (APTZ001)

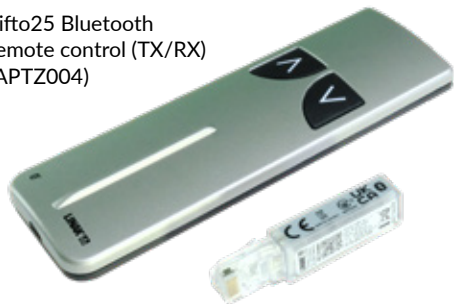


Case PP Tube (C941)



PTZ Universal plate (APTZ003)

Lifto25 Bluetooth
remote control (TX/RX)
(APTZ004)



D-Tap cable for V-Mount batteries (APTZ005)

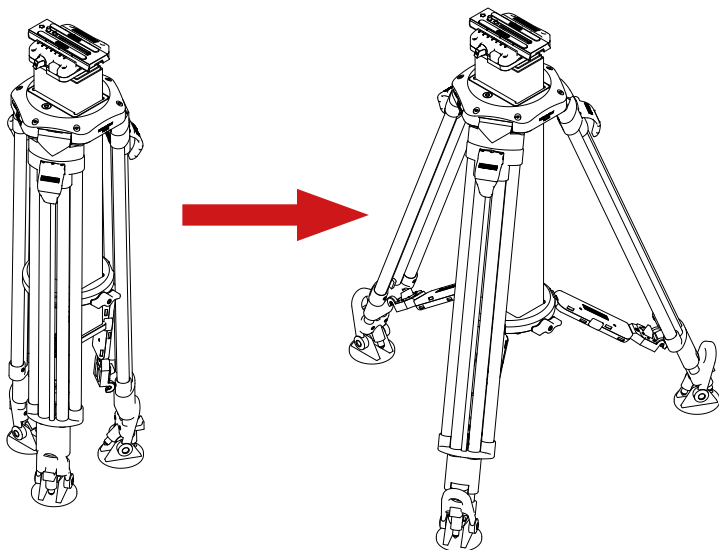
6. INSTALLATION AND SETTINGS

Prior to installation, please check the state of packaging for its integrity on arrival, and also make sure that none of the components show signs of impact. If any such damage occurs **CARTONI** should be informed immediately. If the product is to be forwarded elsewhere, it should be carefully packed and the greatest care should be taken not to damage any of the components.

16 6.1 SETTING THE LIFTO 25

Please set the **LIFTO 25** Tripod as follows.

Release the spreader knob (4) and completely spread the pedestal; then lock in place with the same knob (4).



Connect the motor cable to the power supply (19), using the first port available: if only one **LIFTO 25** is being connected to the power supply (19), choose the port “1” (22).

Connect the wired input device (25) to the power supply (19), via the RJ45 port labeled “A1” (24) or “A2” (23).

An extension cord, 2 m long, for the motor cable is provided in the kit, if needed. The input device cable can be extended as well, using the provided RJ45 coupler and a standard Ethernet cable (not included). Extensions exceeding 50 mt (164 Ft) are not advisable.

Finally, connect the power supply (19) to a AC plug via the AC port (18), using the provided cable.



! The power supply can handle up to four **LIFTO 25** at the same time. Please be advised that all the motorized elevation units (7) connected to the same power supply (19), will move simultaneously and not independently one from the each others.

In case you need to connect more than one **LIFTO 25** to the same power supply unit (19), please proceed following the increase numbering of the motorized elevation unit output ports.

To set the tripod height release the spreader knob (4) and then loose the three leg clamp lever (2). Lift the tripod pulling up the tripod base (6) till the desired height, then lock in place the three extendable legs (13) with the three leg clamp levers (2). Adjust the opening angle of the legs (13) and tighten the spreader knob (4). Finally, if needed, adjust the extension of the spreader acting on the adjusting botton (5).

Set the horizontal postion of the tripod base (6) trimming the length of each leg conveniently, loosing and then tightening the leg clamp lever (2). Check the bubble level embedded (12).

6.2 MOUNTING THE PTZ CAMERA

Mount the quick release camera plate (1) on the PTZ camera tightening the appropriate screw (1/4" and 3/8" screws provided). Please pay attention to properly align the arrow pointing toward the camera front.

If the PTZ camera does not have the mounting holes aligned with the optical axis, please use the accessory APTZ003 (not included).

Slide in the camera plate (1) into the plate support (9) up to centering the PTZ camera on the **LIFTO 25**, then tighten the knob (10) to avoid undesired camera movement.

Secure the PTZ camera connecting the camera safety leash, if any, to prevent accidental fall-off.

Finally, wrap all the cables (motor cable, PTZ power cord, PTZ control cable, etc.) using the provided self-winding sock.

Secure the wrapped up cables to the safety ring (8), using the provided strain-relief strap, to prevent cables and connectors accidental damage.

The **LIFTO 25** has been designed to support up to three PTZ cameras at the same time, using the optional accessory PTZ T-Bar (APTZ001, not included). For further information about the use of the PTZ T-Bar please refer to the section 6.4 "Optional accessories".



! Items whose center of gravity (CG) is too close to the opened **LIFTO 25** base triangle (PTZ T-Bar, Teleprompters, ecc.) could cause the **LIFTO 25** to tip over; use additional precaution to avoid accidents.

6.3 OPERATING THE LIFTO 25

At the first switch on, push and hold the DOWN button (27) to reach and set the lowest position.

During normal operation, adjust the height of the motorized elevation column (7) using the wired input device (25), acting on the buttons UP (26) or DOWN (27).

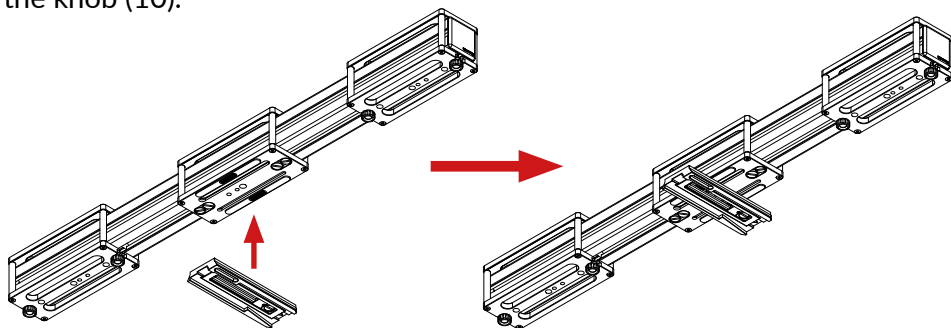
Three different positions can be stored. To store the current position press the “s” button (31) and then the desired memory button: “1” (28), “2” (29) or “3” (30). To recall a position press and hold the corresponding button: “1” (28), “2” (29) or “3” (30). Each time a new position is stored the previous one, if existing, is overwritten.

6.4 USE OF OPTIONAL ACCESSORIES

6.4.1 PTZ T-BAR (APTZ001)

The PTZ T-Bar has been designed to use up to three (Depending on size/ or weight) at the same time. This smart and convenient device, is made by a main frame member on which three camera interface can slide back and forth to adjust the camera position.

To install the PTZ T-Bar couple the quick release camera plate with the central sliding interface, then slide in the camera plate (1) into the plate support (9) up to centering the PTZ T-Bar on the **LIFTO 25**, then tighten the knob (10).





! Items whose center of gravity (CG) is too close to the opened **LIFTO 25** base triangle (PTZ T-Bar, Teleprompters, ecc.) could cause the **LIFTO 25** to tip over; use additional precaution to avoid accidents.

6.4.2 *LIGHTWEIGHT DOLLY (D833)*

Assembling

The **LIFTO 25** has been designed to be compatible with the **CARTONI** Lightweight Dolly (D833), to in order to conveniently move the **LIFTO 25** around the studio or set. To mount the **LIFTO 25** on the dolly proceed as follows.

Firstly, remove the three orientable feet (15) disengaging the rubber band (14) for each foot. Then, remove each foot (15) tipping it around its spherical seat until snapping out the foot itself.

Completely open the dolly and place it on an even surface, engaging the brake of each wheel so that the dolly cannot move during the **LIFTO 25** installation.

Release the spreader knob (4).

Place the spherical seat of one leg (13) on the corresponding sphere of the dolly and snap-in.

Extend as much as needed the spreader arm of the leg pushing the adjusting button (5) and extend the spreader arm of a second leg (13), also.

Couple the second leg (13) seat on the corresponding sphere of the dolly and snap-in it, too.

Subsequently, extend by the necessary amount the spreader arm of the third leg pushing the adjusting button (5), place the third leg (13) seat on the corresponding sphere of the dolly and snap in the leg.

Afterwards, secure all the three legs (13) using the rubber restrain bands of the dolly itself.

Set the desired tripod height acting on the clamping levers (2) and finally tighten the spreader knob (4).

Disassembling

To remove the **LIFTO 25** from the dolly proceed as follows.

First, engage the brake on each wheel and retract the motorized elevation column (7) to its lowest position.

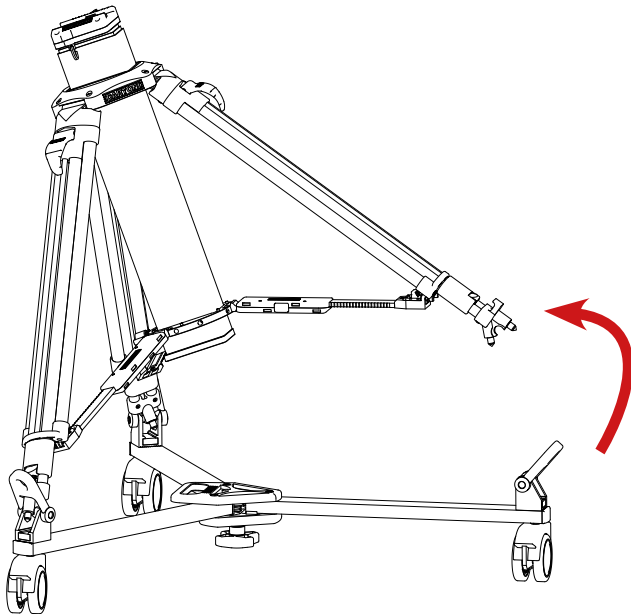
Remove any payload or accessory placed on the **LIFTO 25**.

Lower the tripod to its minimum height position, acting on the clamping lever (2) of each leg (13). Disengage the restraining rubber band (14), for all the three rubber feet (16).

Uncouple one leg (13) from the spherical joint on the dolly, the slightly tilt aside the **LIFTO 25**, as shown in the following figure: the other two sphere will automatically pop-out from the corresponding spherical seat.

Release the spreader knob (4) and completely fold the tripod, then tighten the knob (4) again.

Finally, fold the dolly.



6.4.3 D-TAP CABLE FOR V-MOUNT BATTERIES

The **LIFTO 25** can be operated using batteries as well. To this specific purpose, a dedicated accessory has been conceived in order to use two 14V batteries with the D-Tap cable for V-Mount batteries (APTZ0005).



! Never connect batteries and AC plug to the power supply unit at the same time.

Connect each battery to one D-Tap connector of the cable and then connect the 2-pins Molex connector to one of the to DC ports (16) of the power supply unit (19). It is strictly forbidden to connect batteries and AC plug to the power supply unit at the same time.

The power supply unit sports two DC ports and the hot swap between batteries is possible in order to not interrupt the operation. Nevertheless, connect two D-Tap cables at the same time only for the time strictly necessary.

6.4.4 BLUETOOTH REMOTE CONTROL

The operation of the motorized elevation unit (7) of the **LIFTO 25** can be controlled via an optional Bluetooth remote control.

Insert the receiver in one of the two control device input ports “A1” or “A2” (23 or 24, respectively) of the power supply unit (19).

Press both transmitter buttons simultaneously to pair the transmitter with the receiver.

The Bluetooth remote control is now ready and you can move the **LIFTO 25** using the two buttons analogously to what you can do the the UP (26) and DOWN (27) button of the wired input device (22). No storable positions are available in this case.

7. SAFETY PRECAUTIONS



! The **LIFTO 25** has been designed to respect ergonomic principles to allow operators to use it without any physical exertion. This includes working conditions with minimum strain, movements, frequency of routines to avoid any physical and psychological discomfort.

! The operators must take the utmost care to avoid any action that might endanger themselves, their machine or others.

! Items whose center of gravity (CG) is too close to the opened **LIFTO 25** base triangle (PTZ T-Bar, Teleprompters, ecc.) could cause the **LIFTO 25** to tip over; use additional precaution to avoid accidents.

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8. DISASSEMBLING AND STORAGE



! Before disassembling and folding the **LIFTO 25** ensure that the load has been removed.

To disassemble the **LIFTO 25** please proceed as follows.

Retract the motorized elevation unit (7) to its lowest position, pushing the DOWN button (27) on the provided control device (25).

Remove the PTZ camera loosening the knob (10), then push the quick release

safety button (11) and slip the camera plate (1) till completely disengage the camera plate from the motorized column.

Remove the quick release camera plate (1) from the PTZ camera loosing the 1/4" (or 3/8") screw. Insert again the camera plate on the **LIFTO 25**, paying attention to properly align the arrow, and tight the knob (10).

Disconnect the motor cable from the motorized elevation unit (7), and insert the connector inside the safety ring (8), in order to protect the connector itself during transportation and storage. Disconnect the motor cable, the input device (25) and the power supply cable from the power supply unit (19) and carefully put away all the wirings and the electronic devices in the provided cable bag.

If previously extended, retract the multi-level spreader (3) to its shrunk position, release the spreader knob (4) and fold the tripod to its folded position. Then, tight again the spreader knob (4).

Release the three leg clamping levers (2), lower the tripod pulling down the flat upper base (6), then lock in place the three extendable legs (13) with the three leg clamping levers (2).

9. SERVICE

The **LIFTO 25** has been designed and built in a way to reduce as much as possible any maintenance, and to ensure to be problem-free over time.

After any maintenance operation, the **LIFTO 25** must be tested to ensure that it is working properly.

9.1 ROUTINE MAINTENANCE

The **LIFTO 25** components should be carefully periodically inspected and any damaged part immediately replaced to prevent failures that might compromise the safety of the **LIFTO 25**.

9.2 EXTRA MAINTENANCE AND SPARE PARTS

Whatever extra maintenance requires to be carried out by **CARTONI**'s own technical servicing staff or an authorized service station appointed by **CARTONI**.

Information on authorized service station staff can be obtained by contacting **CARTONI** or www.cartoni.com.

For fast, effective problem solving **CARTONI** should be informed of the Tripod model and the nature of the defect or its visible symptoms when the problem arises.



! All maintenance on the **LIFTO 25** must be carried out by competent and instructed personnel on the operative and safety methods of the Tripod; all warranty conditions are invalidated should any repair operation be attempted by anyone not authorized by **CARTONI**.

All spare parts should be ordered from **CARTONI** which will either supply them directly or indicate where they may be obtained.

Remember that repairs should only be carried by persons employed or authorized by **CARTONI**. All warranty conditions are invalidated should any parts be different from those originally mounted on the **LIFTO 25**.

9.3 DECOMMISSIONING

In case the **LIFTO 25** becomes beyond repair it should be placed out of service or at least clearly labeled as “out of order”.



Since the **LIFTO 25** is largely made of steel and aluminum, most of its materials can be recycled.

Once a **LIFTO 25** is decommissioned, it is advisable to separate its various materials for differentiated utilization or disposal, according to the national regulations.

Since none of the materials used on the **LIFTO 25** are toxic or may cause a risk to the health of its operators, they can be handled without the need for any special precautions.



! The dismantling of the **LIFTO 25** at the end of its life must be carried out by competent and trained personnel.

EC DECLARATION OF CONFORMITY

(Translation of the original declaration)

The Manufacturer

CARTONI S.P.A.

declares under its own responsibility that the:

Motorized Elevation Column



Within the limits of the supply, as described in the User's Manual & Maintenance, complies with the following directives:

- Directive 2006/42/EC of the EUROPEAN PARLIAMENT AND OF THE COUNCIL of 17 May 2006 on machinery and amending Directive 95/16/EC (recast).
- Directive 2014/30/EU on the harmonisation of the laws of the Member States relating to electromagnetic compatibility (EMC).

Moreover, the Lifo 25 complies with the following main harmonised standards:

- EN ISO 12100: Safety of machinery. General principles for design. Risk assessment and risk reduction.
- EN 60204-1: Safety of machinery. Electrical equipment of machines. General requirements.
- UNI EN ISO: 13849-1 "Safety-related parts of control systems – General principles for design".
- UNI EN ISO: 13850 "Safety of machinery. Emergency stop devices, functional requirements: principles for design".

Name and address of person authorized to compile the relevant Lifo 25 technical file: Elisabetta Cartoni, President & Ceo – Cartoni S.p.A. Via Giuseppe Mirri, 13 - 00159 Rome, Italy

Name of legal representative authorised to sign this declaration:

Elisabetta Cartoni
President & Ceo

A handwritten signature in blue ink, appearing to be "Elisabetta Cartoni", is written over the printed name and title.

Rome, 16 May 2023



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