

CARTONE

PROFESSIONAL CAMERA SUPPORT

LIFTO
25/S ✓

LIFT^{PRO}
25/S ✓

LIFTO
TWIN ✓

LIFT^{PRO}
TWIN ✓



USER'S MANUAL
& Maintenance

Thank you for choosing one of our **LIFTO 25 series** Motorized elevation column designed by **CARTONI**. The **LIFTO 25/S - LIFTO 25/S PRO - LIFTO TWIN** or **LIFTO TWIN PRO** are built using 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 version 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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trust
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CARTONI S.P.A.

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

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for the following scope:

DESIGN, MANUFACTURE AND POST-SALE ASSISTANCE OF PROFESSIONAL BROADCAST AND FILM EQUIPMENT. MARKETING OF PROFESSIONAL BROADCAST AND FILM ACCESSORIES AND PRODUCTS AS LOCAL AGENCY/REPRESENTATIVE

4

which fulfills the requirements of the following standard:

ISO 9001:2015

Issued on: **2024-05-31**

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All details about any legal entities, operative units and related activities included in this certificate are contained in CISQ/RINA original certificate no: **19714/09/S**

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Alex Stoichitoiu
President of IQNET


Mario Romersi
President of CISQ



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Manual Version: 1.0

1. INTRODUCTION

The correct and safe use of any of the **LIFTO 25** versions 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 any of the **LIFTO 25** versions.

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** versions 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** versions are 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 mis-handling. 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** versions 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

Authorized Personnel: Extraordinary maintenance and repairs to any of 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 LIFTO VERSIONS - IN THE BOX

The **LIFTO 25** can be packaged in different configurations according the application and the complexity of the mode of use. From the basic motorized elevation unit manually operated, the **LIFTO 25** units can be integrated in Studios or other locations and may be operated from a distance through the Ethernet connection.

The **LIFTO 25** is packaged in the following versions:

LIFTO 25/S - CODE KPTZ0201 - EAN CODE 4270625673798

- One **LIFTO 25** motorized column;
- SDS 2 stage **LIFTO 25** tripod;
- **LIFTO 25** multi-level smart lock spreader;
- Rubber feet (AT877);
- Safe release camera plate (APTZ010);
- Power supply dual voltage;
- Control device;
- Motor cable 3m (9.8 ft)
- RJ 45 coupler;
- EU power plug/ USA power plug
- Cable bag;
- Safety ring (wiring strain relief + PTZ safety leash) (ATO0040).



LIFTO 25/S PRO - CODE KPTZ0303 - EAN CODE 4260725674191

- One **LIFTO 25** motorized column;
- SDS 2 stage **LIFTO 25** tripod;
- **LIFTO 25** multi-level smart lock spreader;
- Rubber feet (AT877);
- Safe release camera plate (APTZ010);
- Power supply dual voltage, 24Vdc, RX compatible;
- TX Box powered by Polecam;
- Motor cable 3.0 m [9.8 ft] XLR connector;
- EU power plug/USA power plug;
- Safety ring (wiring strain relief + PTZ safety leash) (ato0040);
- Cable bag.

LIFTO TWIN - CODE KPTZ0302 - EAN CODE 4260725674184

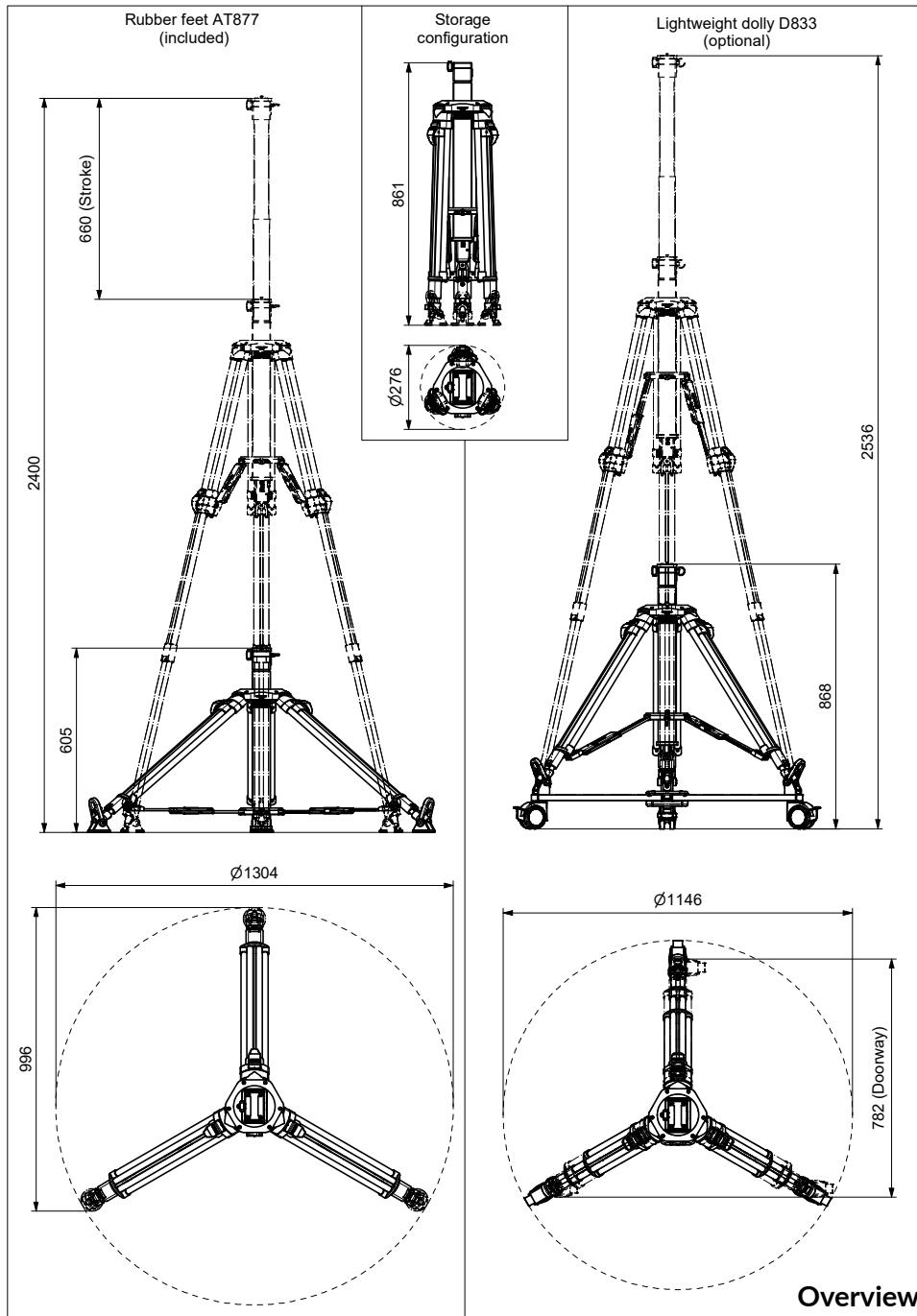
- Two **LIFTO 25** motorized columns;
- SDS 2 stage **LIFTO 25** tripod;
- **LIFTO 25** multi-level smart lock spreader;
- Rubber feet (AT877);
- Safe release camera plate (APTZ010);
- Power supply 24 Vdc, dual voltage;
- Cabled operator Control device;
- Two Motor cables 3.0 m [9.8 ft] XLR connector;
- RJ 45 coupler;
- EU power plug/USA power plug;
- Safety ring (wiring strain relief + PTZ safety leash) (ato0040);
- Cable bag.

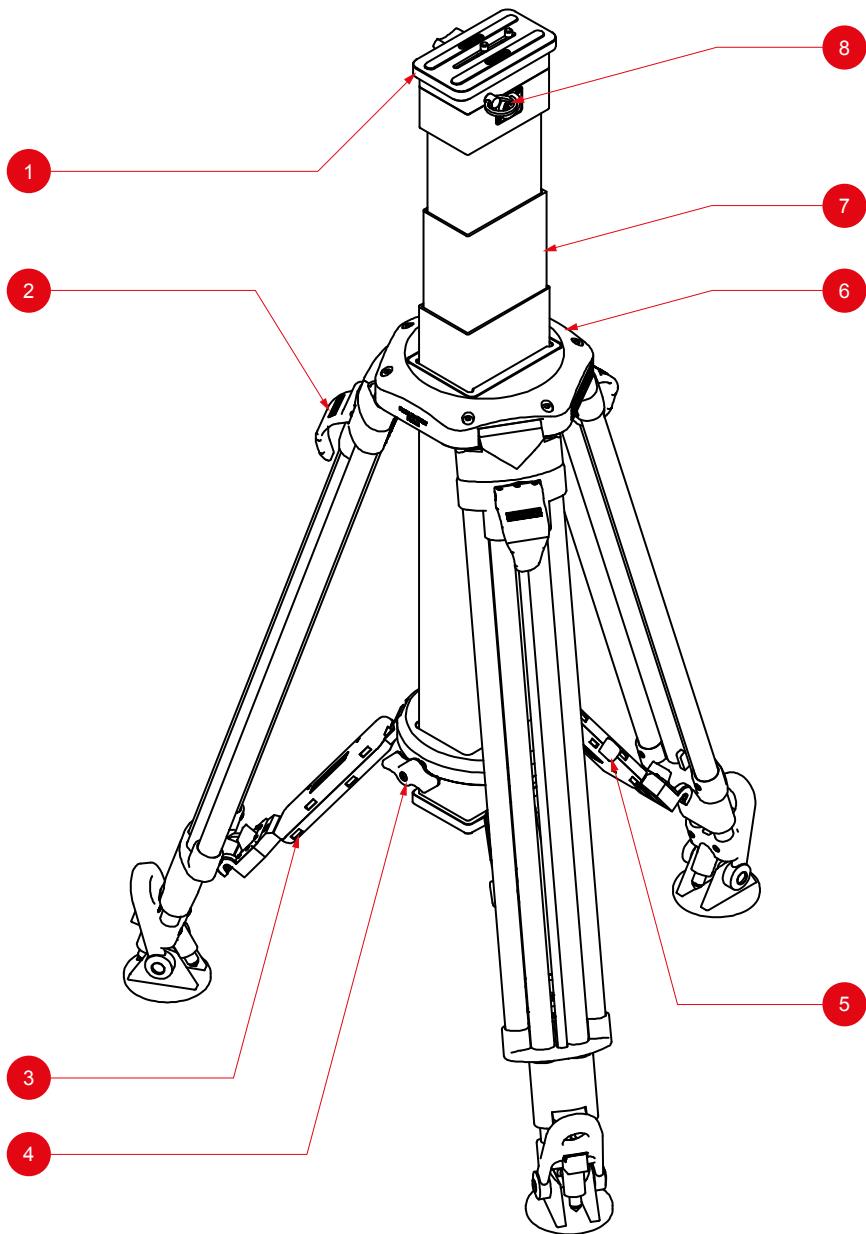
LIFTO TWIN PRO - CODE KPTZ0202 - EAN CODE 4260725674085

- Two **LIFTO 25** motorized columns;
- SDS 2 stage **LIFTO 25** tripod;
- **LIFTO 25** multi-level smart lock spreader;
- Rubber feet (AT877);
- Safe release camera plate (APTZ010);
- Power supply dual voltage, 24Vdc, RX compatible
- TX Box powered by Polecam
- Two Motor cables 3.0 m [9.8 ft] XLR connector;
- EU power plug/USA power plug
- Safety ring (wiring strain relief + PTZ safety leash) (ato0040),
- Cable bag.

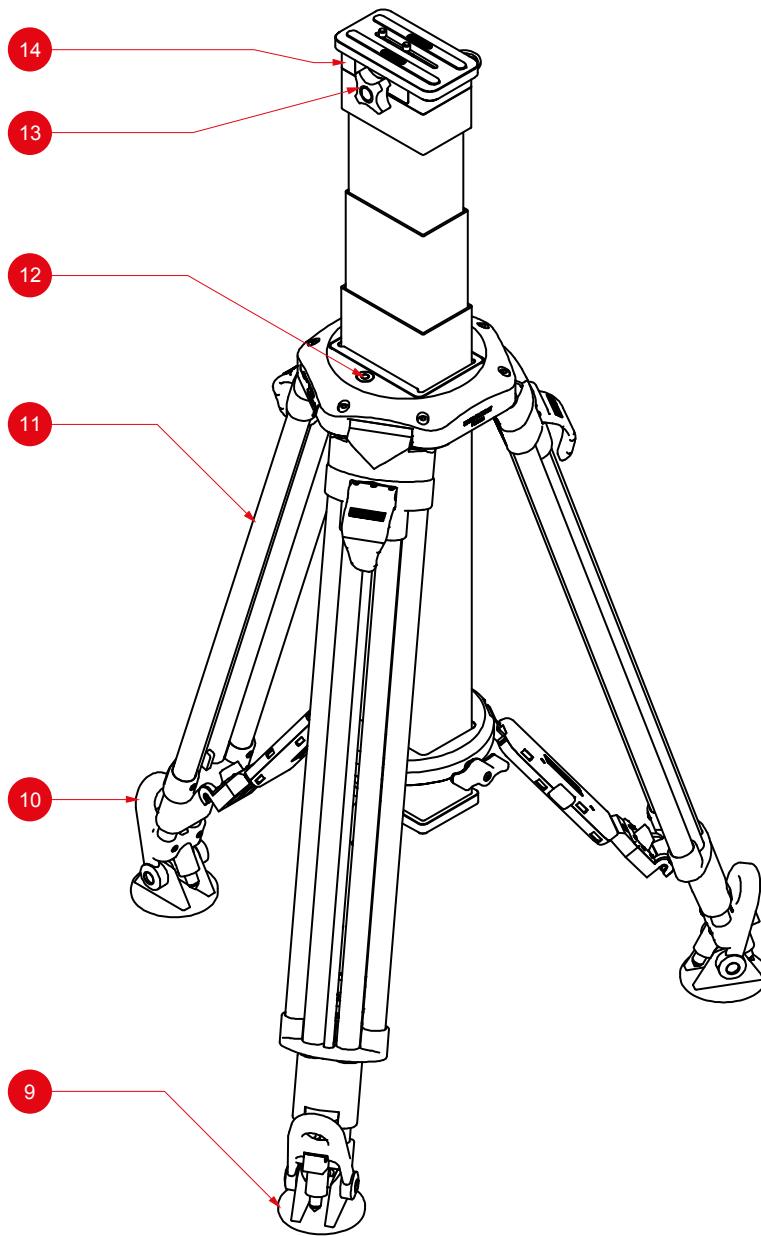


2. LIFTO 25 MOTORIZED ELEVATION COLUMN





- 1** Safe release camera plate
- 2** Extendable leg clamping plate
- 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 Tripod orientable foot
10 Foot rubber restraint
11 Extendable leg

12 Bubble level
13 Safe release tightening knob
14 Plate support

2.1 SAFETY WARNINGS

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

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

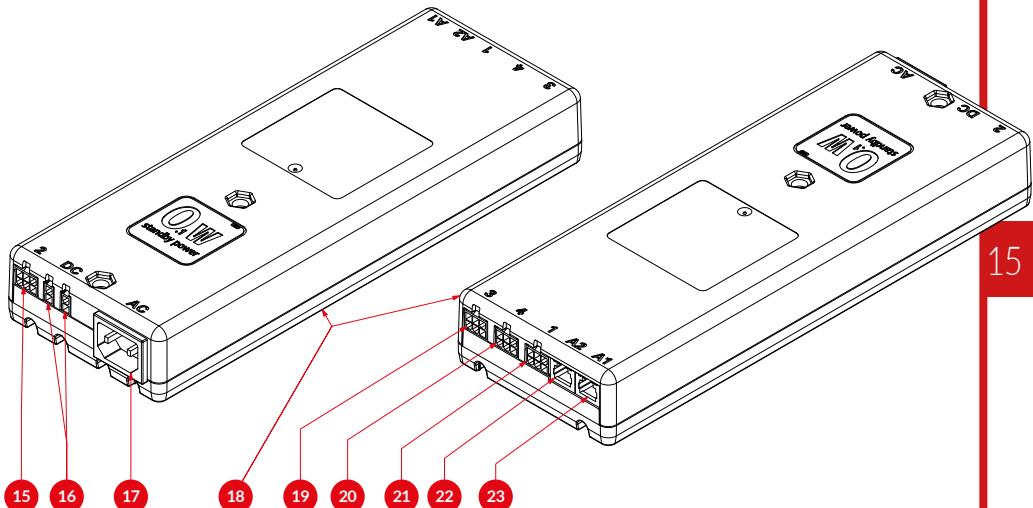
2.2 TECHNICAL SPECIFICATIONS

Weight	11.8 kg	26 lbs
Maximum payload	25 kg	55.1 lbs
Speed	38 mm/s	
Column interface fixing method	Safe release camera plate	
Stroke	660 mm	26 in
Minimum height	605 mm	23.8 in
Maximum height (feet)	2400 mm	94.5 in
Maximum height (dolly)	2536 mm	99.8 in
Overall dimensions	Ø276 x 861 mm	Ø10.9 x 33.9 in
Footprint diameter (minimum height)	1304 mm	51.3 in
Input voltage	24 V	
Maximum current consumption	9 A	
Duty cycle	10 %	
Operational temperature	-10°C/+40°C	-14°F/104°F

2.3 OTHER FEATURES

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

3. POWER SUPPLY OVERVIEW



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

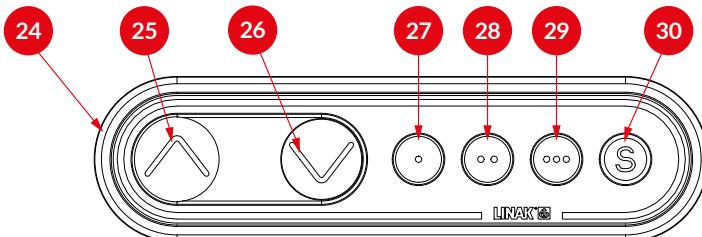
3.1 TECHNICAL SPECIFICATIONS

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** versions at the same time;
- Auto-detection of the number of connected **LIFTO 25** versions.

4. CONTROL DEVICE OVERVIEW



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

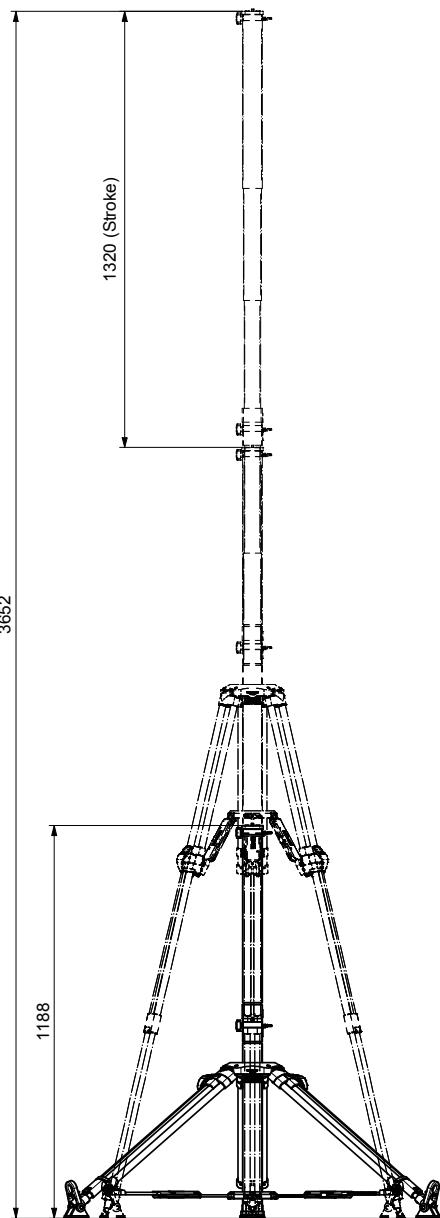
- 3 storable positions;
- Extendable wiring up to 50m [164 ft] (RJ45 coupler included);
- Optional Bluetooth remote control available (APTZ004).

5. OPTIONAL TWIN ELEVATION COLUMN

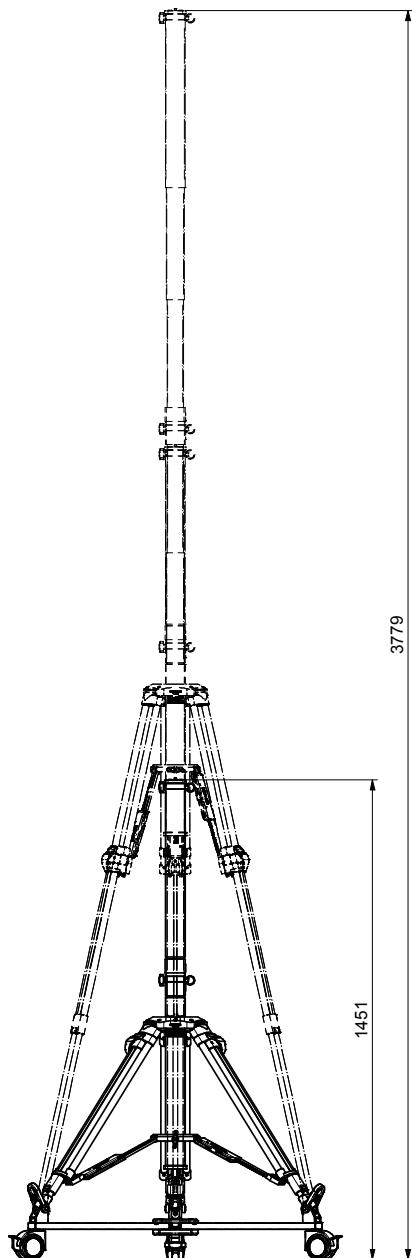
An optional **TWIN ELEVATION COLUMN** can be connected on top of the base **LIFTO 25/S** or **LIFTO 25/S PRO** to extend its reach up to about 3,8 m (150 in.), in the below configuration we also use the **LIGHTWEIGHT DOLLY**. The **TWIN ELEVATION COLUMN**, doubles the vertical stroke and gives the additional advantage to double the elevation speed.

The **TWIN ELEVATION** is easy to install, as fits naturally between the **LIFTO 25** or **LIFTO 25/S** and the camera.

Rubber feet AT877
(included)



Lightweight dolly D833
(optional)



6. OPTIONAL ACCESSORIES RX BOX

The **RX Box** is an alternative controller connected to a dedicated Power Supply, to control the column in a more advanced mode, the connections will be supported by the Ethernet grid of the location .

The **RX Box** allows the user to operate the **LIFTO 25/S** or **LIFTO 25/S PRO** and the **TWIN ELEVATION COLUMN** with the most diffused PTZ camera console controllers (Sony, Panasonic, Skaarhoj, etc.).

A module for Companion application is also available and allows to control the column with other devices like the stream deck.

With the **RX Box**, up to 30 positions can be stored and recalled.



7. OPTIONAL ACCESSORIES

TX Box + PEDALS

The **TX Box** is used in conjunction with the **RX Box**.

It enables to control the **LIFTO 25** elevation with other devices such as foot pedals.

The **TX Box** has a display to directly manage all the settings of the connected **TX Box**.

The pedals can be used to move the **LIFTO 25** Up and Down or to recall preset positions. With those **PEDALS** you can adjust the speed live. The **PEDALS** are equipped with a potentiometer to regulate the maximum speed in each direction.



8. OPTIONAL CONTROL SOFTWARE DONGLE & CONTROL MODULE

A customized control system for **LIFTO 25/S** or **LIFTO 25 TWIN** communicating via Ethernet. It acts through the Ethernet wiring existing in the Studio. The **control software Dongle** - includes a specific user manual - and easily loads to any computer with windows OS, connecting **LIFTO 25** or **LIFTO 25/S** to the PTZ automation system with no distance limitation.

The control software Dongle is compatible with most of the high-end PTZ from Panasonic, Sony, etc.

Operations can be performed by the PTZ controller (Panasonic, Skaarhoj, etc.) itself or conveyed to a footswitch or any game pad via USB to remotely control up to 5 PTZ and 5 **LIFTO 25/S** or **LIFTO 25 TWIN** simultaneously.



Control Software Dongle (APTZ006)



Control Module (APTZ007)

The control software is compatible with the dedicated **LIFTO 25/S** or **LIFTO 25/S TWIN** Control Module APTZ007 that permits to operate different speeds in elevation, up to 5 **LIFTO 25/S** or **LIFTO 25/S TWIN** units.

The Control Module is also capable of memorizing positions, starts, stops & repeat movements on demand or in loop.

It is compatible with most of the high-end PTZ from Panasonic and Sony, and interfaces with the main PTZ controller (Panasonic, Skaarhoj, etc.).

9. OTHER OPTIONAL ACCESSORIES

Lightweight dolly (D833)



PTZ T-bar (APTZ001)

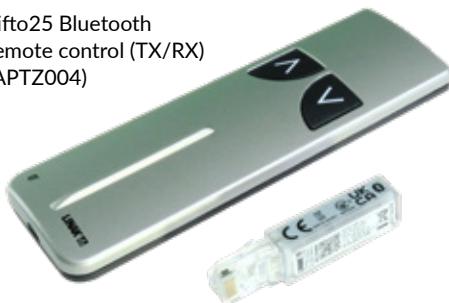


PTZ Universal plate (APTZ003)



Case PP Tube (C941)

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



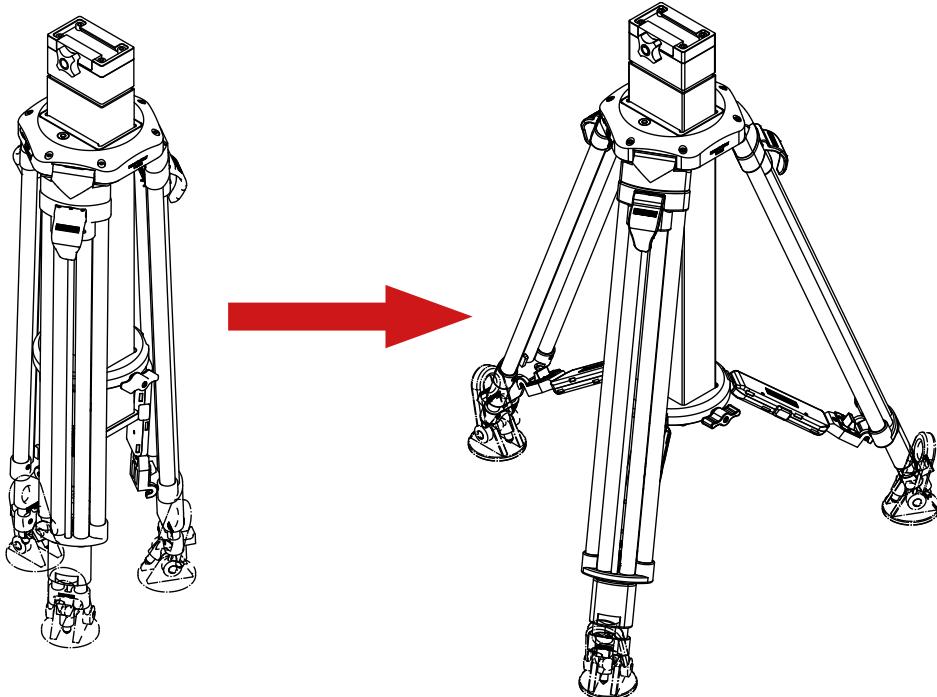
D-Tap cable for V-Mount batteries (APTZ005)

10. 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.

10.1 SETTING THE LIFTO 25 VERSIONS

To set-up all versions of the **LIFTO 25** Tripod please proceed 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 (18), using the first port available: if only one **LIFTO 25** is being connected to the power supply (18), choose the port “1” (21). If you have the **TWIN ELEVATION COLUMN** follow the instructions in Section 10.4.3.

Connect the wired input device (24) to the power supply (18), via the RJ45 port labeled “A1” (23) or “A2” (22).

The input device cable can be extended 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 (18) to a AC plug via the AC port (17), using the provided cable.

In case you need to connect the Twin Elevation column to the power supply unit (18), please connect main Elevation column to port “A1” and the twin additional Elevation column to port “A2”.



! Never install more than **ONE (1) TWIN** Elevation column on any **LIFTO 25** version for obvious capacity & stability reasons.

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 (11) with the three leg clamp levers (2). Adjust the opening angle of the legs (11) and tighten the spreader knob (4). Finally, if needed, adjust the extension of the spreader acting on the adjusting button (5).

Set the horizontal position 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 (12).

10.2 MOUNTING THE PTZ CAMERA

Mount the safe release camera plate (1) on the PTZ camera tightening the screws (1/4" screws provided).

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

Fix the safe camera plate (1) into the plate support (14), then tighten the knob (13) to avoid undesired camera movement.

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

Secure the wrapped up cables to the safety ring (8), to prevent cables and connectors accidental damage.

All **LIFTO 25** versions have 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 10.4.1 "Optional accessories".



! Items such as PTZ T-Bars, teleprompters, etc. with a center of gravity (CG) positioned too close to the base triangle of the opened **LIFTO 25** version may cause any **LIFTO 25** to tip over. They should be positioned so that their Center of Gravity (CG) is as close as possible to the geometric center of the base triangle. Use additional caution to prevent accidents.

10.3 OPERATING THE LIFTO 25

At the first switch on, push and hold the DOWN button (26) to reach and set the lowest position.

During normal operation, adjust the height of the motorized elevation column (7) using the wired input device (24), acting on the buttons UP (25) or DOWN (26).

Three different positions can be stored. To store the current position, press the "s" button (30) and then the desired memory button: "1" (27), "2" (28) or "3" (29). To recall a position press and hold the corresponding button: "1" (27), "2" (28) or "3" (29). Each time a new position is stored the previous one, if existing, is overwritten.

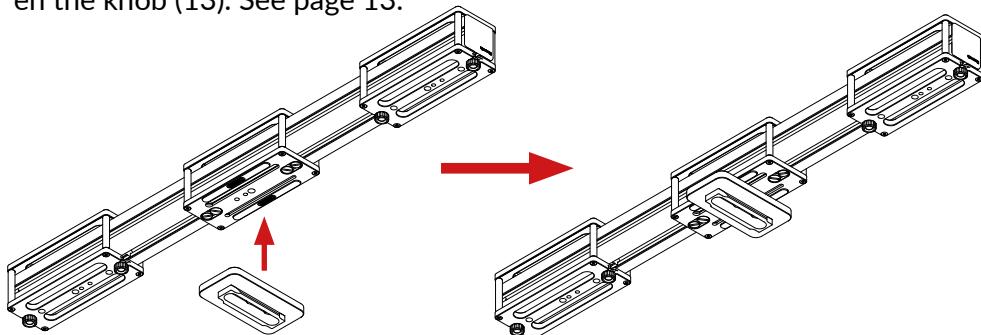
10.4 USE OF OPTIONAL ACCESSORIES

10.4.1 PTZ T-BAR (APTZ001)

26

The PTZ T-Bar has been designed to use up to three cameras (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 safe release camera plate with the central interface, then fix the safe release camera plate (1) into the plate support (14) up to resting the PTZ T-Bar on the **LIFTO 25 versions**, then tighten the knob (13). See page 13.





- ! Items such as PTZ T-Bars, teleprompters, etc. with a center of gravity (CG) positioned too close to the base triangle of the opened **LIFTO 25** version may cause any **LIFTO 25** to tip over. They should be positioned so that their **Center of Gravity (CG)** is as close as possible to the geometric center of the base triangle. Use additional caution to prevent accidents.

10.4.2 LIGHTWEIGHT DOLLY (D833)

Assembling

The **LIFTO 25** has been designed to be compatible with the **CARTONI Lightweight Dolly (D833)**, 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 (9) disengaging the rubber band (10) for each foot. Then, remove each foot (9) 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 (11) 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 (11), also.

Couple the second leg (11) 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 (11) seat on the corresponding sphere of the dolly and snap in the leg.

Afterwards, secure all the three legs (11) 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 versions** from the dolly proceed as follows.

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

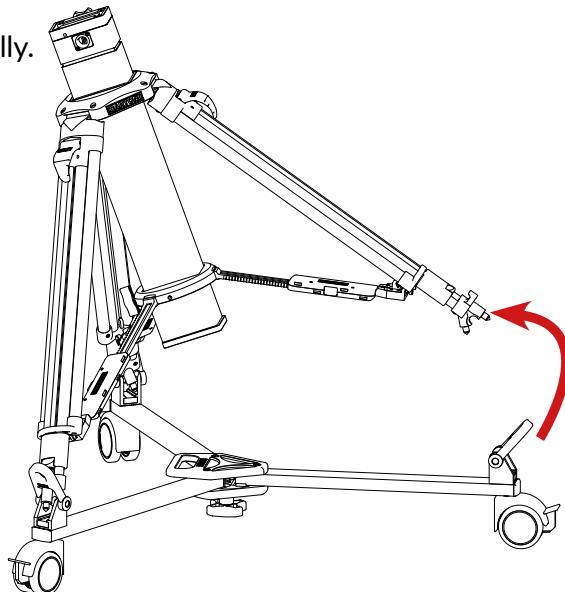
Remove any payload or accessory placed on the **LIFTO 25 versions**.

Lower the tripod to its minimum height position, acting on the clamping lever (2) of each leg (11). Disengage the restraining rubber band from all the three dolly arms.

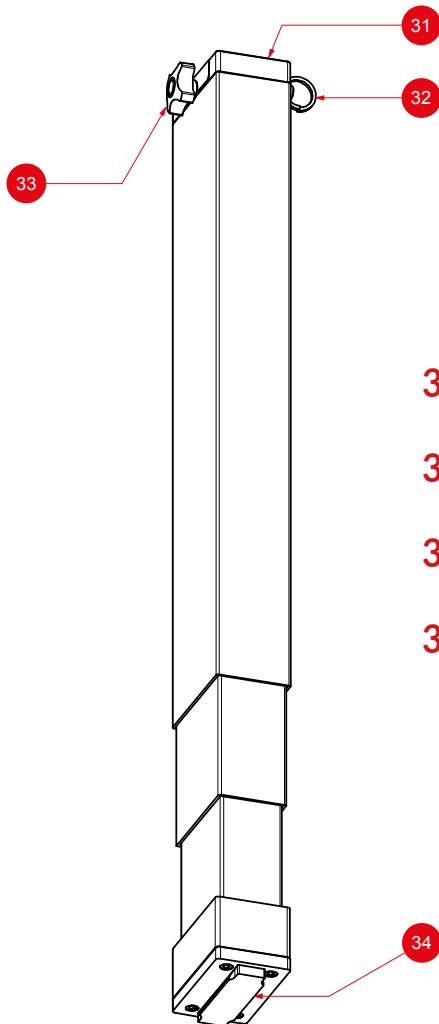
Uncouple one leg (11) from the spherical joint on the dolly, then slightly tilt aside the **LIFTO 25 versions**, as shown in the following figure: the other two sphere will automatically pop-out from the corresponding spherical seat.

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

Finally, fold the dolly.



10.4.3 TWIN EXTENSION COLUMN (APTZ008 OR APTZ009)



31 Plate support

32 PTZ safety ring

33 Safe release tightening knob

34 Safe release plate

To install the **TWIN EXTENSION** Elevation Column, untight the safe release tightening knob (13), remove the safe release camera plate (1) from the **LIFTO 25**, fix the **TWIN EXTENSION** Elevation Column by its safe release plate (34), then tight the safe release tightening knob (13). Connect the supplied cable to the motor port 2 (15) on the power supply (18). Follow the instructions in section 10.2 to mount the camera on the **TWIN EXTENSION** Elevation Column plate support (31).

10.4.4 RX Box (KPTZ0206)

The use of the **RX Box** excludes the standard power supply (18).

Connect the **LIFTO 25/S** motor cable to the **RX Box** on Leg 1 (45). If you have the **TWIN EXTENSION**, connect the **TWIN EXTENSION** motor cable to the **RX Box** on Leg 2 (46). Connect the ethernet cable coming from the network switch on the ethernet port (43).

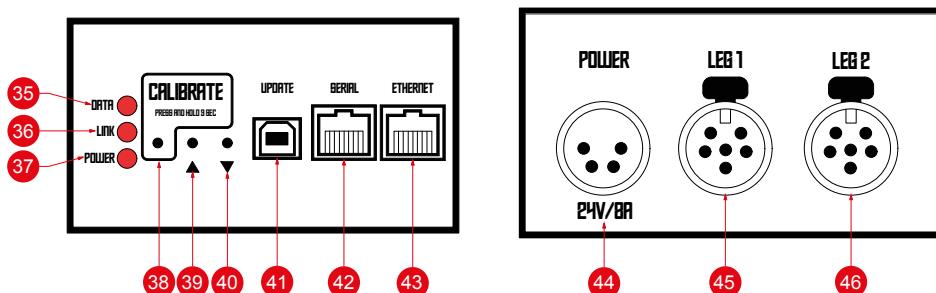
Finally, connect the power supply on the power XLR connector (44).

The default IP address for the **RX Box** is 192.168.1.199. You can use "Easy IP Setup" software from Panasonic to change the IP address on the box.

The **RX Box** is compatible with any VISCA enabled control panel, such as the Panasonic RP-150, Marshall VS-PTC-IP or SONY RM-IP500, Skaarhoj, etc.

On the Panasonic RP-150, you can add the **RX Box** in a dedicated channel or to a camera channel with extension control mode. There is a module for the Companion application too, to control the column with other devices like the stream deck.

30



35 Data: red LED indicating transmissions between **TX Box** and **RX Box** (Ethernet only).

36 Link: red LED confirming connection between **TX Box** and **RX Box**.

37 Power: red LED indicating the power is supplied to the system.
If blinking, the system needs calibrating.

38 Calibrate: pressing the button for 5 seconds initializes the system calibration.

39 Up: push button to elevate the column.

40 Down: push button to lower the column.

41 Update: USB Type B for future updates to the system.

42 Serial: RJ45 Cat 5 Port used when operating the system in Serial mode.

43 Ethernet: RJ45 Cat 5 Port used when operating the system in Network mode.

44 Power: 4 Pin XLR power input used with the supplied 24V 8A PSU.

45 Leg 1: 6 pin locking XLR for connecting the **TX Box** to **LIFTO 25/S**.

46 Leg 2: 6 pin locking XLR for connecting the **TX Box** to the **TWIN EXTENSION**.

This only functions when leg 1 is also connected.

10.4.5 TX Box (KPTZ0205)

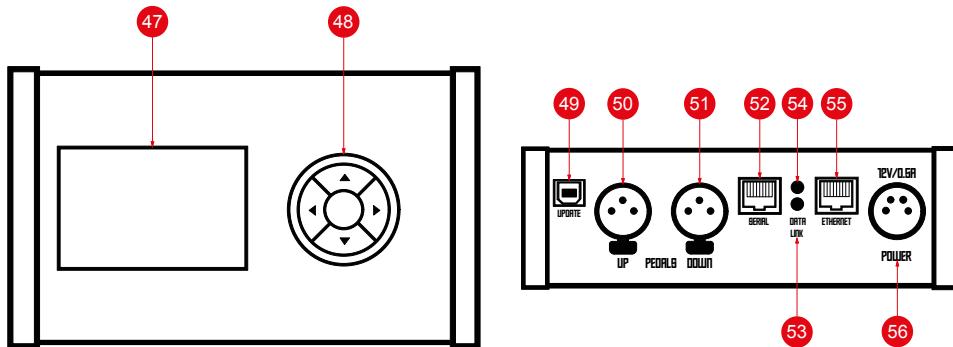
The **TX Box** box allows direct control of the **RX Box** without an external control panel.

Connect the Pedal UP and DOWN connectors on the UP and DOWN connectors respectively (50, 51) on the **TX Box**. Connect the ethernet cable coming from the network switch on the ethernet port (55).

Finally, connect the power supply on the power XLR connector (56).

On the **TX Box** menu you can choose the data communication type (Serial or Ethernet).

The default IP address of the **TX Box** is 192.168.1.200. In the network settings menu you can change the **TX Box** IP and the target output IP to match the **RX Box** IP.



47 Display screen.

48 Navigation keypad.

49 Update: USB Type B for future updates to the system.

50 Pedal Up: 3 pin locking XLR enables the LIFTO to be raised using the proportional variable speed pedals.

51 Pedal Down: 3 pin locking XLR enables the LIFTO to be lowered using the proportional variable speed pedals.

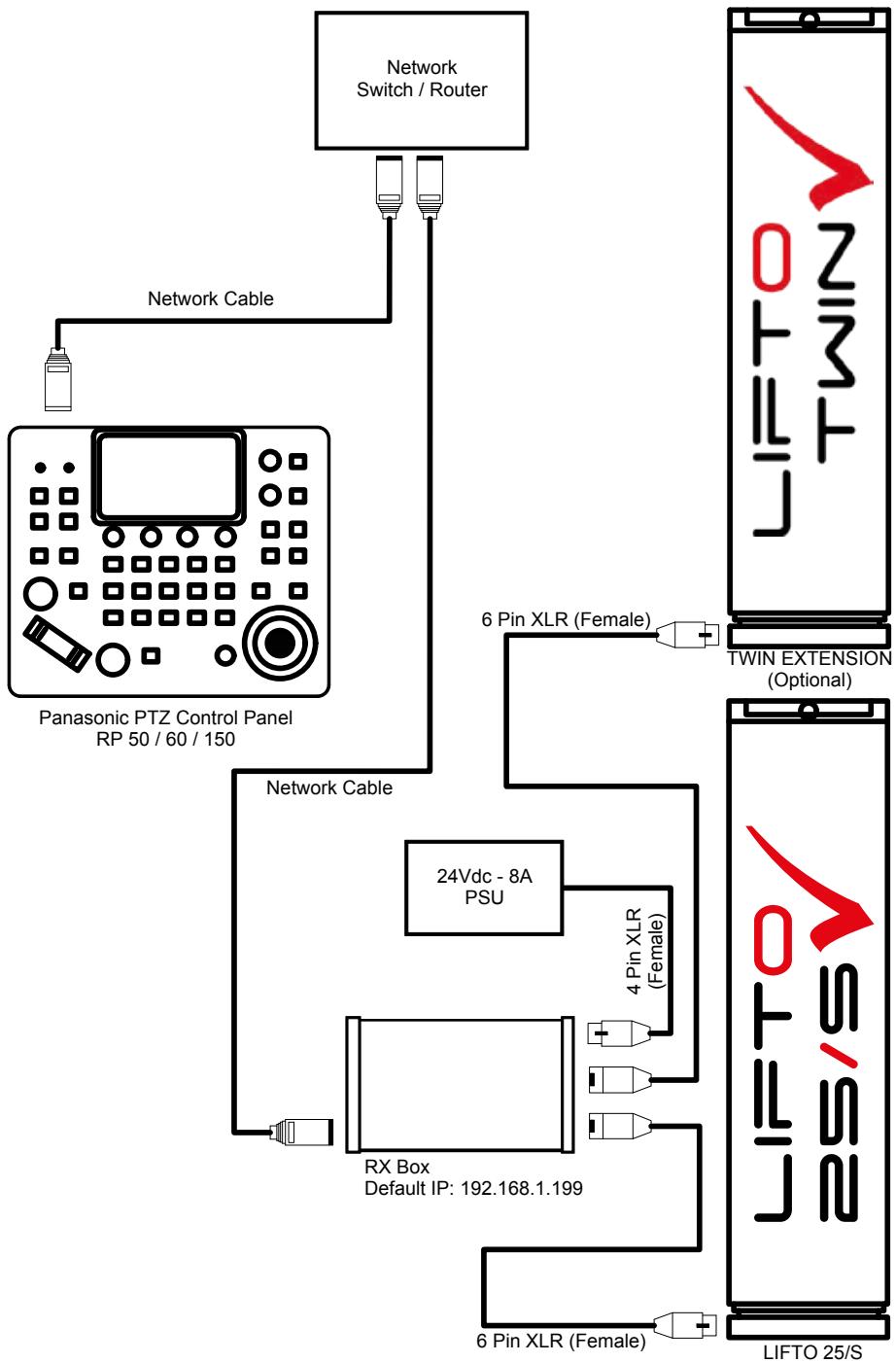
52 Serial: RJ45 Cat 5 Port used when operating the system in Serial mode.

53 Link: green LED confirming connection between **TX Box** and **RX Box**.

54 Data: green LED indicating transmissions between **TX Box** and **RX Box** (Ethernet only).

55 Ethernet: RJ45 Cat 5 Port used when operating the system in Network mode.

56 Power: 4 Pin XLR power input used with the supplied 24V 8A PSU.



10.4.6 D-TAP CABLE FOR V-MOUNT BATTERIES (APTZ005)

The **LIFTO 25** versions 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).



! Do not connect both the batteries and the AC plug to the power supply unit simultaneously.

Connect each battery to one D-Tap connector of the cable and then connect the 2-pins Molex connector to one of the two DC ports (16) of the power supply unit (18). 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.

10.4.7 BLUETOOTH REMOTE CONTROL (APTZ004)

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 22 respectively) of the power supply unit (18).

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 UP and DOWN buttons of the wired Bluetooth remote controller.

In this case no storable positions are available.

11. SAFETY PRECAUTIONS



- ! The **LIFTO 25** versions are designed to be easy for operators to use without physical strain. It reduces the need for repetitive movements and minimizes discomfort, keeping in mind both physical and mental comfort. Any items to be installed on any **LIFTO 25** should be positioned so that the Camera's **Center of Gravity (CG)** is as close as possible to the geometric center of the base triangle.
- ! Setups with a **CG** positioned too close to or beyond the triangle's perimeter could lead to the **LIFTO Elevation column** tipping over, potentially resulting in accidents.

12. DISASSEMBLING AND STORAGE



- ! Before disassembling or folding any version of the **LIFTO 25**, make sure to remove any attached load such as PTZ cameras, teleprompters, etc.

To disassemble the **LIFTO 25** versions please proceed as follows. Retract the motorized elevation unit (7) to its lowest position, pushing the DOWN button (26) on the provided control device (24).

Remove the PTZ camera loosing the knob (13) till completely disengage the camera plate (1) from the motorized column (7).

Remove the safe release camera plate (1) from the PTZ camera loosing the 1/4" screws. Insert again the camera plate on the **LIFTO 25 versions**, and tight the knob (13).

Disconnect the motor cable from the motorized elevation unit (7). Disconnect the motor cable, the input device (24) and the power supply cable from the power supply unit (18) 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 shrinked 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 (11) with the three leg clamping levers (2).

13. SERVICE

The **LIFTO 25 versions** 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 versions** must be tested to ensure that it is working properly.

13.1 ROUTINE MAINTENANCE

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

13.2 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 versions** 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 versions**.

13.3 DECOMMISSIONING

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



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

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

Since none of the materials used on the **LIFTO 25 versions** 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 versions** 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 Lifto 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 Lifto 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

Rome, 16 May 2023

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LIFT ^{PRO}
TWIN ✓

MAX HEIGHT
3.8 Meters (150 in.)

MOTORIZED ELEVATION COLUMNS

*Specifically designed
for PTZ & REMOTE Cameras*

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LIFT ^{PRO}
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