



INSTRUCTION MANUAL

ADVICE on INSTALLATION



0 – INTRODUCTION

Video Lift is an electro-mechanical device which, once installed in the ceiling, allows vertical movement (ceiling – floor – ceiling) for loads of up to 19 Kg and with maximum runs of 1 metre for the VL-100E model, or 2 metres for the VL-200E model.

This manual has been created to help you install the **Video Lift**. Please read all the instructions indicated carefully and scrupulously follow all the recommendations.

1 – RECOMMENDATIONS

Before installation, please read this manual carefully.

The device must be assembled by specialist installers or qualified personnel and/or personnel with experience in fastening equipment with transfer movements suspended from ceilings.

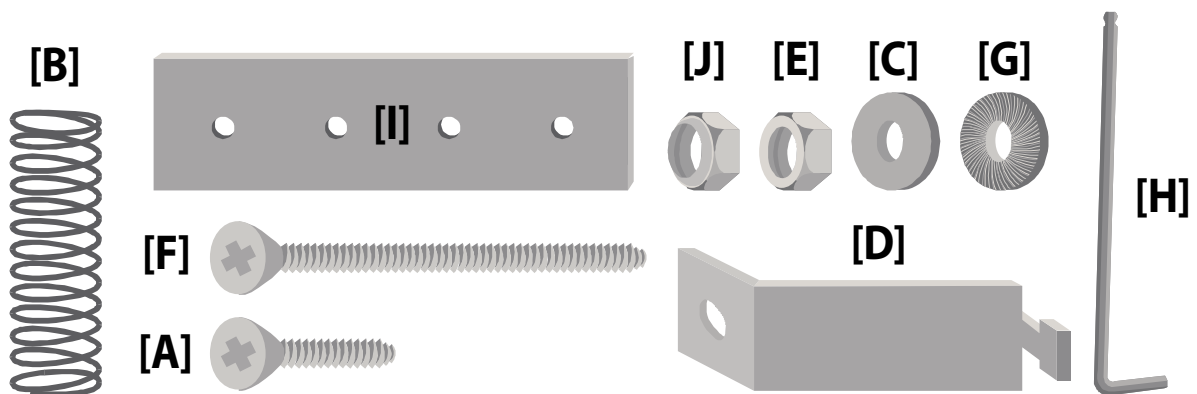
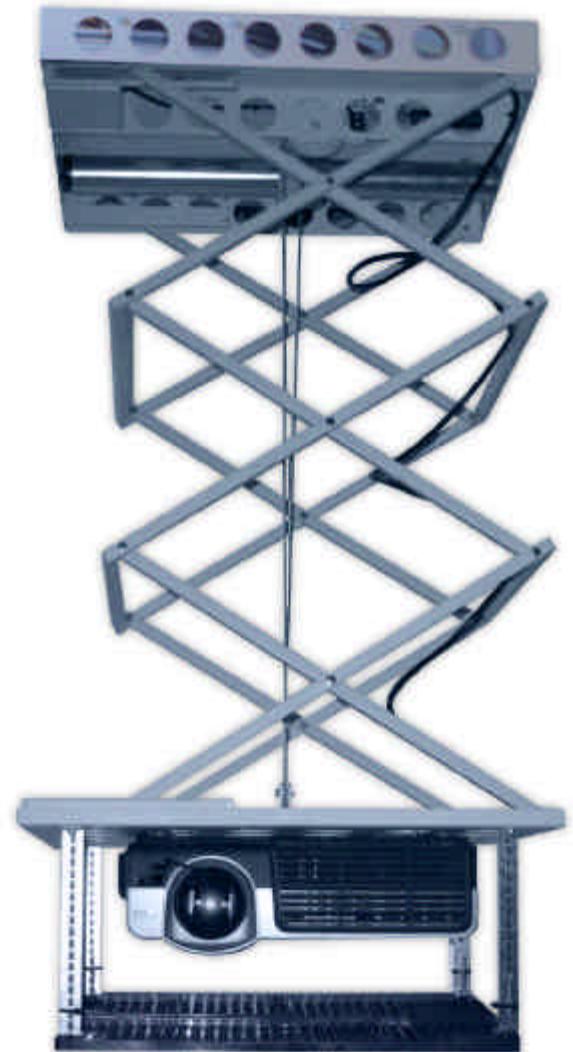
Video Lift is very easy to install, as the assembly system has been designed by a team of technicians who know the difficulties presented by different ceilings.

2 – ACCESSORIES INCLUDED

The **Video Lift** equipment includes the following accessories:

BAG 1

- M4 x 50 mm screws. [A] x 4
- 8.8 x 0.7 mm springs. [B] x 4
- M4 washers [C] x 8
- Bayonet supports [D] x 4
- M4 nuts [E] x 4
- M5 x10 screws [F] x 4
- M4 star washers [G] x 4
- Hallen key [H] x 1
- Projector fastening plates [I] x 4
- M4 self-tapping nuts [J] x 4





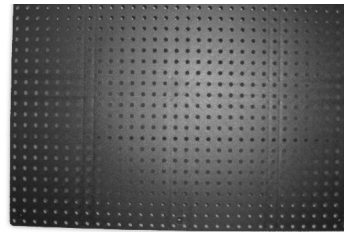
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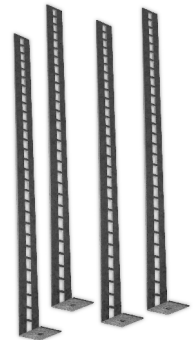
BAG 2

- 1 230VCA connection cable
- 1 UP/DOWN operation connection



LOOSE:

- 1 End crowning plate
- 4 VL closing columns



3 – SAFETY MEASURES

- All electrical work required on this equipment must be carried out by qualified electronic, electricians or competent personnel in accordance with the electro-technical requirements of each country.
- The power circuit requires a bipolar switch with a **MINIMUM** 3 mm separation between contacts. Inflammable materials must not be placed within a 1 metre radius of the device (see instructions manual for the video projector to be installed).
- Fasten and protect the power supply, operation, data, etc. cables and tubing. Ensure that they are not near any moving parts or heat sources.
- **Video Lift** must be positioned on the ceiling at a certain distance so that it is not within anyone's reach, fastened to the building, or on a metal support adequate for the resistance and weight of the device, **plus the image projector**.
- **Video Lift** will not be accessible while in operation. Before accessing the connections inside the device, all of its electricity supply circuits must be disconnected.
- The position of the work is horizontal with the multi-boring plate facing downwards.
- The devices must be checked once every 90 days. The parts which fasten to the structure, the moving parts, mechanical cables, electrical parts, etc. must be reviewed and greased if required.
- Do not install this device anywhere unstable.
- Do not change or modify this unit.
- Do not use this unit in a bathroom or near inflammable liquids or gases.
- Do not connect the unit to any electrical voltage other than that specified.
- **If you have any queries, please contact the Technical Service or distributor.**

4 –DESCRIPTION AND OPERATION OF THE COMPONENTS

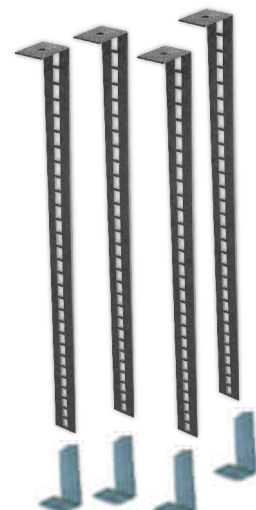
detail 1

connection detail
VIDEO LIFT



closing columns
VIDEO LIFT

detail 2





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Cross-section of the closing columns at the height required by the projector for subsequent fastening (with glue, silicone, etc.) of the ceiling's end crowning plate.

detail 3

5 - VIDEO LIFT INSTALLATION AND CONNECTION

Installation:

Remove the ceiling support from the packaging. Position the support chassis in the place you have chosen to install it, then, with a felt-tip pen, pencil, etc., mark the places for the 6 ceiling support holes. Fasten using rawlplugs and/or braces; (we recommend high-quality ones), not smaller than 8/10 mm. Position the ceiling support and screws in the rawlplugs. By screwing perpendicularly, tighten the support firmly on to the ceiling.

It is necessary and important that the ceiling support is levelled horizontally (0°). Use a level to ensure the exact reference.

On either side of the lift there are 4 hexagonal-head M5 screws (see figure 2).

Remove the 4 M5 screws on the ends, loosen the 4 central screws remaining in the lift. Separate them approximately 5 mm from the chassis without removing their nut.

Ensure your personal stability.

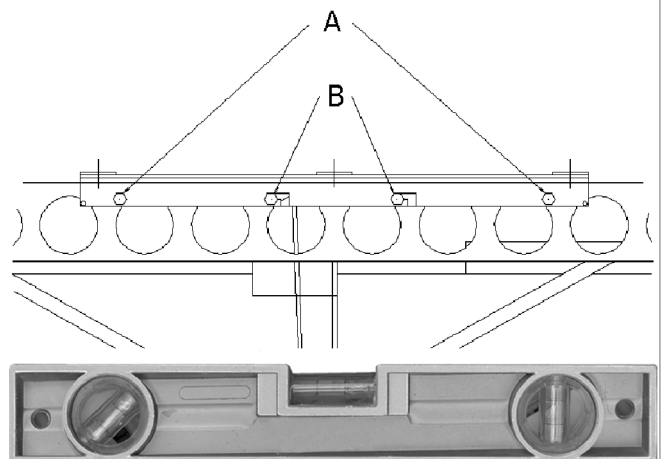
Holding the lift with both hands, position the central screws in the bayonet-shaped grooves. Move the **Video Lift** on to the ceiling support and leave it on its housing.

Replace the 4 end screws to their positions and firmly fasten the body of the **Video Lift** to the ceiling support.

If greater safety is required, fasten a chain or steel cable between the **Video Lift** and a steel or concrete beam.

correct levelling
VIDEO LIFT

figure 1



brace detail
VIDEO LIFT

figure 2





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Electrical Connection:

- **Complete all the connections, always without electricity.**
- Remove the packaging from the power supply cable and the connector for the up/down switch.
- Connect the VDE approved power supply cable to 230 VAC electrical current.
- To the up/down connector, you must connect three electrical wires (1.5 minimum section) which will connect to an up/down switch (not supplied), or to the electronic operation control (see the manual for your electrical equipment). In any event, **the contacts must be voltage-free** (see connection diagram).

Circuit diagram:

The **Video Lift** structure is finished with a perforated, reinforced plate to support equipment of up to 19 kg. This tray has been designed so that no drilling need be done to fasten the video projector. Result: it can be adapted to any video projector base on the market. To save these large-space perforations, **Video Lift** provides you with four plates of four 140 x 140 mm bores (accessory I), which will act as washers for the screws to fasten the video projector.

IMPORTANT

Ensure that the weight of the projector is as centred as possible on the **Video Lift** tray. Movement will be much more vertical, causing less friction and avoiding any possible operating noises.

SAFETY

Video Lift is fitted with two safety systems which are described below:

It is protected by breaking the electrical current:

- A.** When the permitted load has been exceeded: the projector + video, data, control, cables etc. + accessories must not exceed 19 kg.
- B.** The motor protection will be activated if the latter becomes blocked with external elements during the **Video Lift** running process.
- C.** When operating continuously for any time longer than 4 minutes. The motor is protected when a temperature which may damage it is detected.

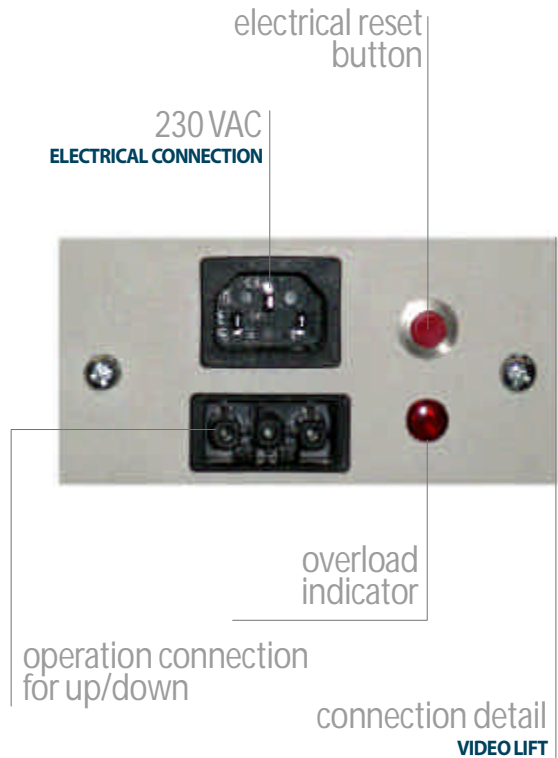
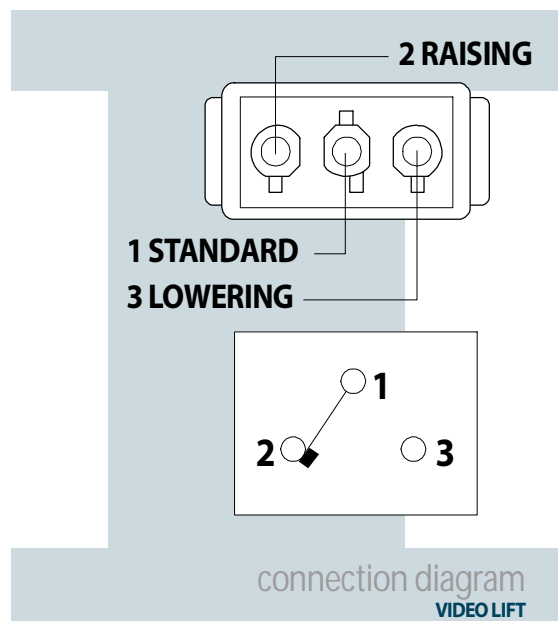


figure 3



connection diagram
VIDEO LIFT

**DO NOT CONNECT
TO THE POWER SUPPLY
WITHOUT ELECTRICAL CURRENT
Switch (not included)**



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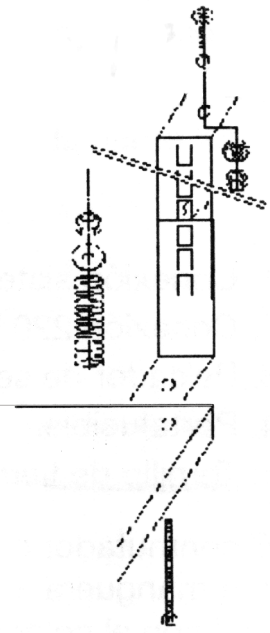
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In cases A and B, activate the reset button again (figure 3).

In case C, the motor will become cold and its thermal protection will keep the motor's mechanism in use.

- In connections to the projector, use flexible cables or extra-flexible cables for better vertical movements of **Video Lift**.
- Make a spiral or spring with the cables (video, PC, etc.) the same shape as the projector power supply cable, fastening it with flanges to the bridges (eyes) on the pantograph.
- Monitor and prevent the cables from rubbing against any moving parts of the **Video Lift** mechanism.



assembly process
VIDEO LIFT

figure 4

ASSEMBLING THE ACCESSORIES

You now know the height of the projector equipment and the space that it occupies. Use the VL closing columns by joining them to the bayonet brackets and check the height required to fasten the multi-bore plate.

Cut off the excess multi-window rod.

Figure 4 shows how to fasten the bracket to the multi-bore plate in the following order:

M screw – spring – washer – M self-tapping screw.

The opposite end must be joined to the projector fastening tray using the screws, washers and nuts supplied in the accessories kit.

REGULATING THE RUN

Once the electrical installation is complete and checked, and the motor wires have been connected, adjust the motor run-end in its mechanical fastening.

The **Video Lift** motor system has a rest regulation (up) position and a work regulation position (down).

Video Lift is supplied by the manufacturer with the up rest regulation position at its maximum and the work regulation position at 1 metre and 2 metres, which is the longest possible distance for the VL-100E and VL-200E models, respectively. To change the up or down run-ends of the lift, follow these guidelines. Ensure that the motor stops at the end where the cable, light indicator, etc. is installed and at this end you will see two marks, 1 and 2 (see figure 5).

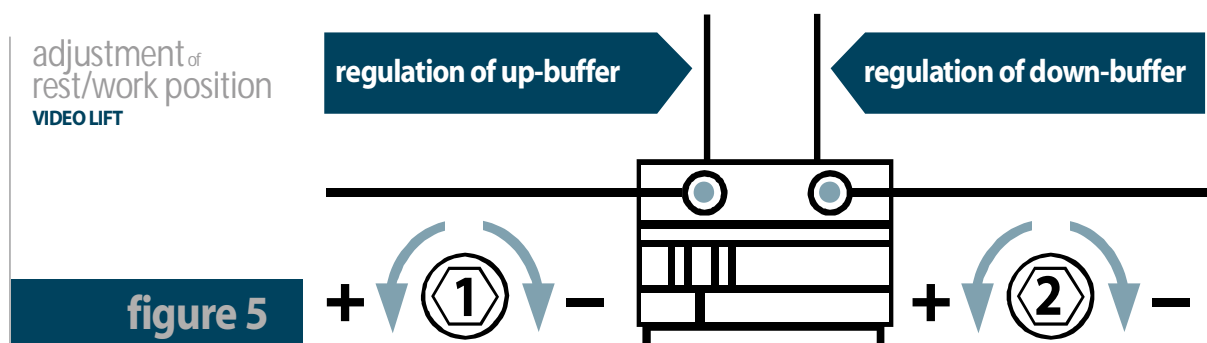


figure 5

Connect Video Lift to the electricity supply and leave the operating switch in the **DOWN** position.

PROJECTION

With the Hallen key from the accessories kit, turn screw 2 in a down + direction to obtain a greater distance from the projector with regard to the ceiling. If you want to reduce this run, turn screw 2 in a down - direction.







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HIDE

With the Allen key, turn screw 1 in an up – direction. To go up, stop the Video Lift-projector beforehand and position the multi-bore plate at the same level as the enclosure ceiling. Turn screw 1 in a + direction to obtain the opposite effect.

Screw 1	Screw 2	
 (-) direction for raising the Video Lift more (Projector+multi-bore plate)	 (-) direction for lowering the Video Lift less (shorter projector-ceiling distance)	
 (+) direction for raising the Video Lift less (projector+multi-bore plate)	 (+) direction for lowering the Video Lift more (greater projector-ceiling distance)	

Important:

Remember that in the rest or retraction position, thanks to its springs, **Video Lift** allows you to adapt the plate (between 3 and 4 cm) to the possible imperfections on the ceiling.

Final Tip:

Try and fasten light materials (which weigh very little) to the multi-bore plate, such as balsa wood, high-density, expanded polyurethane, plastic, etc., which eliminate weight and adapt easily to the artistic use and final decor of the surroundings.

THANK YOU FOR CHOOSING VIDEO LIFT

7 – TROUBLESHOOTER

- The system does not work.

The pilot light is off:

1. Check that there is a 230-V power supply.

The pilot light is on:

1. Check the 230-V input voltage.
2. Check the cabling and operating switch and circuit diagram.
3. Check that the overload micro-switch has not jumped; to do this, press the safety button (figure 3, reset button), with the lift operating switch in the projection position.
4. Ensure that the **Video Lift** equipment has not been in operation for more than 4 minutes. Wait until the motor has cooled down.

- The steel cable has come out of its guide channel:

1. Check the HORIZONTAL status of your lift using a level. Check that the video projector is balanced.
2. Check that no foreign object prevents the cable from entering its guide channel.
3. Activate the lift downwards fully, guide the cable in its guide channel from the start and activate the upwards movement. If the cable is bulkier, if there are any stray hairs, if it is folded, rusted, etc., or it is in a bad condition, send it to the technical service.



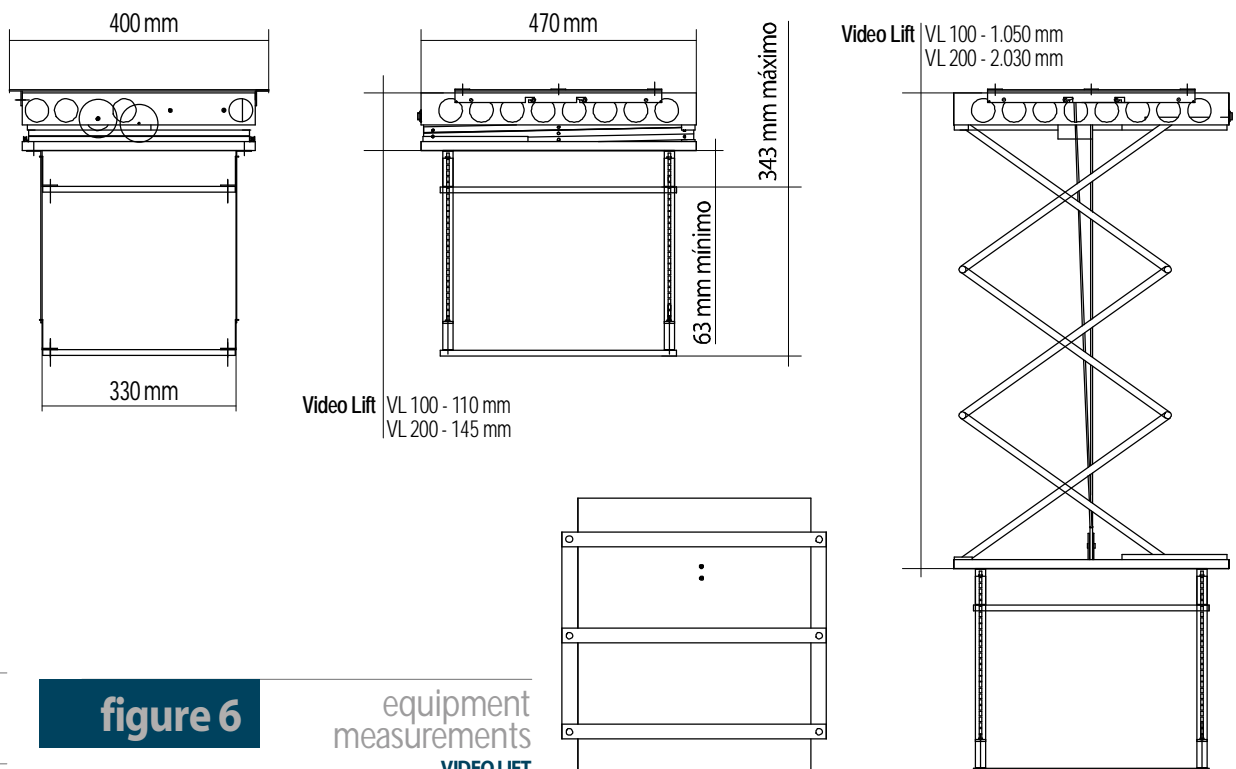
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8 – TECHNICAL INFORMATION

	VL-100E MODEL	VL-200E MODEL		
Equipment *:	width 400 mm. length 470 mm. height 110 mm.	width 400 mm. length 470 mm. height 140 mm.		
* further details in figure 6 With packaging:	width 455 mm. length 480 mm. height 220 mm.	width 455 mm. length 480 mm. height 220 mm.		
Net weight:	10.4 kg.	12.2 kg.		
Gross weight:	16.0 kg.	18.0 kg.		
Maximum work run:	105 cm.	203 cm.		
Noise level:	< 50 dB.			
Tubing:	insulation.			
Maximum permitted consumption:	5 Amp. (including the consumption by the equipment to be installed)			
Ambient temperature:	40°C maximum.			
Up or down speed:	45 seconds a metre.			
Maximum load:	19 kg. (Video Lift + projector) (including the micro-switch safety system).			
Continuous motor operating time:	4 minutes (with the thermal safety system)			
Regulation of up-run end:	YES			
Regulation of down-run end:	YES			
Mechanical protection:	YES			
Electrical protection:	Protection to be installed by the user/installer			
Insulation:	1000 V.			
Consumption:	105 W / 0.5 Amp.			
Power supply:	230 V / 50 Hz.			
Electrical guarantee	2 years			
Mechanical guarantee	3 year			





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9 -MAINTENANCE

This equipment has been constructed for low-level maintenance:

Grease the axles on the pantograph joints every **6 months** with a drop of very fluid SAE 20 oil. Check the steel cable every **2 months**; ensure that there are no faults or loose hairs or breakages throughout its run.

10 -GUARANTEE

Video Lift has established the following guarantees for its devices:

For 24 months after the date of billing and for the first customer, we undertake to repair or replace all parts which, in the opinion of the company, are due to faults in the materials used in manufacturing its equipment. Repairs will be carried out at our Technical Support Service. The SOMFY operating motor has a 36-month guarantee of use. Transfer, carriage and haulage costs of the equipment to our workshops and return to the customer are excluded. Not included in the guarantee: damage or faults cause by undue use, incorrect installation, faults attributable to carriage or incorrect packaging when the equipment is being returned.

Video Lift is not responsible for direct or indirect eventual damage caused to people or things due to damage or faults with its equipment, and does not accept any liability or responsibility, whatever it may be.

11 – HC60.60 FRAMEWORK KIT

OPTIONAL ACCESSORIES

Four aluminium profiles, brackets, screws, etc. to construct a framework to replace technical ceiling guides (Armstrong or similar) on wood, plaster, etc. ceilings, with a professional finish such as the **CINEMA MIRROR** support. It also settles the **Video Lift** closing system finish in its installations.

INTERIOR DIMENSIONS:	597 x 597 mm.
EXTERIOR DIMENSION:	640 x 640 mm.

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