

# LITTLE-WINKY TM7 - User Manual

---

*LIGHTING TOWER WITH MANUAL LIFTING SYSTEM*





# CONTENTS

<b>1. INTRODUCTION.....</b>	<b>5</b>
1.1 Symbols.....	5
1.2 Warnings .....	6
1.3 Safety standards.....	7
<b>2. OVERVIEW .....</b>	<b>9</b>
2.1 Description of the electrical control panel.....	10
<b>3. HANDLING .....</b>	<b>11</b>
3.1 General precautions for transportation and handling of the equipment .....	11
3.2 Handling by forklift truck.....	11
3.3 Moving using cables or chains.....	12
3.4 Moving using handles.....	12
<b>4. INSTALLATION.....</b>	<b>14</b>
4.1 Preliminary checks.....	14
4.2 Positioning the stabilisers and levelling the lighting tower .....	14
4.3 Extracting the stabiliser.....	14
4.4 Rotating the telescopic mast .....	15
4.5 Raising the telescopic mast .....	15
4.6 Connections .....	16
4.7 Adjusting floodlights and mast orientation.....	17
4.8 Electrical power supply.....	17
<b>5. MAINTENANCE.....</b>	<b>18</b>
<b>6. GENERAL TERMS AND CONDITIONS .....</b>	<b>20</b>
6.1 Warranty .....	20
<b>7. LIGHTING TOWER DATA.....</b>	<b>21</b>



# 1. INTRODUCTION

## 1.1 Symbols

The safety warning symbols used in this Operations and Maintenance Manual indicate the risk incurred if the instructions provided are not followed.



GENERAL HAZARD - Failure to comply with this warning, may result in personal injury or property damage



HIGH VOLTAGE - Some parts may be live and dangerous to touch. Failure to comply with this warning may result in danger of death.



FIRE- Fire hazard. Failure to comply with this warning may cause a fire



HEAT - Hot surfaces. Failure to comply with this warning may result in burns or property damage.



EXPLOSION - Explosive material or general risk of explosion. Failure to comply with this warning may produce an explosion.



ACIDS - Danger of corrosion. Failure to comply with this warning may result in corrosion damage for people or property.



PRESSURE - Danger of scalding from jets of pressurised hot liquids



FIRE PREVENTION MEASURES - Fire prevention measures should be set up according to current safety laws and/or local regulations, to prevent the working area from going on fire for accidental reasons, causing serious injuries or death.



FIRST AID MEASURES - First-aid measures should be set up according to current safety laws and/or local regulations, in the case any operator is hit accidentally by corrosive and/or hot liquids, asphyxiating gases and/or anything which may cause serious injuries or death.

## 1.2 Warnings

The lighting tower described in this manual provides electric lighting by transforming the mechanical energy from an alternator-powered combustion engine.

Before operating the lighting tower, carefully read the manual and follow the instructions provided.

This manual was designed to be used by qualified personnel with knowledge of the laws in force on the safety and installation of generator sets. It contains important information on how to use and service the equipment supplied. Before operating the equipment, we advise you to read it and carefully follow the instructions and highlighted warnings it contains.

The machine must be kept in a safe place and used by qualified personnel to carry out the operations. If the machine is sold, all the documentation as it is an integral part of the product.

Our customer service and technical assistance department is available to assist you in any way.

Only use genuine parts in case replacement is required; failure to comply will void your warranty automatically. .

Use of the product, other than the intended use, relieves the producer from any risks arising from its improper use. The producer cannot be held liable for any injury to people, animals or property damage.

Do not damage this manual, do not remove or tear any pages and keep it away from moisture and heat sources . Please note that the drawings contained in the manual are merely to help you identify the parts described and, therefore, they might not correspond precisely to your machine .

The contents of this manual are not binding. The producer reserves the right to make changes and improvements to accessories and details without altering the essential characteristics of the model described and illustrated here and without committing to promptly updating this manual.

### 1.3 Safety standards

The data contained in this manual may be changed without prior notice. The instructions in this manual are to be intended as general guidelines. The user is responsible for assessing potential risks and damage to people and objects when the product is used under the specific conditions of use. Failure to comply with the instructions given herein, may cause damage to people and things. , It is understood that compliance with local provisions and/or laws in force is compulsory.

- Before starting the machine, carefully read the safety instructions contained in this manual and in the other manuals provided (engine, alternator, etc.).
- Handling, installation, use, maintenance and repair operations must be carried out by authorised and qualified personnel.
- During operations, wear your personal protective equipment (PPE): footwear, gloves, helmet, etc.
- The owner is responsible for ensuring safe equipment use.
- Only use the equipment under perfect technical conditions. Machines or equipment must be in perfect technical status. Any defects which may impair safe conditions of use must be removed immediately.
- Before operating the equipment, make sure you know all the controls to operate and position the equipment, in order to avoid accidents to people and/or damage to the equipment. Namely, it is important to know how to stop the equipment quickly in the event of an emergency.
- Do not allow anyone to use the equipment until they have been trained and given all the information on how to use it correctly and safely.
- Do not allow unauthorised people, children or pets to access the operational area, to protect them from serious injury caused by any part of the equipment.

#### SAFETY INSTRUCTIONS DURING HANDLING AND TRANSPORT

- Only use the specific points provided to lift the equipment. The hoist eye or eyes and the correct position of the lift truck forks are marked with special stickers.
- Lower the telescopic mast before handling the equipment and use the lock devices provided to lock any parts which might move, e.g. hatches, mast, stabilisers, lights.
- Ensure to clear the handling area of any unauthorised people and any possible obstructions. Always use adequately sized lifting equipment, controlled by certified bodies.
- Never fasten objects or accessories to the lighting tower frame, which modify the equipment weight and centre of gravity and subject the hoist points to unexpected stresses.
- Do not subject the machine and lifting equipment used to undulating or sudden movements, which transmit dynamic stresses to the structure.

## SAFETY INSTRUCTIONS DURING INSTALLATION AND USE

- Always place the lighting tower on a solid, flat surface, which is not subject to subsidence, in order to avoid tipping, sliding or falls during operation. Avoid using the tower on a ground with a slope of over 10°.
- Ensure the area surrounding the machine is clean and free from debris.
- Ensure the area above the lighting tower is free from overhead cables or other obstacles. The lighting tower reaches a max operating height of 7.5 metres.
- Before raising the telescopic mast, pull out the stabilisers located on the side of the mast and use a spirit level to place the lighting tower on a perfectly horizontal plane. Ensure the lighting tower is safely resting on the stabilisers.
- Do not use the lighting tower if the wind speed exceeds the safe speed specified, or if storms or thunderstorms are expected in the area.
- Lower the telescopic mast when the tower is not in use.
- Earth the machine in compliance with the local legislation in force .
- Use the earth terminal inside the machine.
- Do not use the lighting tower with wet or damp hands and/or clothes.
- Use electric plugs suitable for the equipment output sockets and check the electric cables are always in good condition.
- When using the unit in a closed environment, installation must be carried out by qualified technicians and made to the highest standard.
- Do not touch and place objects on the floodlights while they are on, nor immediately after use. The lamps become extremely hot.
- Do not switch on the lamps without the protective glass or with broken or damaged glass.
- Immediately stop the equipment in case of malfunctioning. Do not switch the equipment back on until you have identified and resolved the problem.

## SAFETY INSTRUCTIONS DURING MAINTENANCE



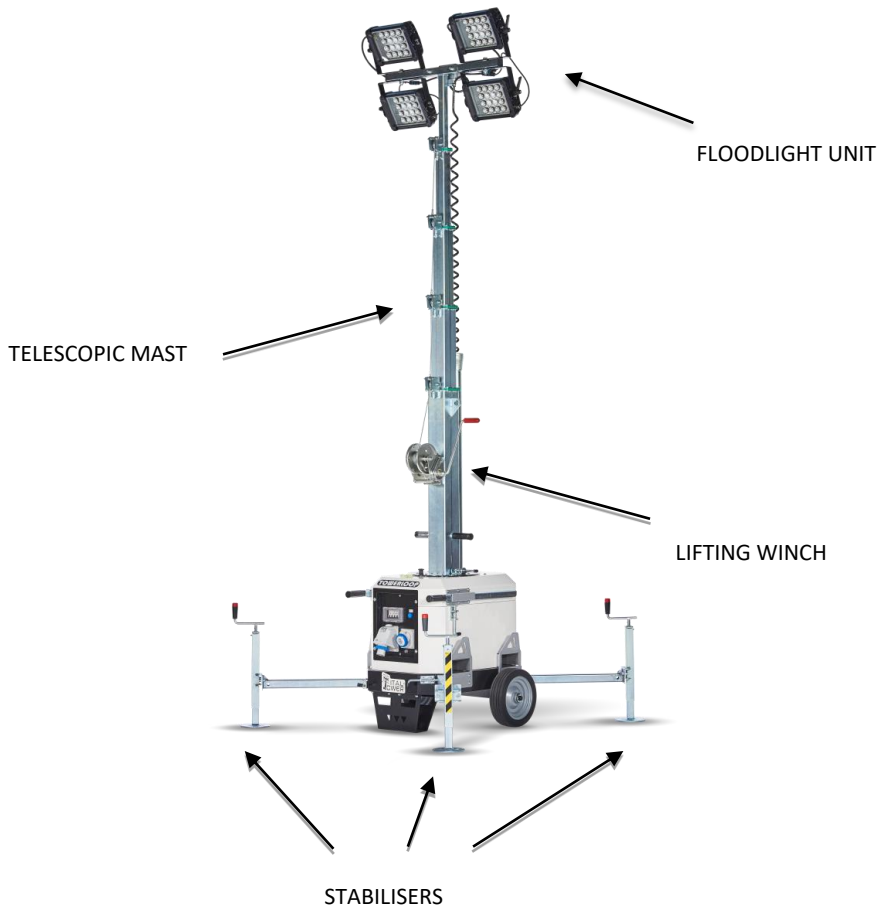
- Only qualified personnel is authorized to carry out maintenance and troubleshooting.
- Always use personal protective equipment and adequate tools.
- Always disconnect the lamps from the power supply and wait for them to cool before carrying out any maintenance or replacement on them.
- Do not remove any protective or safety devices unless strictly necessary. Reset them when maintenance or repairs have finished.



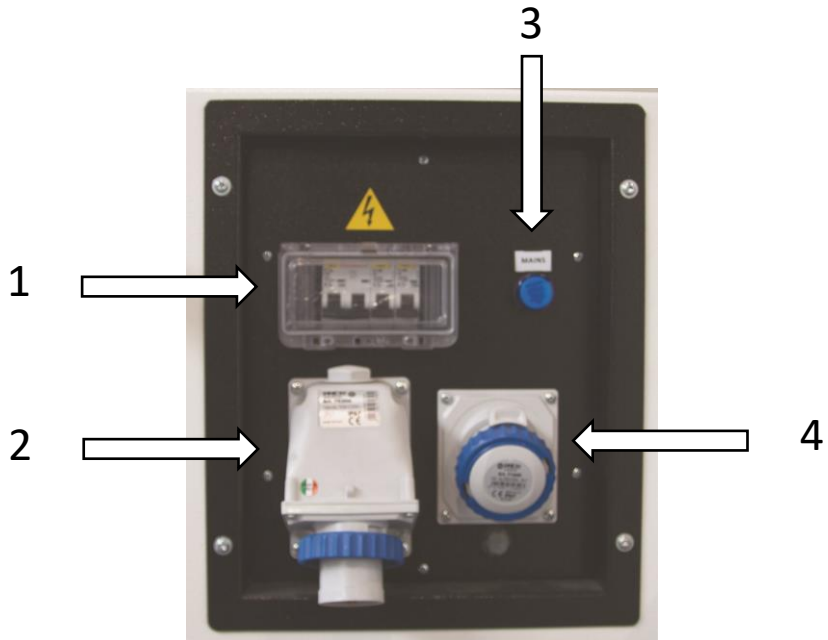
## 2. OVERVIEW

The lighting tower consists of:

- a telescopic mast with manual winch, maximum vertical operating height of 7 metres and 360° manual rotation;
- floodlight unit;
- command and control panel for lighting tower protection and operation;
- 4 extendable, height adjustable stabilisers to guarantee tower stability.



## 2.1 Description of the electrical control panel



No.	DESCRIPTION
1	THERMAL/MAGNETIC CIRCUIT BREAKER 230 V 50 Hz 25 A
2	SINGLE PHASE MAINS INPUT 230 V 50Hz 16 A 2P+T
3	MAINS SUPPLY WARNING LIGHT
4	SINGLE PHASE MAINS OUTPUT 230 V 50Hz 16 A 2P+T

## 3. HANDLING

### 3.1 General precautions for transportation and handling of the equipment



Outmost care must be taken when handling and moving the lighting tower. All handling operations must be carried out by qualified personnel. Due to the overall size and weight, an error during equipment handling may cause very serious damage to the unit and people in the vicinity.

To minimise the hazards arising from handling the lighting tower, it is mandatory to follow the instructions below:

- Always transport the tower with disconnected electric cables.
- Clear the handling area from any obstacles and unnecessary personnel.
- Always use adequately sized lifting equipment, checked by certified bodies. Never fasten objects or accessories to the lighting tower frame that may change the weight and centre of gravity of the unit and might expose the hoist points to unexpected stresses.
- Do not subject the unit and lifting equipment to undulatory or sudden movements, which might transfer dynamic stresses to the structure.
- To access the special hooks, only use approved ladders or a ladder held by a second operator. Wear special non-slip shoes to climb the ladder.

### 3.2 Handling by forklift truck

When lifting the tower using a forklift truck, it is mandatory to:

- Insert the forks into the dedicated openings on the side and front of the frame.
- Let the forks protrude from one side to the other and always keep the lighting tower horizontal.

The stickers on the base signal how to position the truck forks correctly.



### 3.3 Moving using cables or chains

When lifting the tower using cables and/or chains, the use of equipment regularly checked by certified organisations is mandatory. Hook the ropes or chains exclusively to the dedicated anchoring points and marked by special stickers.

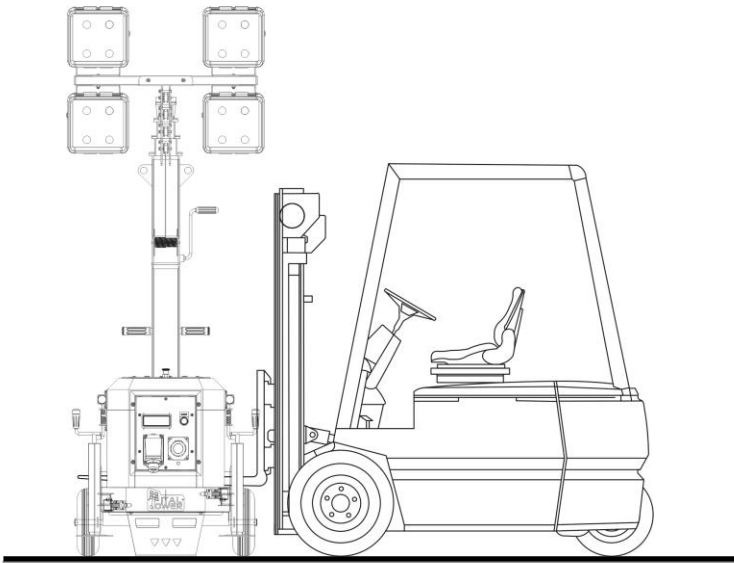
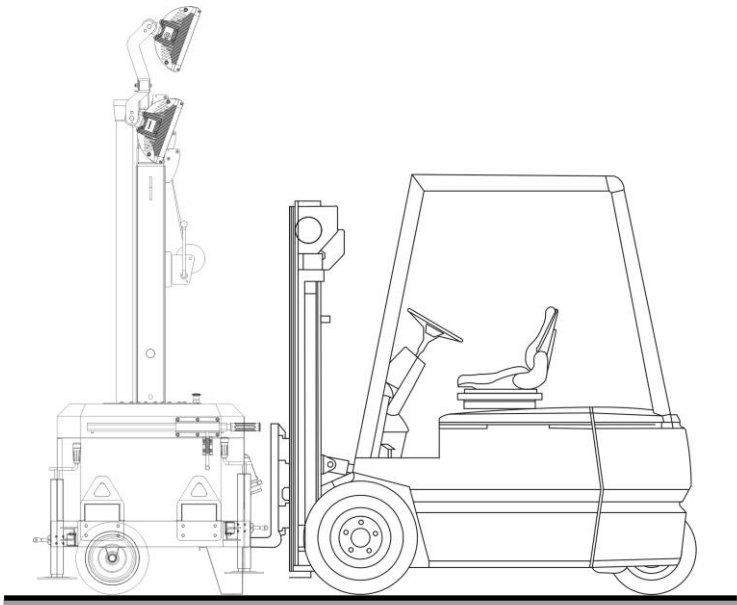
### 3.4 Moving using handles

Before moving the tower, lower the telescopic mast and retract the stabilisers.

Remove the safety lock and pull out the special handles. Lock them again before you move the tower.

Lift and move it to the required area.





## 4. INSTALLATION

### 4.1 Preliminary checks



Before operating the lighting tower, make sure to follow all the safety instructions concerning installation and use, as indicated in the relative section in this manual. More specifically, make sure that:

- the plain on which the lighting tower is placed is even and without any obstacles;
- there are no overhead obstacles or power lines above the lighting tower;
- the maintenance of the lighting tower has been regularly carried out;
- the cables to raise the mast are in perfect condition.

### 4.2 Positioning the stabilisers and levelling the lighting tower

- Unlock the pins of the front stabilisers' extension arms; extract the extension arms until the pins lock again with the arms fully extended.
- Lower the rear stabilisers and fasten them with the clamping lever.
- With the aid of the spirit level on the unit, lower the front stabilisers and adjust the levelling of the lighting tower by means of the cranks.

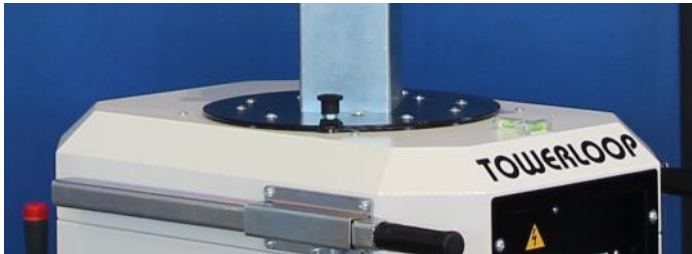
### 4.3 Extracting the stabiliser

Extract the stabilisers and adjust the lighting tower supports by rotating the stabiliser' support feet clockwise or anticlockwise.



#### 4.4 Rotating the telescopic mast

Remove the lock pin at the base of the telescopic mast and place it in the required point. Once in position, insert the pin to block the mast.



#### 4.5 Raising the telescopic mast

Use the lift winch to raise the telescopic mast to the required height.



## 4.6 Connections

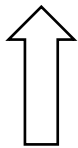
Switch all the thermal magnetic circuit breakers to “OFF” before connecting the lighting tower to the mains.

Switch the mains inlet thermal magnetic circuit breaker to “ON” and check voltage.

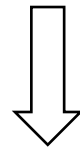
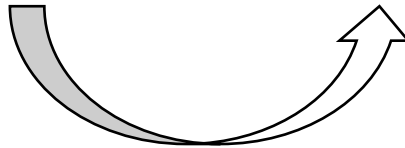
After checking the voltage, turn the floodlights’ thermal magnetic circuit breakers to “ON”. The “floodlights on” warning should light on.



**N.B.:** up to two metal-iodide lighting towers can be bridged (up to six with LED floodlights) using the single phase outlet on the machine and connecting it to the mains supply inlet of the next tower.



Mains inlet  
230V 50Hz



Mains outlet  
230V 50Hz



#### **4.7 Adjusting floodlights and mast orientation**

The floodlight beam can be turned as required in two ways:

- by adjusting the tilt of each floodlight;
- by turning the mast in the required direction.

To tilt the floodlights, loosen the clamping screw, rotate the floodlight in the desired position and fasten it back. To rotate the mast, pull the pin out and turn to hold it in that position. Use the handles to turn the mast in the direction required. Unblock the pin and slightly rotate the mast until the pin falls back into lock position, avoiding the free rotation of the mast.

Switch the thermal magnetic circuit breaker ON.

Use the manual winch to raise the mast to its full height. Use the thermal magnetic circuit breakers on the panel to switch on the lamps. After using the unit, switch off the lamps before lowering the mast. Use the manual winch to lower the mast.

#### **4.8 Electrical power supply**

An incorrect or faulty electrical installation can cause current dispersion, which can affect the lighting tower's efficiency and safety.

The installer must ensure all the necessary precautions have been taken to guarantee protection against corrosion of the lighting tower.

## 5. MAINTENANCE



- Use qualified personnel to carry out maintenance and troubleshooting.
- Remove the casings only if necessary to carry out maintenance. Put them back in place when maintenance has been completed.
- Wear adequate clothing and use suitable instruments; do use the PPE (Personal Protective Equipment) provided, according to the type of intervention (protective gloves, insulated gloves, goggles, etc.).
- Do not modify any components unless authorised.

### WARNINGS

Maintenance by the user refers to all the operations and checks of the mechanical, electric and fluid parts subject to wear and tear under normal machine use. With regards to fluids, maintenance operations include the occasional top-ups and regular replacement. Maintenance operations also include regular cleaning of the machine to be carried out outside the normal work cycle. Maintenance does not include repairs or replacement of parts subject to occasional breakdowns and the replacement of worn electric and mechanical components due to normal use, either by Authorised Customer Centres or directly by the company. For regular maintenance to be carried out at intervals defined according to hours of operation, please refer to the hour counter.



During maintenance use extreme caution while handling polluting substances, liquids, spent oils, and any other substance that can damage people or objects, or become an hazard for the environment and the health and safety of the people. Compliance with the local laws and/or provisions in force is mandatory.

## ELECTRICAL CONTROL PANELS

Regularly check the condition of the cables and connections. Clean them regularly using a vacuum cleaner. **DO NOT USE COMPRESSED AIR.**

## STICKERS AND PLATES

Regularly check all warning signs on stickers and plates. If illegible and/or missing, **REPLACE THEM.**

## STEEL CABLES

Regularly check the condition of the telescopic mast steel cables. In case of visible wear and tear, abrasion, broken wires or loose connection, the lighting tower must not be used. Immediately schedule the replacement of the cables.

**CAUTION:** in the event of a replacement, use a cable with the same characteristics of the original. We strongly recommend the use of original spare parts.

## PULLEYS

Regularly check the correct rotation of the pulleys and the smooth operation of the cables.

Regularly lubricate with a multi-purpose, lithium lubricant.

## TELESCOPIC MAST

Check the mast's correct extension up and down. Regularly lubricate the mast with anti-corrosive, water-repellent, lubricant spray.

## FLOODLIGHTS

In case of floodlights replacement, do not touch them with bare fingers. Use a cloth or wear cotton gloves. Take care as the headlights become very hot when they are in use: wait for them to cool down before replacing them.

## 6. GENERAL TERMS AND CONDITIONS

### 6.1 Warranty

The product warranty is subject to the company's general terms and conditions of sale.

Acknowledgement of the warranty depends on proof that the instructions for use contained in this manual have scrupulously been complied with, and the unit has been operated by personnel with mechanical, hydraulic and electro-technical knowledge.

All the products are covered by a 12-month warranty, which covers every defect in the manufacture of our products and includes the replacement/repair of the faulty pieces.

The warranty is no longer valid in the following circumstances:

- tampering with the lighting tower (modifications without prior authorisation);
- breakdown due to lack of or inadequate protection, and/or incorrect connection;
- breakdown caused by exceeding the rating plate limits;
- normal wear and tear of the lighting tower;
- non-compliance by the personnel in charge of installation of the operational regulations given;
- accidental causes, natural disasters of every kind, e.g. fires, floods, water or lightning;

The faulty material shall be sent carriage paid to the producer, which reserves the right to pass unquestionable judgement on the reason for the defect.

The warranty applies solely to resetting the original specifications of the product and does not cover any damage to people or objects.

## 7. LIGHTING TOWER DATA

MODEL	
GENERATOR SET SERIAL NO.	
ENGINE	
ENGINE SERIAL NO.	
ALTERNATOR	
ALTERNATOR SERIAL NO.	
VOLTAGE	
FREQUENCY	
MAXIMUM CURRENT	
ENGINE REVS	
POWER PRP KVA (KW)	
POWER LTP KVA (KW)	
WEIGHT	
START-UP DATE	

*Please complete the table by entering the data given on the model plate on the unit if the sticker is damaged.*





