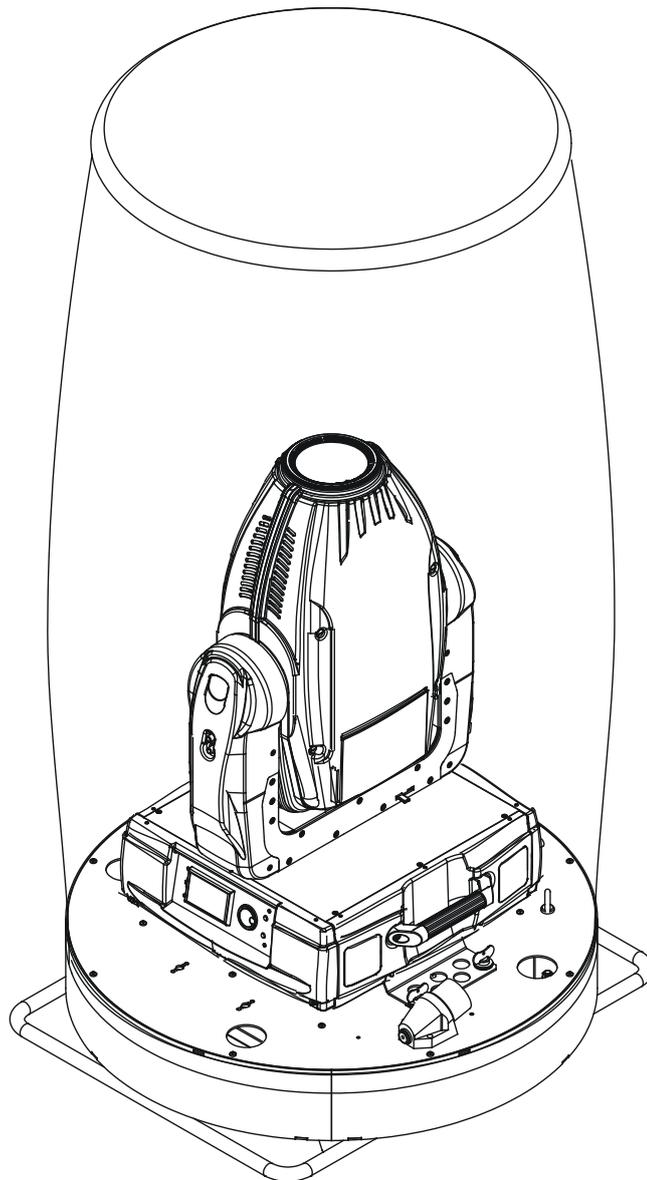


**ROBE**

# LightDome 575 LightDome 1200



**USER MANUAL**

version 1.6

# LightDome 575

# LightDome 1200

## Table of contents

<b>1. Introduction.....</b>	<b>3</b>
<b>2. Safety instructions .....</b>	<b>3</b>
<b>3. Operating determinations.....</b>	<b>3</b>
<b>4.The LightDome - description.....</b>	<b>4</b>
<b>5. Installing and operating .....</b>	<b>4</b>
5.1 AC power .....	4
5.2 Placing the LightDome on a plain surface.....	4
5.3 Truss mounting .....	5
5.4 Inflating the LightDome .....	6
5.5 Deflating the LightDome .....	6
<b>6.Cleaning and maintenance.....</b>	<b>7</b>
<b>7.Technical Specifications.....</b>	<b>8</b>

# 1. Introduction

Thank you for having chosen a LightDome. You acquired a versatile, light weight and inflatable transparent housing for protection of moving head against weather influences in temporary outdoor applications. The LightDome 575 was designed to be operated with moving heads of ROBE 575/250 AT series. The LightDome 1200 was designed to be operated with moving heads of ROBE 1200/700 AT series .

**FOR YOUR OWN SAFETY, PLEASE READ THIS USER MANUAL CAREFULLY BEFORE YOU INITIAL START - UP!**

## 2. Safety instructions

Every person involved with installation and maintenance of this product has to:

- be qualified
- follow the instructions of the manual

**CAUTION!**  
*Use only the luminaire enables remote on/off the lamp.*

This product has left our premises in absolutely perfect condition. In order to maintain this condition and to ensure a safe operation, it is absolutely necessary for the user to follow the safety instructions and warning notes written in this manual.

### **Important:**

The manufacturer will not accept liability for any resulting damages caused by the non-observance of this manual or any unauthorized modification to the product.

Always ground the unit electrically.

The electric connection, repairs and servicing must be carried out by a qualified employee.

Do not cover the transparent envelope.

Do not block the air vents.

Do not sit or lean on the unit.

Do not use this device in very dusty area.

Do not operate this unit in big winds.

Use a source of AC power that complies with local building and electrical rules. AC power has to have both overload and short circuit protection

## 3. Operating determinations

This product was designed for protection of moving heads against weather influences in temporary outdoor applications.

Avoid brute force when installing or operating the unit.

When choosing the installation-spot, please make sure that the unit is not exposed to extreme heat or dust.

Only operate the unit after having checked that the housing is firmly closed and all screws are tightly fastened.

The maximum ambient temperature 30° C must never be exceeded.

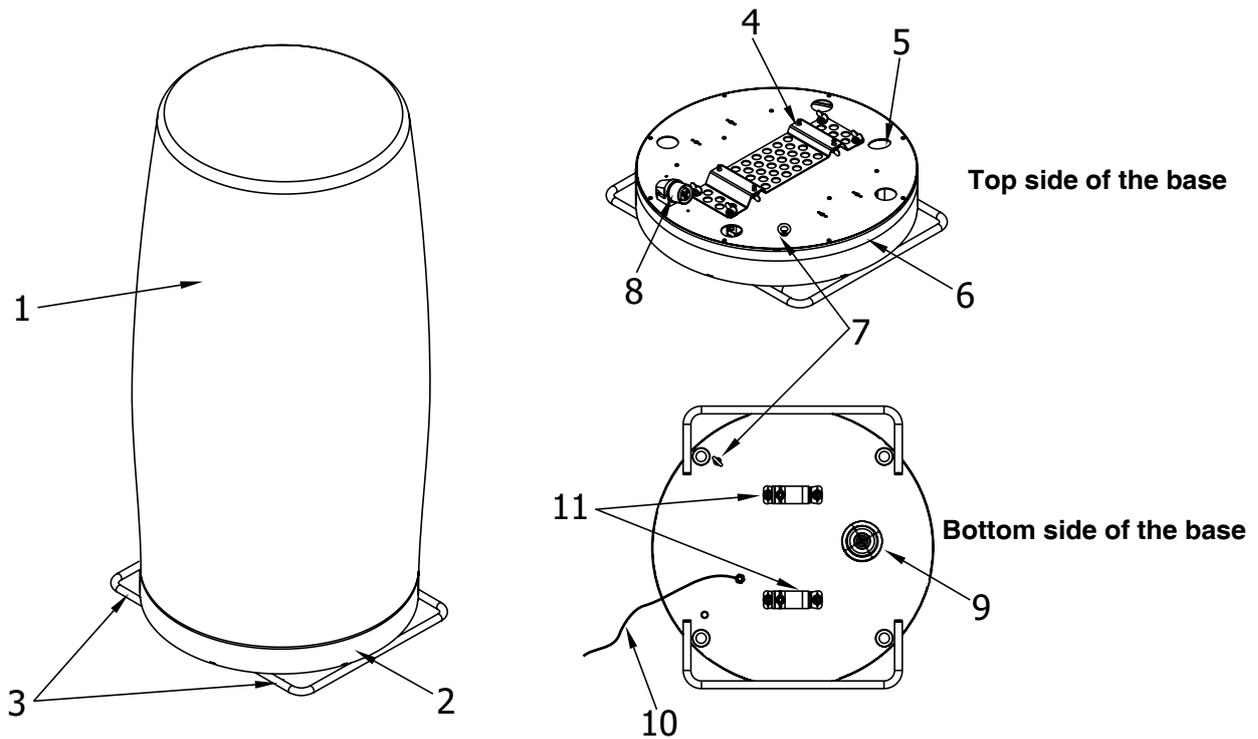
Operate the unit only after having familiarized with its functions. Do not permit operation by persons not qualified for operating the unit. Most damages are the result of unprofessional operation!

Please use the original packaging if the product is to be transported.

Please consider that unauthorized modifications on the unit are forbidden due to safety reasons.

**Store the fold plastic dome at least 1 hour at room temperature before first installing it on the base.**

## 4.The LightDome - description



- 1 - Plastic dome
- 2 - Base
- 3 - Handles
- 4 - Mounting plate
- 5 - Air vent

- 6 - Seal belt and strip of Velcro fastener
- 7 - Safety loops
- 8 - Power outlet for fixture
- 9 - Fan grid
- 10 - Power cable
- 11 - Omega holders

## 5. Installing and operating

### 5.1 AC power

#### Power supply.

The LightDome is equipped with an auto-ranging power supply for AC 180-250V or 90-125V at 47-63Hz.

#### Power connection.

The LightDome is supplied with a 2.5-meter length of 3-conductor electrical cable for connection to the AC power. Install a 3-prong grounding-type plug on the electrical cable. The earth has to be connected! If you have any doubts about proper installation, consult a qualified electrician.

#### Cord plug connections:

Cable (EU)	Cable (US)	Pin	International
Brown	Black	Live	L
Light blue	White	Neutral	N
Yellow/Green	Green	Earth	

### 5.2 Placing the LightDome on a plain surface

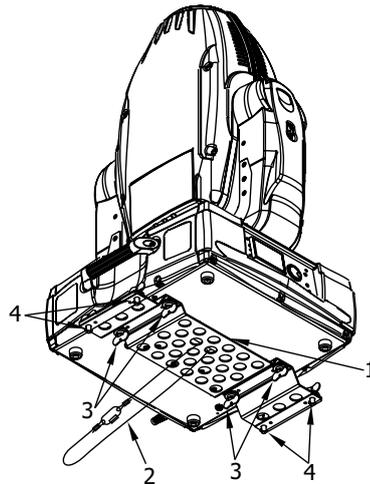
1. Set fixture's parameters (DMX address, operating mode, e.t.c. and activate function "Lamp Off via DMX").
2. Place the LightDome on a plain surface that will support more than weight of the LightDome and the fixture.

If the surface is above floor height, thread the safety cable (11) through the safety loop on the bottom side of

the base and fasten to the surface.

3.Thread the safety cable (2) through the two apertures in the fixture base and through the safety loop on the top side of the LightDome base.

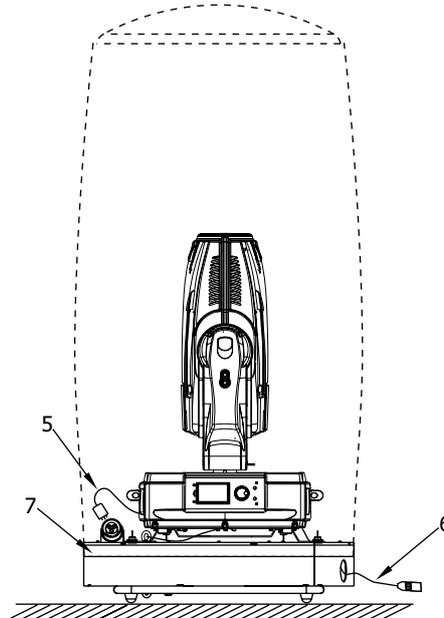
4.Fasten the mounting plate (1) on the bottom side of the fixture base using four quick-lock fasteners (3).



5.Put the fixture with the fixed mounting plate on the base of the LightDome in the right position and fasten it using four quick-lock fasteners (4).

6.Set the power switch of the fixture to the ON position,fixture power is disabled until the LightDome is fully inflated.Connect the fixture power cord (5) to the outlet of the LightDome base.

7.Lead the data cables (6) through an air vent and connect them to the fixture.



8.Choicely unfold the new plastic dome before fitting on the base.Bend down the seal belt (7) around the base and fasten the plastic dome over the base by means of the Velcro fastener.

9.Bend the rubber belt (7) back to cover the Velcro fastener.

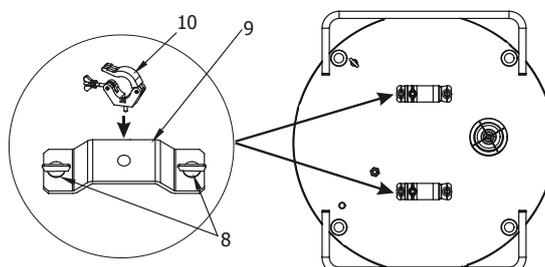
### 5.3 Truss mounting

If you mounting the LighDome on a truss or another type of support,verify that the truss or support will handle the combined weight of LightDome and its fixture.

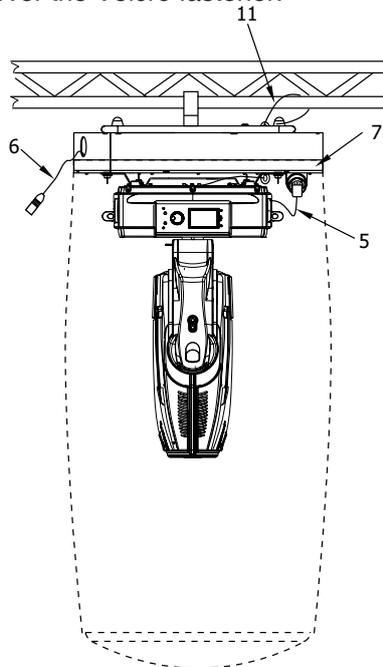
1.Set fixture's parameters (DMX address,operating mode,e.t.c. and activate function "Lamp Off via DMX").

2.Bolt clamps (10) to the two omega holders (9) with M12 bolts and lock nuts.

3.Attach the omega holders to the base of the LightDome using the quick-lock fasteners (8)

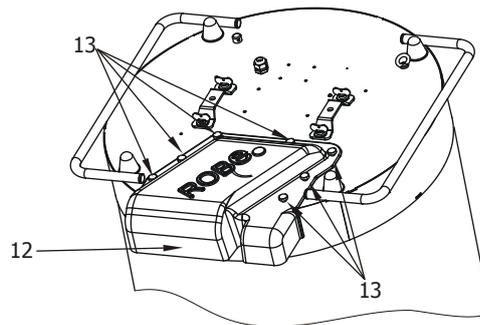


4. Mount the LightDome with clamps on a truss system
5. Thread the safety cable (11) through the safety loop on the bottom side of the base and fasten to the truss.
6. Fasten the fixture holder (1) on the bottom side of the fixture base using four quick-lock fasteners (3). Thread the safety cable (2) through the two apertures in the fixture base.
7. Place the fixture with the fixed holder on the base of the LightDome in the right position and fasten it using four quick-lock fasteners (4). Thread the safety cable (2) through the safety loop on the top side of the LightDome base.
8. Set the power switch of the fixture to the ON position, fixture power is disabled until the LightDome is fully inflated. Connect the fixture power cord (5) to the outlet of the LightDome base.
9. Lead the data cables (6) through an air vent and connect them to the fixture.
10. Carefully unfold the new plastic dome before fitting on the base. Bend down the seal belt (7) around the base and fasten the plastic dome over the base by means of the Velcro fastener.
11. Bend the rubber belt (7) back to cover the Velcro fastener.



### Water-protection during upside-down operation

For upside-down mounting it is necessary to install the rain-protective cover (12) on the base of the LightDome. Place this cover over the inflow and outflow aperture and fix it with the 7 screws (13).



### 5.4 Inflating the LightDome

Apply power to the LightDome and the dome automatically inflates when power is applied. Power to the fixture is switched on when the LightDome is fully inflated.

Pressure-activated switch automatically switches off power to the luminaire in the event of deflation.

### 5.5 Deflating the LightDome

1. Switch OFF the lamp by sending a lamp-off command from the DMX controller.

2. Allow **the fixture to cool for at least 10 minutes** before disconnecting the LightDome power!

If the fixture lamp is on (at least 9 minutes) and power cut occurs, the back-UPS (accumulator) will hold the dome inflated 8 minutes. It is a partial protection against falling-down the plastic dome on the hot fixture.

Note:

There is one way how to interrupt the running back-up process before than the back-up period elapsing - to take the plastic dome off.

To ensure the correct back-up of the LightDome fan, you have to keep the follow rules:

1. Do not change the fixture if the LightDome is connected to the mains.
  2. Switch off the fixture lamp at least 5 minutes before disconnecting the LightDome from the mains.
  3. If the LightDome is inflated, switch on the lamp for at least 2 minutes.
  4. Only use fixtures which have difference between power consumption with lamp on and off at least 30%.
- If you do not keep the rules, the operating life of the accumulator will be reducing. The accumulator needs 5 operating hours for recharge after one 8 minutes back-up. The totally exhausted accumulator needs 15 operating hours for full recharge.

Note: If the LightDome is operated at 90-125 voltage range and the accumulator is exhausted, an inflation of dome may start a minute after connecting power.

## 6. Cleaning and maintenance

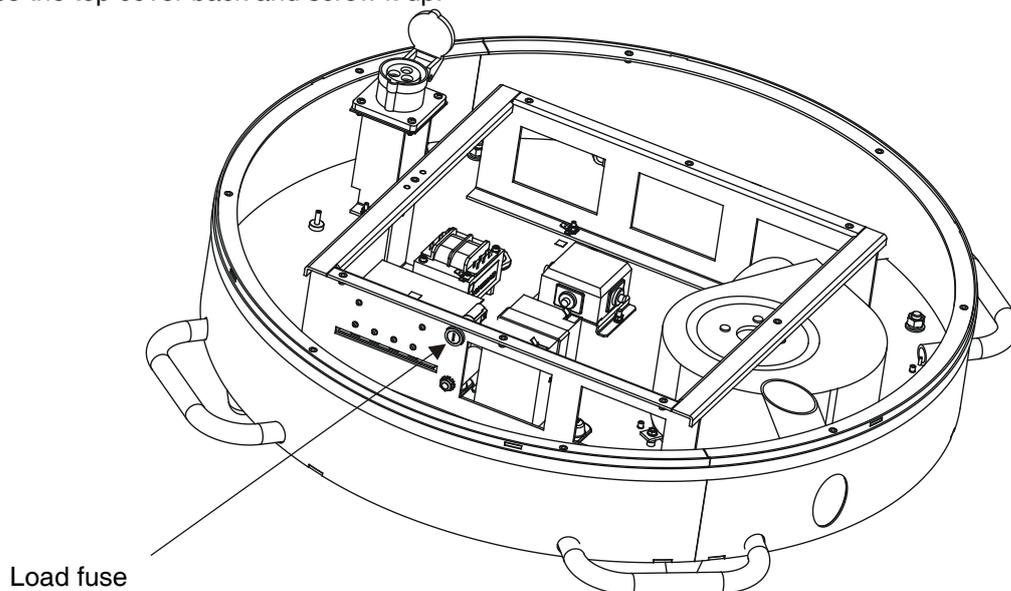
A soft lint-free damp cloth and soapy water is recommended for cleaning the plastic dome, under no circumstances should solvents be used.

Maintenance and service operations (including replacing the load fuse) of the LightDome's base have to be carried out by authorized distributors or skilled persons.

### Replacing the load fuse

Before replacing the load fuse ( which protects installed moving head), 1) unplug mains lead!

- 1) Uncover the top cover of the base by unscrewing the 8 fastening screws (the operation should execute 2 workers, the first is holding top cover and the second is changing the load fuse).
- 2) Unscrew the fuseholder in the base by a flat-tip screwdriver (anticlockwise).
- 3) Remove the old fuse from the fuseholder.
- 4) Install the new fuse in the fuseholder. Only replace the fuse by a fuse of the same type and rating.
6. Replace the fuseholder in the housing and screw it fully clockwise.
6. Place the top cover back and screw it up.



### Changing the accumulator

If you need to change the accumulator, proceed in the following way:

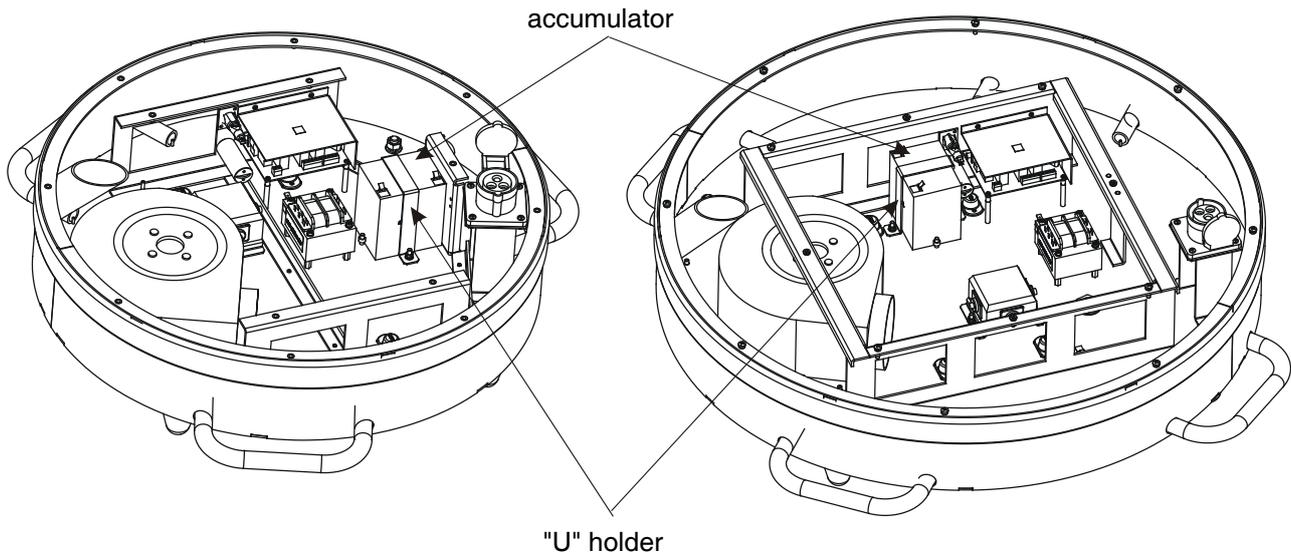
- 1) Unplug mains lead (remove both the plastic dome and the fixture if it is installed)
- 2) Uncover the top cover of the base by unscrewing the 8 fastening screws (the operation should execute 2 workers, the first is holding top cover and the second is changing the accumulator).
- 3) Disconnect the red wire from the positive terminal of the accumulator (red marked) and insulate this positive terminal (e.g. by using insulating tape).
- 4) Disconnect the blue wire from the negative terminal of the accumulator (black marked), and insulate this terminal.
- 5) Unscrew the "U" holder which holds the accumulator and remove accumulator from the base.
- 6) Insulate the terminals of the new accumulator - use only the lead accumulator of the type: CT5-12L.
- 7) Put the accumulator to the base and tighten the "U" holder with the 2 screws to the base.
- 8) Strip off the negative terminal of the accumulator and connect it with the blue wire.
- 9) Strip off the positive terminal of the accumulator and connect it with the red wire.
- 10) Place the top cover back and screw it up.

**Note:** The scrapped accumulator falls into hazardous wastes and on this account the treating with it has to be according to the relevant national directives.

Location of the accumulator in the LightDome's base:

LightDome 575

LightDome 1200



## 7. Technical Specifications

### Power supply:

90-125V/47-63Hz or 180-250V/47-63 Hz

### Power consumption:

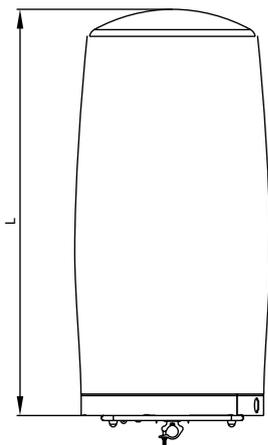
125 VA

### Fuse for load:

16 A

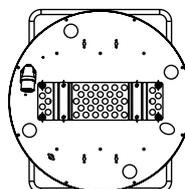
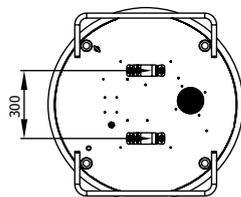
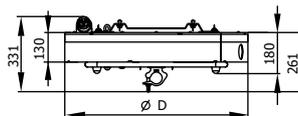
### Dimensions and weight:

	LightDome 575	LightDome 1200
Base diameter	630 mm	800 mm
Base height	130 mm	130 mm
Dome height	1290 mm	1690 mm
Total height	1380 mm	1796 mm
Total weight	17.5 kg	20 kg



LightDome 575  
L=1380 mm  
D=630 mm

LightDome 1200  
L=1796 mm  
D=800 mm



**Construction:**

Base: 3 mm aluminium

Base finish: black

Dome: transparent non-flammable PVC-P film,thickness 0.2 mm

Protection factor:IP 43 (with PVC dome)

IP 20 (without PVC dome)

Type of accumulator: CT5-12L

**Environmental:**

Maximum ambient temperature:30°C

Maximum wind speed:17m/s

**Accessories:**

Mounting bracket Omega CL assembled (No. 99010420).....2 pieces

LightDome 575:

Mounting plate (No. 99011434).....1 piece (for moving heads of 250 AT and 575 ATseries]

Plastic dome (No.10980025).....1 piece

Rain-protective cover for LightDome 575 (No.99011437).....1piece

LightDome 1200:

Mounting plate (No. 99011387).....1 piece (for moving heads of 700/1200 AT series]

Plastic dome (No.10980024).....1 piece

Rain-protective cover for LightDome 1200 (No.99011436).....1piece

***Specifications are subject to change without notice.***