



PROFESSIONAL SHOW LIGHTING

ATLAS

HMI 575

INSTRUCTION MANUAL

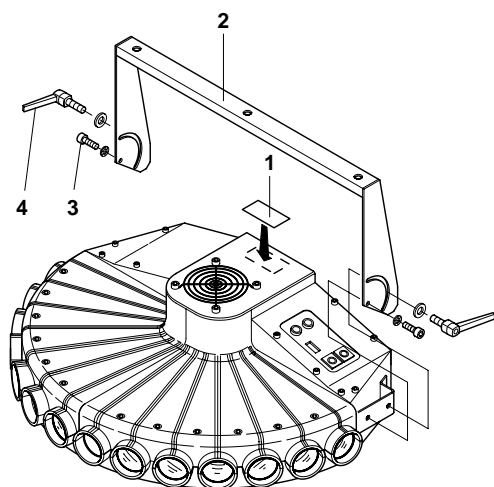
IMPORTANT: Carefully read all parts of the instruction manual. Knowledge of the information and prescriptions contained in this document is essential for correct, safe use of the appliance.

1 PROJECTOR INSTALLATION

• Unpacking

Open the cardboard box, remove the projector from the packing and position it on a horizontal support surface. Remove the components contained in the bags inside the packing. Identify the light bulb change label (1) on the appliance and, if necessary, replace it with one of the optional multi-language labels.

Ensure that this label is never removed since it contains important safety information.



• Projector support preparation

Fix bracket (2) with the special screws (3) and lock it by tightening handles (4).

• Fitting the light bulb

Refer to the instructions for changing the light bulb in paragraph 5 MAINTENANCE.

• Projector installation

The projector can be fixed in any position, with its operating characteristics remaining unchanged.

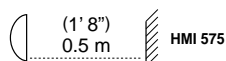
IMPORTANT: Fix the projector in the required position using the special holes in bracket (2).

The use of two 12 mm \varnothing screws complete with nuts and spring washers is recommended.

Ensure the stability of the fixing point before positioning the projector.

• Minimum distance of the lighted objects

The projector must be positioned so that the objects struck by the light beam are at a distance of at least 0.5 m (1' 8") from the lens of the projector itself.



• Minimum prescribed distance of flammable materials from every point of the body of the appliance: 0.07 m (3").

F Assembly of the appliance on normally flammable surfaces is permissible.

IMPORTANT: For better and more reliable operation of the appliance, the ambient temperature must not exceed 35° C (95° F). Protection level IP 20: the appliance is protected against penetration of solid bodies with a diameter of more than 12 mm (0.5") (first figure 2), while it is not proof against drips, rain, sprays and jets of water (second figure 0).

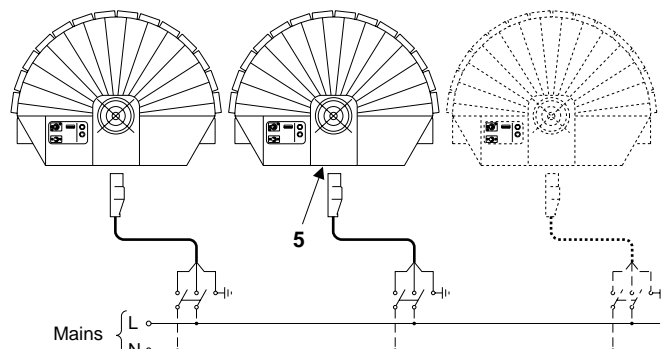
2

POWER SUPPLY AND SET-UP

• Mains power connection

The operations described in this heading must be carried out by a licensed electrician.

The projector must be connected to the electricity mains network using the special socket provided. It is recommended that each projector is connected through its own switch, so that it can be individually switched on and off remotely.



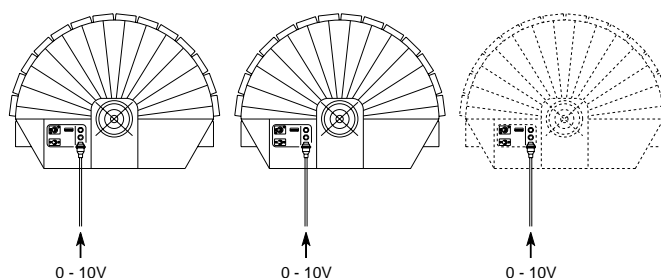
The projector is set up to operate at the power supply voltage and frequency shown on the electrical data label (5) on the back of the projector itself. Ensure that these values correspond to the electricity mains network voltage and frequency.

IMPORTANT: connection to a power supply system with efficient grounding is mandatory (Class I appliance).

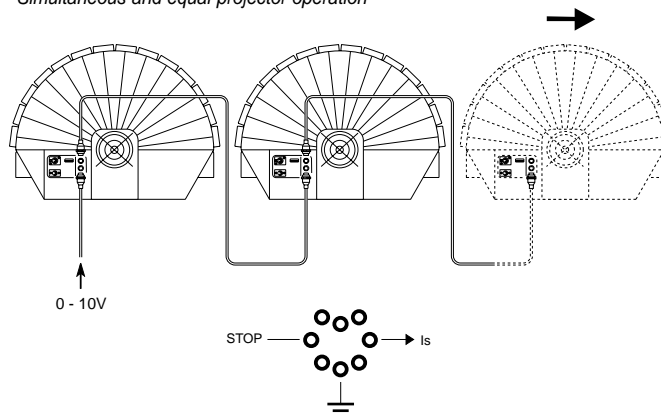
• Control signal connection

0-10V CONNECTION

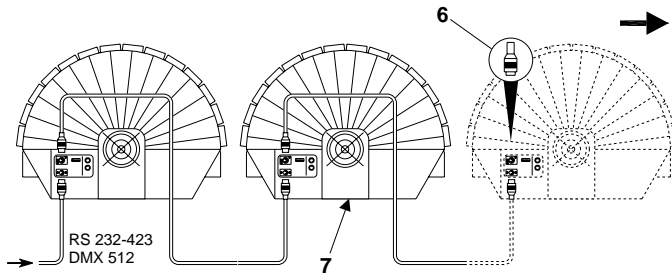
- Independent projector operation



- Simultaneous and equal projector operation



The connection between projector and control unit and between several projectors must be made with a shielded two-pole cable with Cannon 5 PIN XLR plug and socket at the ends.



The connection between projector and control unit and between several projectors must be made with a shielded two-pole cable with Cannon 5 PIN XLR plug and socket at the ends.

For DMX connection the terminal pin (6) with a resistance of 100 Ω between terminals 2 and 3 on the last projector. The terminal is not needed if an RS232/423(PMX) signal is used.

It is essential that the wires do not come into contact with each other or with the metal casing of the pin.

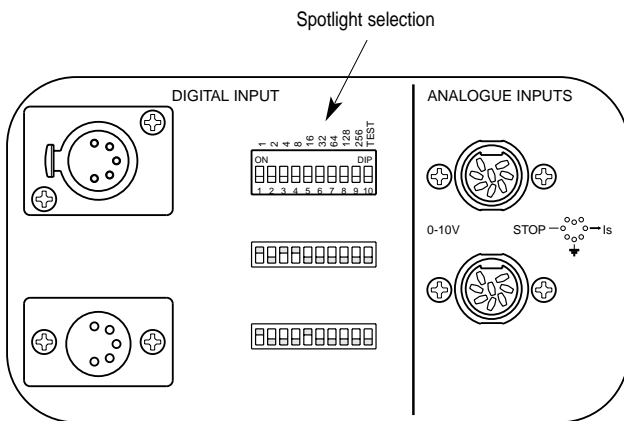
The casing of the plug/socket must be connected to the screen braid and to foot 1 of the connectors.



After having performed all the operations described above, press switch (7) and check that the light bulb switches on and that the automatic reset sequence starts.

• Projector coding (for digital signals)

Each ATLAS occupies one control channel. For this to be correctly addressed to each projector, a coding operation must be performed for the projectors themselves. The operation must be performed for each single ATLAS by setting the microswitches according to the table below.



CODE	1	2	4	8	16	32	64	128	256	TEST
Projector 1 - Channels 1	ON OFF	▲ ▼	▼ ▼	▼ ▼	▼ ▼	▼ ▼	▼ ▼	▼ ▼	▼ ▼	▼ ▼
Projector 2 - Channels 2	ON OFF	▼ ▼	▲ ▼	▼ ▼	▼ ▼	▼ ▼	▼ ▼	▼ ▼	▼ ▼	▼ ▼
Projector 3 - Channels 3	ON OFF	▲ ▼	▲ ▼	▼ ▼	▼ ▼	▼ ▼	▼ ▼	▼ ▼	▼ ▼	▼ ▼
Projector 4 - Channels 4	ON OFF	▼ ▼	▼ ▼	▲ ▼	▼ ▼	▼ ▼	▼ ▼	▼ ▼	▼ ▼	▼ ▼
Projector 5 - Channels 5	ON OFF	▲ ▼	▼ ▼	▲ ▼	▼ ▼	▼ ▼	▼ ▼	▼ ▼	▼ ▼	▼ ▼
Projector 6 - Channels 6	ON OFF	▼ ▼	▲ ▼	▲ ▼	▼ ▼	▼ ▼	▼ ▼	▼ ▼	▼ ▼	▼ ▼
Projector 7 - Channels 7	ON OFF	▲ ▼	▲ ▼	▲ ▼	▼ ▼	▼ ▼	▼ ▼	▼ ▼	▼ ▼	▼ ▼
Projector 8 - Channels 8	ON OFF	▼ ▼	▼ ▼	▼ ▼	▲ ▼	▼ ▼	▼ ▼	▼ ▼	▼ ▼	▼ ▼
Projector 9 - Channels 9	ON OFF	▲ ▼	▼ ▼	▼ ▼	▲ ▼	▼ ▼	▼ ▼	▼ ▼	▼ ▼	▼ ▼
Projector 10 - Channels 10	ON OFF	▼ ▼	▲ ▼	▲ ▼	▼ ▼	▼ ▼	▼ ▼	▼ ▼	▼ ▼	▼ ▼
	ON OFF	▼ ▼	▼ ▼	▼ ▼	▼ ▼	▼ ▼	▼ ▼	▼ ▼	▼ ▼	▼ ▼

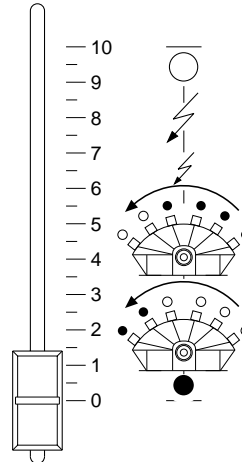
Setting the TEST switch to ON for a few seconds gives automatic reset with the projector switched on. Leaving the TEST switch ON gives the complete self-test; return the switch to OFF at the end of the operation.

3

CHANNEL FUNCTION

• STOP/STROBE - channel 1

CHANNEL	FUNCTION
1	STOP/STROBE

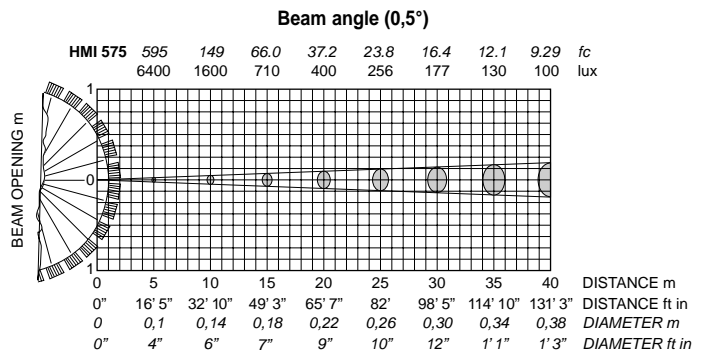


With the cursor at 0% all bands are obscured. In the cursor interval between 0% and 25% the bands are progressively opened from right to left, creating a fan effect. From 25% to 54.7% the bands are progressively obscured from right to left. From 54.7% to 95% a strobe effect is obtained with an increasing frequency from 1 flash every four seconds to 2 flashes/second. The aperture is fixed from 95% to 100%.

4

LENS

LIGHT BAND AND LIGHTING VALUE DIAGRAMS



5

MAINTENANCE

IMPORTANT: the projector must be disconnected from the power supply before any operation is started.

The maximum temperature of the appliance's outer surface in heat regime conditions is 80° C (176° F). After switching off, do not remove any part of the appliance for 7 minutes, as shown in light bulb changing label (1).

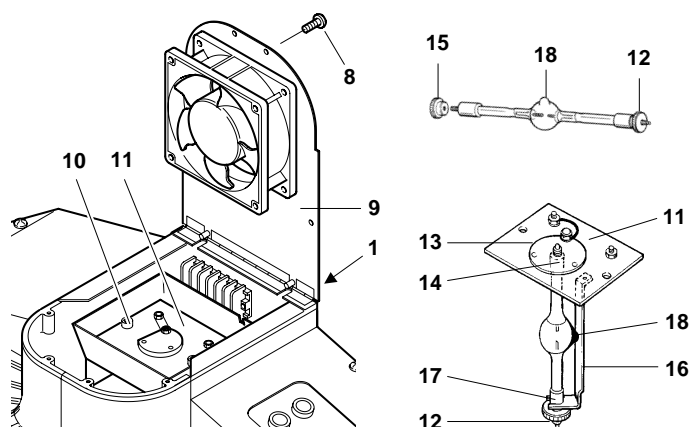
After this time the probability of the bulb exploding is virtually nil.

If necessary, replace the bulb and wait a further 15 minutes to prevent burns. The appliance is designed to retain splinters produced by a possible explosion of the bulb. It is mandatory to fit the lenses and moreover, if they show visible signs of damage they must be replaced with original spare parts.

• Light bulb changing

Remove screws (8) and open fan hatch (9).

Unscrew knobs (10) of light bulb change plate (11) and remove it from the projector. Slacken off ring-nut (12) of the light bulb to be replaced and remove it from plate (13), grasping it by its mount (14). Extract the new bulb from its pack, remove ring-nut (15) and slacken of the other one (12). Screw the light bulb directly into bulb change plate (13), grasping it by its mount (14). Position strip (16) in correspondence with mount (17) and fully tighten ring-nut (12). Replace light bulb change plate (11) in the projector and tighten knobs (10). Close fan hatch (9) and fully tighten screws (8).



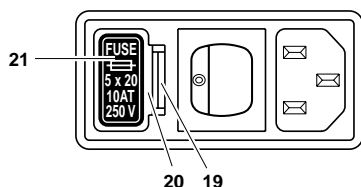
IMPORTANT: to ensure maximum uniformity of the light beams, the light bulb must be located with protuberance (18), visible on the bulb, pointing towards the rear of the projector.

CAUTION: The appliance is fitted with a high pressure light bulb with an external starter.

- Carefully read the "User Instructions" provided by the light bulb's manufacturer.
- Replace the light bulb immediately if it is damaged or warped by heat.

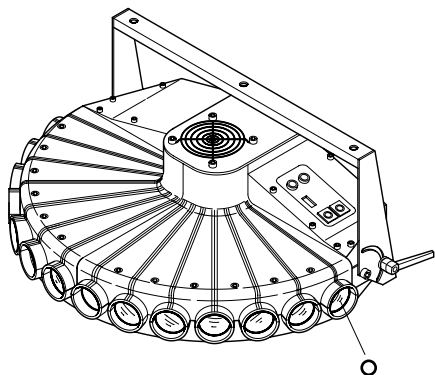
• Fuse replacement

To replace the fuses, press tongue (19) and remove fuse box (20). Replace the blown fuses with new ones of the type shown on label (21) located on fuse box (20). Return this by pushing it in until tongue (19) clicks.



• Periodic maintenance

Periodic cleaning of the parts subject to dust and grease deposits is indispensable for keeping the projector's light yield unchanged. Perfect operation can be ensured for a long time by following the directions given below. Use a soft cloth dampened with a liquid detergent for cleaning glass to remove dirt from the lenses and filters.



IMPORTANT: do not use solvents or alcohol.

○ Parts that need frequent cleaning.

An annual general cleaning of the inside is also recommended, removing the dust with a brush and sucking it out with a normal vacuum cleaner.

6 TROUBLESHOOTING

THE PROJECTOR WILL NOT START UP				FAULTS	
THE ELECTRONICS ARE INOPERABLE					
DEFECTIVE PROJECTION					
REDUCED LIGHTING					
				<i>POSSIBLE REASONS</i>	<i>CHECKS & REMEDIES</i>
●			No mains power supply.	Check that power is reaching the supply socket and/or that the fuses are not blown.	
●		●	Light bulb blown or defective.	Replace the bulb (see instructions).	
●			Signal transmission cable short-circuited or disconnected.	Replace the cables.	
●			Incorrect coding.	Check the coding (see instructions).	
●			Fault in the electronic circuits.	Contact an authorised technician.	
	●		Broken lenses.	Contact an authorised technician.	

7

TECHNICAL DATA

ELECTRICAL & MECHANICAL DETAILS

Power supplies available

- 220 - 240V 50Hz
- 200 - 220V 60Hz
- 200V 50Hz
- 200V 60Hz
- 260V 50Hz

The projector is designed to operate at the mains frequency and voltage given on the electrical data label on the base of the appliance.

Light bulb

Metal iodides fed by a special incorporated power supply unit.

- Type HMI 575W
 - Cap SFC 10-4
 - Colour temperature 5600 K
 - Light flux 49000 lm
 - Average life 750 h

Power absorbed

1500 VA at 220V 50Hz

Motors

N. 1 step-by-step motor, operating in microsteps and totally controlled by a microprocessor.

COMMAND SYSTEMS

Channels

N. 1 control channel

Inputs

ATLAS is designed to analogue or digital control signals transmitted from control units or computers.

- Serial digital input
RS232/423(PMX) or DMX 512
- Analogue input 0 - 10V

CONSTRUCTIONAL DETAILS

Devices

- Automatic power supply cut-off in the case of overheating or a cooling system breakdown.
- Automatic power supply cut-off when the cover is opened.

Cooling

Forced ventilation cooling system using axial fans.

Body

- Of diecast extruded aluminium
- Painted with epoxy powders

Stand

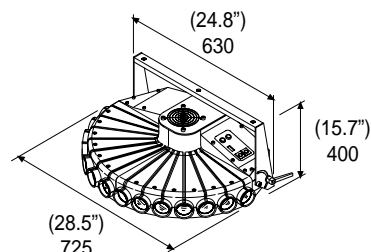
Made of steel painted with epoxy powders

Work position

It will operate in any position.

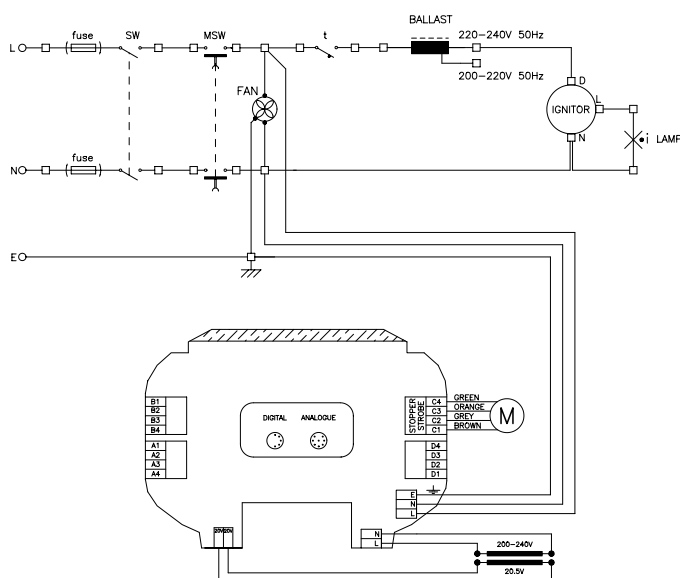
Weights and size

Weight: 27 kg (59 lbs 6 ozs)



8

WIRING DIAGRAM



With the desire to constantly improve the quality of its products, Clay Paky reserves the right to change the specifications mentioned in this document without prior notice. Thus they should not be taken as binding.



The products to which this manual refer comply with the following European Union Directives:

- Low Voltage 73/23
- Electromagnetic Compatibility 89/836