

coemmar



Fiera
575 EB
...electronicballast+pfc

manuale
di istruzioni
instructions
manual

1^a edizione, ottobre 2003
1st edition, october 2003

Fiera 575 EB

numero di serie/serial number _____

data di acquisto/date of purchase _____

fornitore/retailer _____

indirizzo/address _____

cap/città/suburb _____

provincia/capital city _____

stato/state _____

tel./fax/ _____

*Prendete nota, nello spazio apposito, dei dati relativi al modello e al rivenditore del vostro **Fiera 575 EB**: in caso di richiesta di informazioni, pezzi di ricambio, servizi di riparazione o altro ci permetteranno di assistervi con la massima rapidità e precisione.*

*Please note in the space provided above the relative service information of the model and the retailer from whom you purchased your **Fiera 575 EB**: This information will assist us in providing spare parts, repairs or in answering any technical enquiries with the utmost speed and accuracy.*

ATTENZIONE: la sicurezza dell'apparecchio è garantita solo con l'uso appropriato delle presenti istruzioni, pertanto è necessario conservarle.

WARNING: the security of the fixture is granted only if these instructions are strictly followed; therefore it is absolutely necessary to keep this manual.

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Congratulations on having purchased a **coemar** product. You are assured of a projector of the highest quality, both in the componentry used and in the technology. We reiterate our invitation for you to complete the information on the previous page to expedite any request for service information or spares (in case of problems encountered either during, or subsequent to, installation). This information will assist in providing prompt and accurate advice from your **coemar** service centre.

1. Packaging

Following the instructions and procedures outlined in this manual will ensure the maximum efficiency of this product for years to come.

Open the packaging and ensure that no part of the equipment has suffered damage in transit. In case of damage to the equipment, contact your carrier immediately by telephone or fax, following this with formal notification in writing.

packing list

Ensure the packaging contains:

- 1 **Fiera 575 EB**
- 1 instruction manual
- 2 U-shaped cam-locking suspension devices
- 2 additional lenses
- 1 envelope containing 2 fuses suitable for respective voltages.

2. Transportation

The **Fiera 575 EB** should be transported in its original packaging or in a **coemar** approved flight case. During transportation, the packaging should ensure that the articulated movement of the **Fiera 575 EB** should be blocked.

3. Important safety information

Fire prevention:

1. **Fiera 575 EB** utilises a Philips 575 MSD, 575 MSR or 575 MSR/2 lamp; the use of any other lamp is not recommended and will null and void the fixture's warranty.
2. Never locate the fixture on any flammable surface.
3. The minimum distance from any flammable materials: 0,5 m.
4. The minimum distance from the closest illuminable surface: 2 m.
5. Replace any blown or damaged fuses only with those of an identical value. Refer to the schematic diagram if there is any doubt.
6. Connect the projector to the mains power via a thermal-magnetic circuit breaker.

Preventing electric shock:

1. High voltage is present in the internals of the unit. Isolate the projector from mains supply prior to performing any function which involves touching the internals of the unit, including lamp replacement.
2. For mains connection, adhere strictly to the guidelines outlined in section 7 of this manual.
3. The level of technology inherent in the **Fiera 575 EB** necessitates the use of specialist personnel for all service applications; refer all work to your authorised **coemar** service centre.
4. A good earth connection is essential for proper functioning of the projector. Never operate the unit without proper earth connection.
5. Do not locate the fixture in an exposed position, or in areas of extreme humidity. A steady supply of circulating air is essential.

Protection against ultraviolet radiation:

1. Never turn on the lamp if any of the lenses, filters, or the housing is damaged; their respective functions will only operate efficiently if they are in perfect working order.
Never look directly into the lamp when it is operating.

Safety:

1. The projector should always be installed with bolts, clamps, and other fixings which are suitably rated to support the weight of the unit.
2. Always use a secondary safety chain of a suitable rating to sustain the weight of the unit in case of the failure of the primary fixing point.
3. The external surfaces of the unit at various points may exceed 150°C. Never handle the unit until at least 10 minutes have elapsed since the lamp was turned off.
4. Always replace the lamp if any physical damage is evident.
5. Never install the fixture in an enclosed area lacking sufficient air flow; the ambient temperature should not exceed 35°C.
6. A hot lamp may explode. Always wait for at least 10 minutes to elapse after the unit has been turned off prior to attempting to replace the lamp.
Always wear suitable hand protection when handling lamps.

Protection rating against penetration by solids and liquids:

1. The projector is rated as an ordinary device. Its protection rating is IP 20

4. Lamp: installation and replacement

Fiera 575 EB utilises a Philips 575 MSD or Philips 575 MSR(/2) 575W lamp with a GX 9,5 lampbase. The lamp is available from your **coemar** service centre:

Philips 575 MSD	
coemar cod.	105215
power	575 w
luminous flux	43.000 lm
colour temperature	6000° K
base	GX 9,5
approximate lamp life	3000 hours

Philips 575 MSR/2	
coemar cod.	105245/2
power	575 w
luminous flux	49.000 lm
colour temperature	7.200° K
base	GX 9,5
approximate lamp life	1000 hours

Attention
Disconnect mains prior to opening up the unit.

The fixture's internal temperature can reach 250° C after 5 minutes with a maximum peak of 350° C; ensure that the lamp is cold prior to attempting removal. The fixture should be allowed to stand and cool for 10 minutes prior to its removal. Both MSR and MSD lamps are part of the mercury vapour family of discharge lamps and must be handled with great care. The lamps operate at high pressure, and the slight risk of explosion exists if operated over their recommended lamp life. We recommend, therefore, that the lamp be replaced within the manufacturer's specified lamp life.

installing the lamp

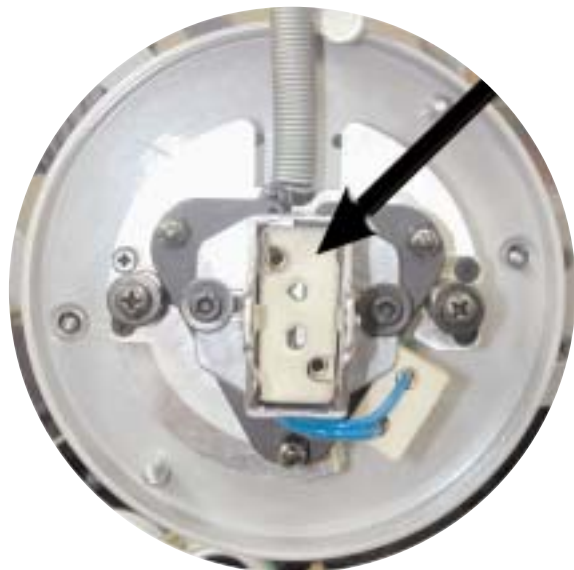
1) Using a Philips head screwdriver, loosen the 2 screws which affix the lamp assembly, located at the rear of the projector.



2) Remove the lamp assembly.

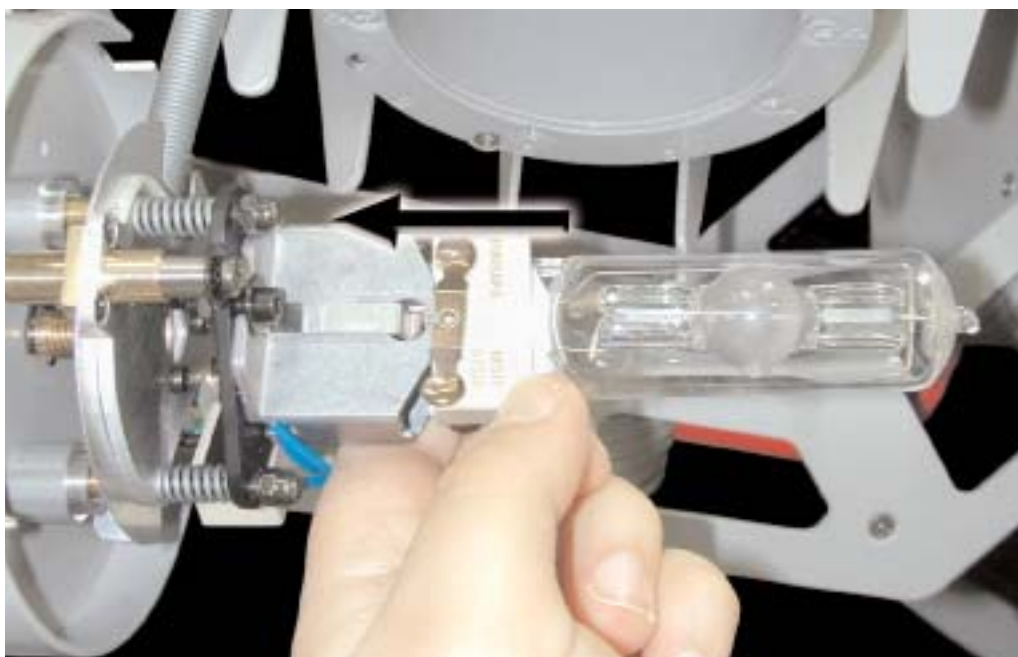


3) Locate the lampholder



4) Insert the lamp.

The lamp is manufactured from quartz glass and should be handled with care; always adhere to the instructions supplied in the lamp's packaging. Never touch the glass directly, use the tissue provided in the lamp's packaging. The GX 9,5 lampholder is symmetrical in construction. **DO NOT USE UNDUE FORCE.** In case of difficulty, inspect for physical damage and then repeat the installation procedure.



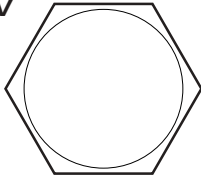
5) Replace the lamp assembly into its original position and refasten the 2 screws which were previously loosened.

Attention: we recommend that you realign the lamp in the optical system of the projector to optimise the output. refer to section 13 for a description of this procedure.

5. Operating voltage and frequency

The projector is able to operate at 100,115,200/208,230 or 240V; **coemar** preselects (barring specific requests), an operating voltage of 240 V. The operating voltage of the projector is noted on the base of the unit, as shown in the diagram.

Fiera 575 EB may operate at either 50 or 60 Hz without the need to adjust any settings.

<input type="checkbox"/> 100V	factory set main at:	
<input type="checkbox"/> 115V		
<input type="checkbox"/> 200/208V		
<input type="checkbox"/> 230V		
<input checked="" type="checkbox"/> 240V		
<input checked="" type="checkbox"/> 50Hz ~		
<input checked="" type="checkbox"/> 60Hz ~		

If this preset voltage does not correspond with the conditions in your particular country of operation, follow the instructions in the appropriate section of this manual, section **17. Altering the operating voltage.**

Incorrect frequency and voltage selection will detrimentally affect the operation of the projector and immediately void the warranty.

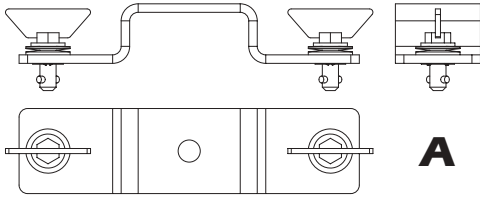
6. Mechanical installation

mounting

Fiera 575 EB may be suspended or floor mounted.

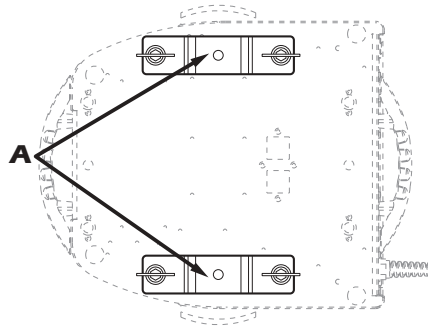
For the purposes of floor mounting, **Fiera 575 EB** is fitted with four pads on the base.

For suspending the fixture from lighting truss, **coemar** has included two cam-lock devices (**A**).

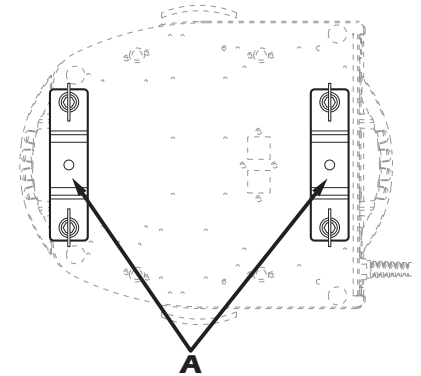


The two cam-lock devices may be installed in 2 diverse positions on the base of the **Fiera 575 EB**. These devices are 1/4 turn units. To install them, make sure that they are correctly seated into the appropriate slots in the base of the unit.

Posizione 1 / Position 1

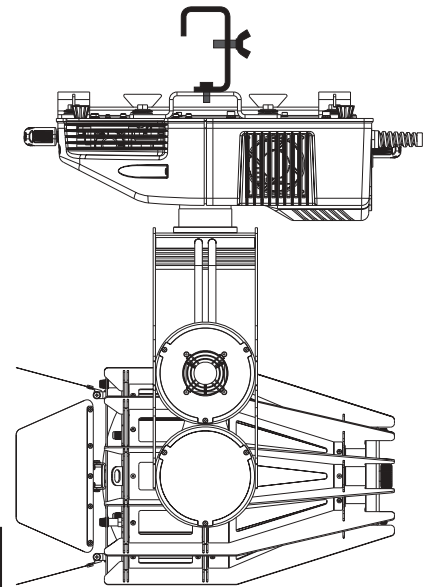


Posizione 2 / Position 2



If the fixture is to be suspended, we recommend the use of appropriate C clamps which are capable of comfortably sustaining the weight of the fixture.

The C-clamps are fitted to the central shaft of the cam-lock devices.



Attention

Always use 2 clamps to suspend the projector

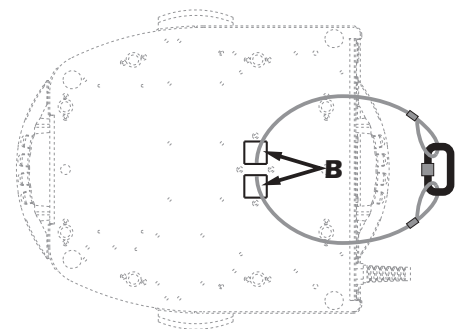
The structure from which the unit is hung should be of sufficient rating to hold the weight of the unit and should also be sufficiently rigid so as to not move or shake whilst the **Fiera 575 EB** moves during its operation.

safety chains

The use of a safety chain fixed to the unit and to the primary suspension structure is highly recommended to protect against the accidental failure, however unlikely, of the primary suspension points.

If using an after-market safety chain not manufactured by **coemar**, ensure that it is of a sufficient rating to hold the weight of the unit.

The safety chain is attached by means of the two holes **B** located in the base of the unit as shown in the diagram.



protection against liquids

The projector contains electric and electronic components that must not come into contact with water, oil, or any liquid.

movement

The projector has an articulated movement of 360° in the base and 210° through its yoke; **DO NOT** obstruct the articulated movement in any way.

risk of fire

Each fixture produces heat and must be installed in a well-ventilated position. The minimum recommended distance from flammable material is: 0.5m. Minimum distance from the object being illuminated is: 2m.

forced ventilation

You will note that the projector contains several cooling fans and vents located in the base and the yoke. Under no circumstances should these be obstructed.

Obstruction of any of these points will result in the over-heating of the unit, detrimentally and seriously affecting the proper operation of the fixture.

ambient temperature

Never install the projector in locations where there is insufficient flow of circulating air; the ambient temperature should not exceed 35°C.

7. Mains connection

preparing the cable

The mains cable provided is thermally resistant, having VDE approval and complying to the most recent international standards, namely IEC 331, IEC 332 3C, CEI 20 35.

NB: In case of cable replacement, similar cable with comparable thermal resistant qualities must be used exclusively (cable 3x1,5 ø external 10 mm, rated 300/500V, tested to 2KV, operating temperature -40° +180°, **coemar** cod. CV5309).

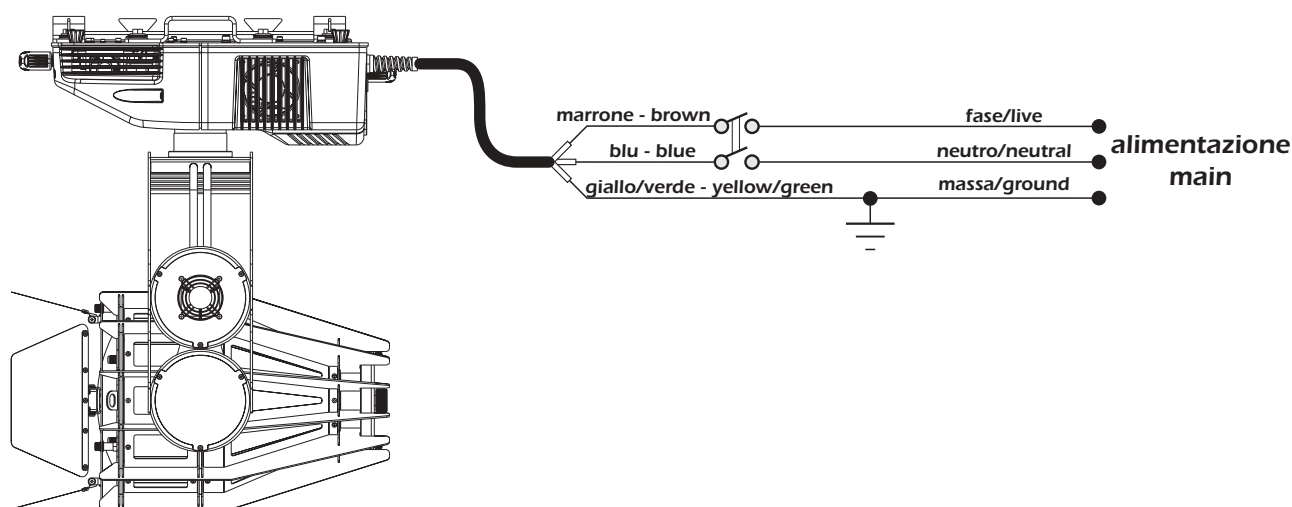
mains connection

Fiera 575 EB may operate at 100/115/200/208V-230V-240V at either 50 or 60Hz (operating voltage should be selected as discussed in section 5 of this manual).

Prior to connecting the unit to your mains supply, ensure that the model in your possession correctly matches the mains supply available to you.

For connection purposes, ensure that your plug is of a suitable rating: 5 amps at 200/240V or 10 amps at 100/115V.

Locate the mains cable which exits the base of the unit and connect as shown below:



protection

The use of a thermal magnetic circuit breaker is recommended for each **Fiera 575 EB**.

A good earth connection is essential for the correct operation of the fixture. Strict adherence to regulatory norms is strongly recommended.

8. Signal connection

Control signal is digital and is transmitted via two pair screened $\varnothing 0,5$ cable.

Connection is serial, utilising XLR 3 male and female sockets on the base of the **Fiera 575 EB**, labeled **DMX 512 In** and **OUT** (see diagram).

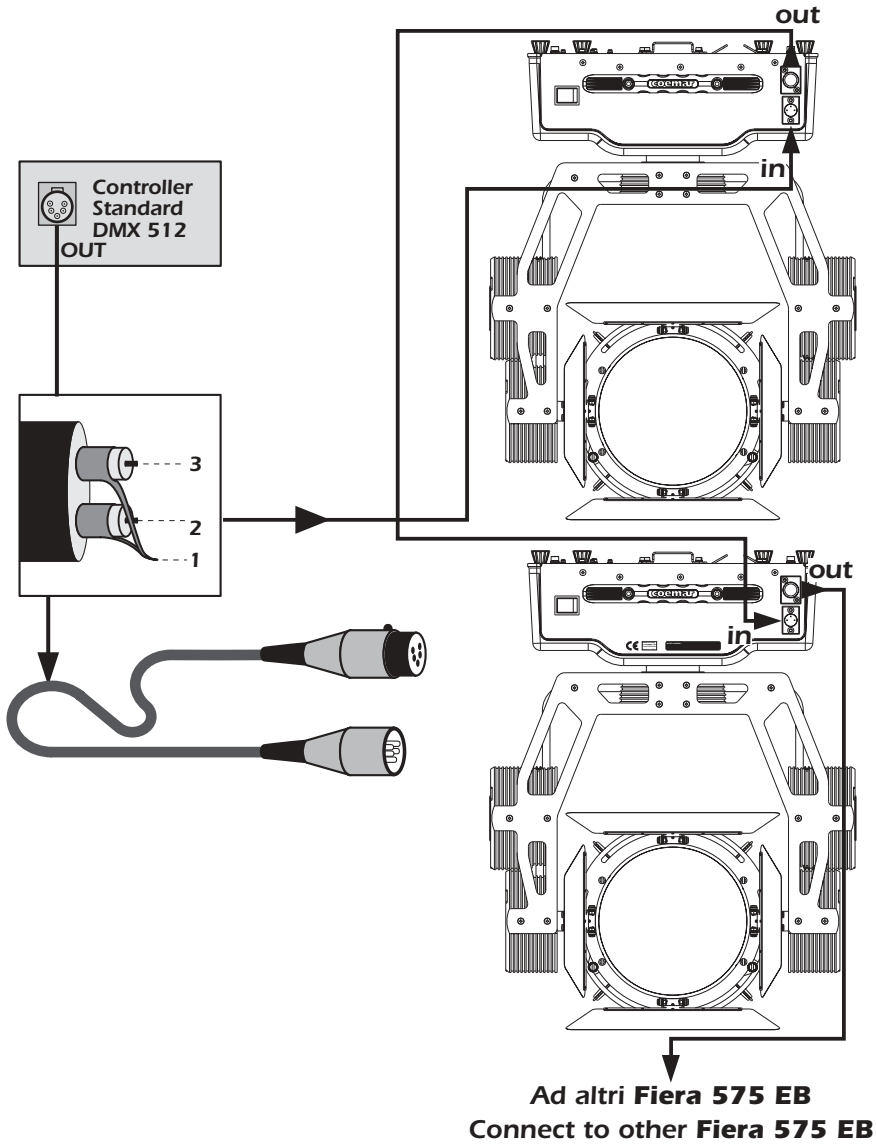
Pin connection conforms to international standards:

pin 1= screening 0 volt

pin 2= data -

pin 3= data +

Should your DMX 512 controller utilise only XLR 5 sockets, pins 4 and 5 should not be connected.



Ensure that all data conductors are isolated from one another and the metal housing of the connector.

Note: the housing of the cannon XLR 3 or 5 must be isolated.

9. Powering up

After having followed the preceding steps, turn on the projector via the **power** button. upon powering up, the projector will perform a reset on all its motor, allowing them to be correctly aligned.

Software version

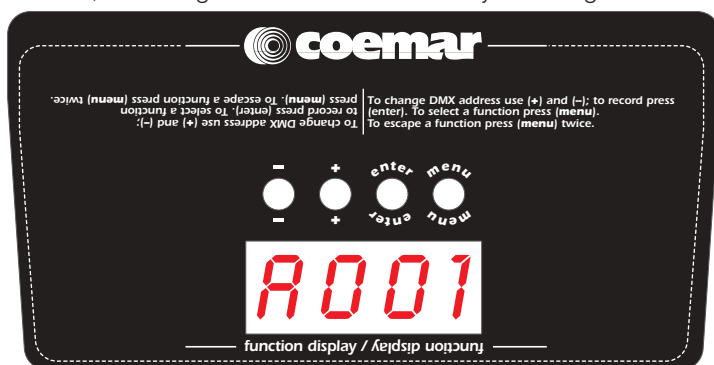
Three software systems are located within the projector, located in the display pcb “**D**” and the master pcbs “**A**” and “**B**”. Upon powering up, the display of the projector will for a few seconds show the software versions installed in the unit. For example, the **Fiera 575 EB** may show:

D1.30 (display software “**D**” version 1.30)

A3.15 (master software “**A**” version 3.15)

DMX reception

After having displayed the software versions, the projector will perform a reset and, following this, the display will stay on in a fixed mode, indicating that the fixture is correctly receiving **DMX 512** signal.



If the display flashed, the projector is not receiving signal. Check the operation of your controller and your cabling.

turning on the projector with no dmx signal present

After having displayed the software versions, the projector will perform a reset and, following this, the display will flash, indicating that the fixture is not receiving **DMX 512** signal.

10 DMX addressing

Each projector utilises **8** of **DMX 512** signal for complete control.(see section **12. DMX 512 signal functions** for more comprehensive information)

DMX addressing

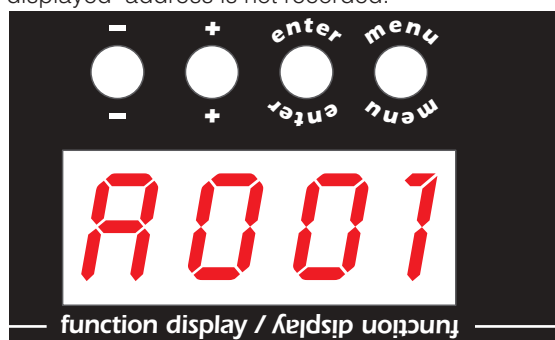
To ensure that each projector accesses the correct signal, it is necessary to correctly address each fixture. Any number between 1 and 505 can be generated via the multifunction panel of the **Fiera 575 EB**.

This procedure must be carried out on every **Fiera 575 EB**.

When initially powered up, each projector will show **A001** which indicates **DMX** address **1**; a projector thus addressed will respond to channels **1** through **8** of your **DMX 512** controller. A second projector should be addressed as **9**, a third as **17** and so on until the final **Fiera 575 EB**, in relation to the number of channels addressable by your controller.

altering the dmx address

1) Press the **+** or **-** until the required **DMX** address is located. The display panel will flash, indicating that the currently displayed address is not recorded.



2) Press the **enter** button to confirm your selection; the display panel will stop flashing and the fixture will now respond to the newly assigned **DMX 512** address.

3) To gain an understanding of the functions of each channel of **DMX 512**, we recommend that you read section **12. DMX 512 operation**

Important Note: holding down the **+** or **-** buttons will cause the display to scroll quickly through the channel numbers at an increased speed, allowing a faster selection to be effected.

11. Display panel functions

By using the display panel located on the **Fiera 575 EB** you are able to display and set function information and to alter various configuration parameters.

Incorrectly altering the **coemar** factory settings may vary the functioning of the projector, causing it to not respond to external **DMX 512** control signal; please read and familiarise yourself with the following information very carefully prior to altering any selections.

NOTE: the  symbol is used in the following table to indicated the action of pressing the appropriately labeled button.

11.1. Function settings (FUNC)

The projector is able to have several function settings altered in order to personalise its use to your requirements.

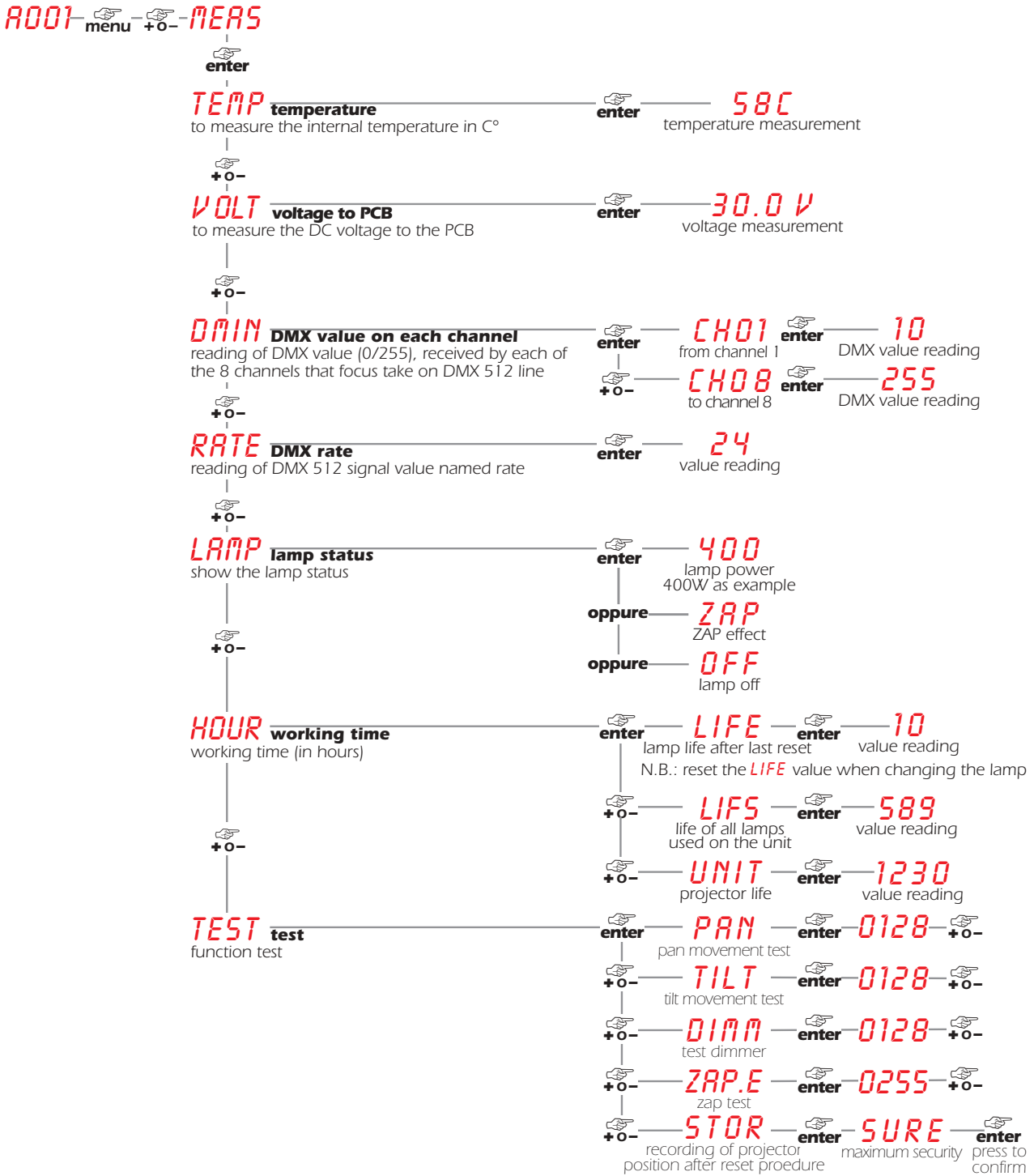
0001



FUNC functions menu The unit gives the possibility to vary some functional settings and to apply personalizations.	enter	POIR pan movement inversion To reverse horizontal movement direction of the beam on DMX level variation	enter	+0-	CW clockwise	enter
				+0-	CCW counter-clockwise	enter
	+0-	TDIR tilt movement inversion To reverse vertical movement direction of the beam on DMX level variation	enter	+0-	CW clockwise	enter
				+0-	CCW counter-clockwise	enter
	+0-	OPTO automatic repositioning To deactivate the optic sensor function with return in position of the unit if accidentally knocked out of place (opto OFF)	enter	+0-	ON sensors activation	enter
				+0-	OFF sensors deactivation	enter
	+0-	LAMP lamp control Lamp on/off via DMX signal or lamp always on.	enter	+0-	STRD lamp control via DMX 512	enter
				+0-	ON lamp always on	enter
	+0-	FANS fans control Fans speed control through PCB depending on ambience temperature (Std), or fans always on (on).	enter	+0-	STRD variable fan speed	enter
				+0-	ON fans always on	enter
	+0-	DISP reverse display To reverse display reading depending on mounting position (base or suspended)	enter	+0-	AA base downwards	enter
				+0-	BB reversed, base upwards	enter
	+0-	LED display control To disable display visualisation	enter	+0-	OFF to switch the display off (to switch it on any key)	enter
	+0-	RESE reset reset of all motors	enter	+0-	--- reset activation	enter
	+0-	DFSE default functions setting to set all the functions at the original values, but for the alignment operations and for the recorded programs	enter		SURE flashing	enter
	+0-	ZAP.E effetto zap zap effect	enter	+0-	ON zap on	enter
				+0-	OFF zap off	enter
	+0-	DEMO demo program demonstration of all the functions of the unit	enter		--- program activation	
	+0-	ID ID number setting To set the ID number of the unit, it allows the remote dialog with DR1 on dmx 512 line	enter		1--250 numeric value	enter

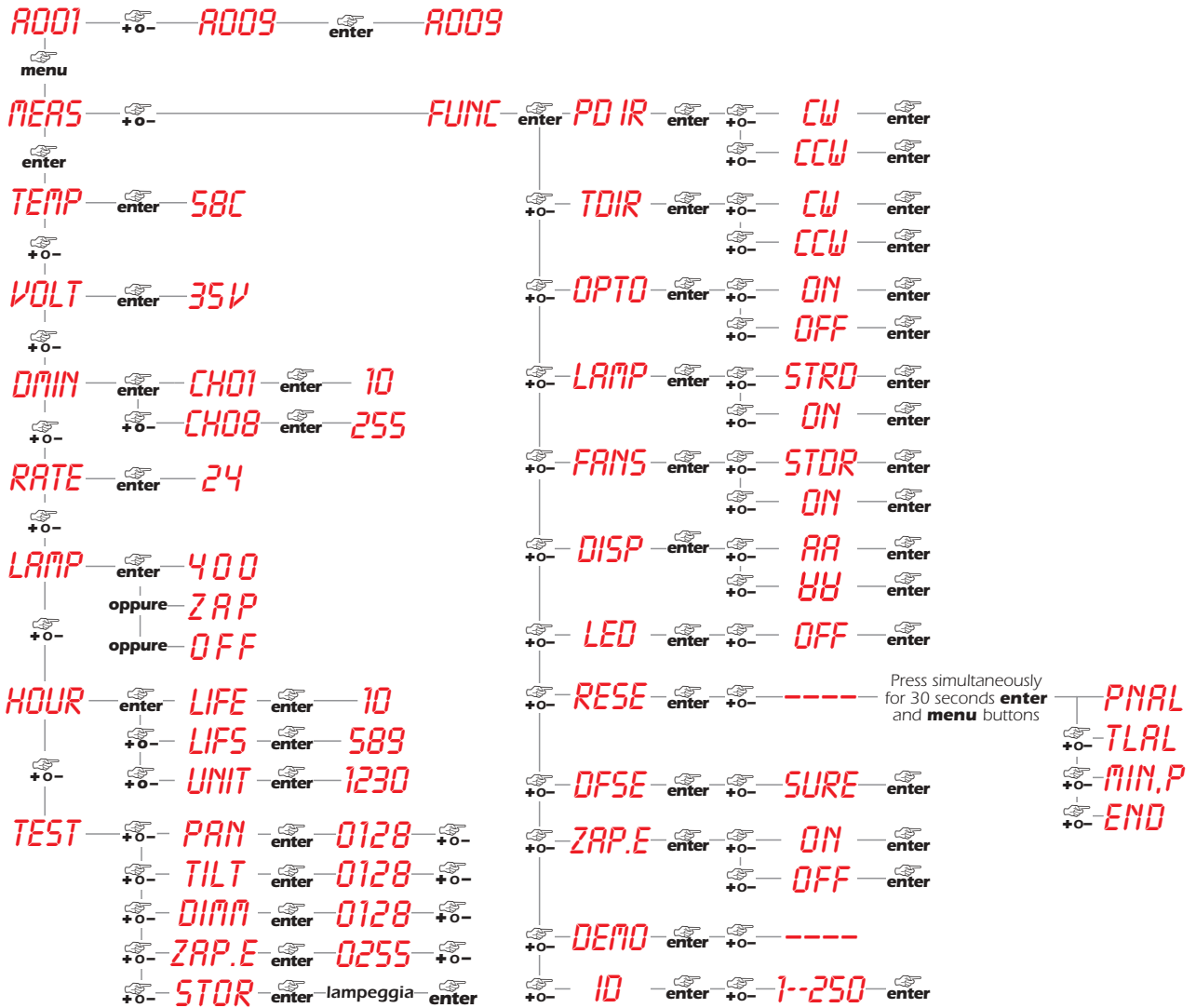
11.2. Measure and test (MEAS)

The electronic pcbs of the **Fiera 575 EB** allow for various digital and auto-diagnostic measurements to be made. You may, in this section, record a home position to which the projector will return when it is turned on in the absence of dmx signal.



11.3. Quick guide to menu navigation

The following guide will allow you to scroll quickly through the various menus located in the display.



11.4. Rapid scrolling

Via the display of the **Fiera 575 EB** it is possible to quickly alter the numerical values associated with the various parameter settings. There are three methods for doing this:

- 1) Pressing and holding the + or - buttons will cause the display to scroll rapidly in sequence through the numerical values.
- 2) Pressing and holding the + button and then pressing and holding down the - button will cause the display to jump to the highest possible value associated with the respective parameter.
- 3) Pressing and holding the - button and then pressing and holding down the + button will cause the display to jump to the lowest possible value associated with the respective parameter.

12. DMX 512 operation

If all the procedures have been carried out correctly to this point, the 8 channels of your **DMX 512** controller will have control over all the functions of the **Fiera 575 EB** as described in the table below:

canale	funzione	tipo di controllo	effetto	decimale		percentuale	
1	Pan (X axis) movement, coarse	proportional	coarse (8 bit) positioning of pan	0	- 255	0%	- 100%
2	Pan (X axis) movement, fine	proportional	fine (16 bit) positioning of pan	0	- 255	0%	- 100%
3	Tilt (Y axis) movement, coarse	proportional	coarse (8 bit) positioning of tilt	0	- 255	0%	- 100%
4	Tilt (Y axis) movement, fine	proportional	fine (16 bit) positioning of tilt	0	- 255	0%	- 100%
5	movement speed	step	standard (fast)	0	- 10	0%	- 4%
		step	ultra fast movement (ideal for positioning during programming)	11	- 25	4%	- 10%
		proportional	vector mode, fast to slow	26	- 127	10%	- 50%
		proportional	Tracking mode (from fast to slow)	128	- 247	50%	- 97%
		proportional	Tracking mode (slow)	248	- 255	97%	- 100%
6	dimmer	proportional	light intensity from 400 to 575w	0	- 255	0%	- 100%
7	zap effect (lamp power imposed on channel 6) if dimmer = 0 (400 W), zap effect is not visible	step	off	0	- 9	0%	- 4%
		proportional	variable speed strobing effect, from slow to fast	10	- 66	4%	- 26%
		step	strobe off	67	- 68	26%	- 27%
		proportional	sequenced pulse effect, slow fade down, fast fade up (Speed variable from slow to fast)	69	- 125	27%	- 49%
		step	strobe off	126	- 127	49%	- 50%
		proportional	sequenced pulse effect, fast fade down, slow fade up (Speed variable from fast to slow)	128	- 184	50%	- 72%
		step	strobe off	185	- 187	73%	- 73%
		proportional	random strobe effect with variable speed from slow to fast	188	- 244	74%	- 96%
8	lamp on/off, motors reset	step	park, no function	0	- 10	0%	- 4%
			lamp off	11	- 29	4%	- 11%
			park, no function	30	- 135	12%	- 53%
			pan and tilt reset (once only)	136	- 170	53%	- 67%
			fan max speed	171	- 249	67%	- 98%
			lamp on, fan silent (if internal temperature allowed)	250	- 255	98%	- 100%
Note 1: The display panel may be used to disable the switching off of the lamp via DMX							
Note 2: The display panel may be used to change the minimum dimmer value							
Note 3: turning off the lamp and all the reset functions are delayed by 6 seconds to prevent accidental activation							
Note 4: the lamp on/off function can only be effected if an opposite level is set							
Fixture: coemar FIERA575 EB			Table name: DMX 512				
Chart number: 233		Edition: 0	Date: 13/10/2003				

13. Aligning the lamp in the optical path and adjusting the beam

Aligning the lamp in the optical path is achieved by altering the three adjusters located on the rear of the fixture.

This procedure should be undertaken to properly align the lamp in the optical system, thus avoiding the possible overheating of internal components and ensuring the maximum luminous output from the fixture.

aligning

Alignment is effected by altering the two adjusters **B** and **C** simultaneously, with the lamp on.

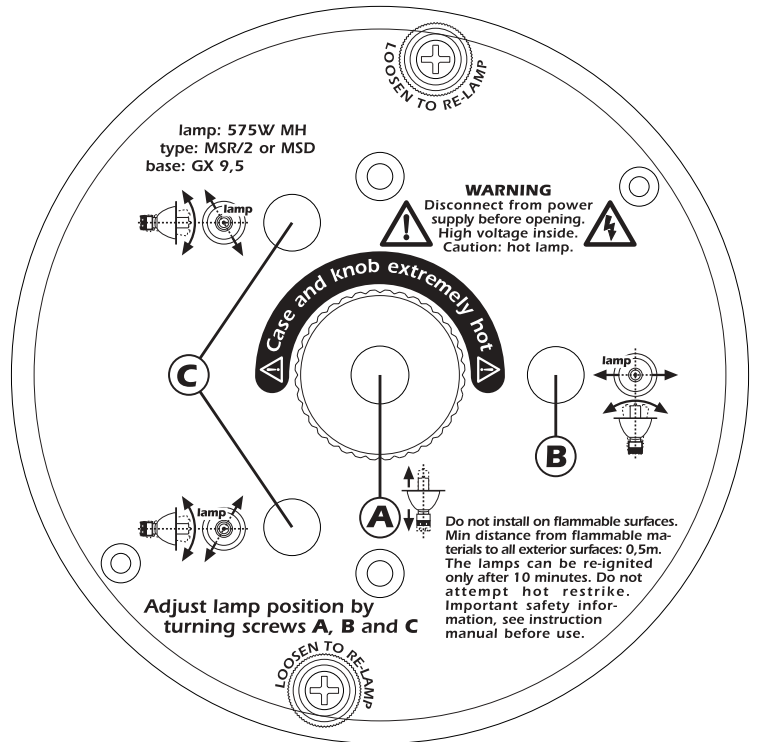
Output from a non-aligned lamp will be noticeable for a hot-spot; adjustment will bring the hot spot towards the centre of the beam, flattening it in the process.

Vertical adjustment

Adjuster (**C**) acts on an internal lever and spring assembly which moves the lamp vertically toward the centre of the parabolic reflector; rotate it until the correct positioning is achieved.

Horizontal adjustment

Adjuster (**B**) acts on an internal lever which moves the lamp horizontally in the centre of the parabolic reflector; rotate it until the correct positioning is achieved.



Axial adjustment (spot/flood)

Adjuster (**A**) moves the entire lampholder assembly axially within the reflector, rotate it until a flat, even beam is produced, with no noticeable hotspot.

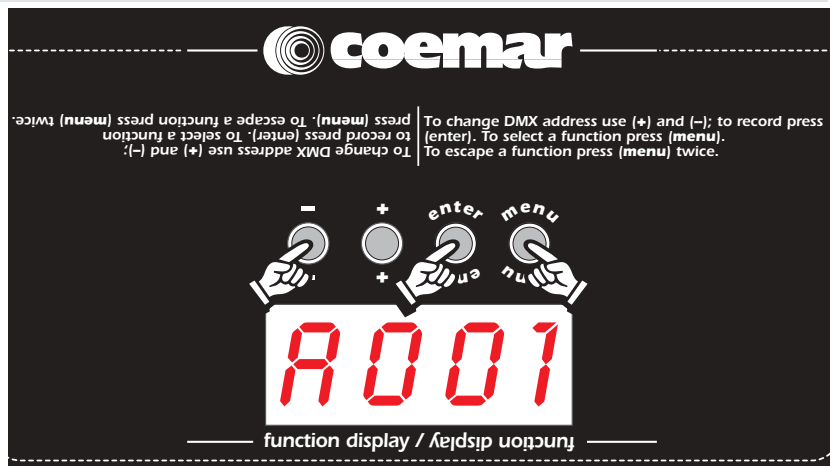
Attention/Danger

Adjuster (**A**) can become extremely hot after only a few minutes of lamp operation. Lamp alignment should be undertaken within 5 minutes of the lamp being turned on. During this procedure, do not touch the body of the projector.

14. Turning on the *Fiera 575 EB* without articulated movement

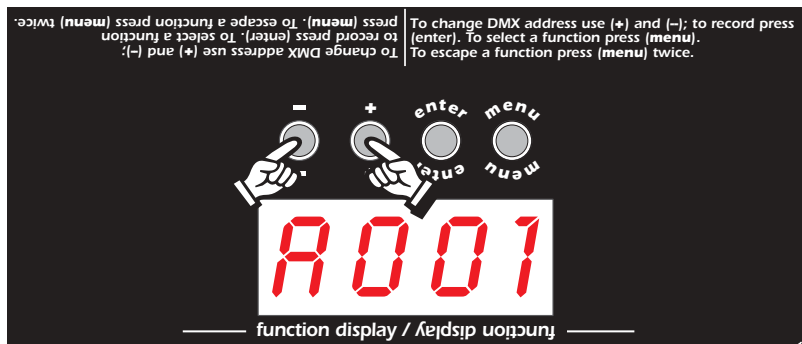
This procedure may be useful in situations where the *Fiera 575 EB* may need to be switched on in an enclosed space, such as in its flight case.

- 1) Turn on the projector whilst holding down the **enter**, **menu** and **-** buttons simultaneously. The projector will perform a reset of its electronic systems without any motor movement.
- 2) You may alter the DMX address or any other parameter at this point without any articulated movement.
- 3) To return to normal operation of the *Fiera 575 EB* turn the unit off and on via the **power** button, or effect a reset via the menu system.



15. Resetting the counters

The electronic counter should be reset every time a lamp is changed in the projector. so that realistic information about lamp life may be obtained. Upon turning on the **Fiera 575 EB**, simultaneously press the **+** and **-** buttons. In this manner, the counter will be reset.



After the projector has reset the lamp life counter **LIFE**.

To verify that the procedure has taken place, undertake the following steps:

- 1) Press the **menu** button; the projector will show **MODE**
- 2) Press the **+** button for **MERS** to be displayed.
- 3) Press the **enter** button
- 4) Press the **+** or **-** buttons until **HOUR** (display in hours) is displayed.
- 5) Press the **enter** button
- 6) Press the **+** or **-** buttons until **LIFE** (for lamp life) is displayed.
- 7) Press the **enter** button; the display will show **0000** confirming that the counter has been reset.

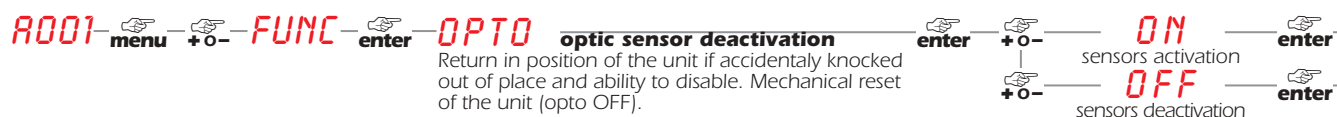
N.B. You may verify that the other counters **LIFS** (for total lamp life of all lamps utilised) and **UNIT** (operating life of the projector) have not been reset.

16. Automatic repositioning feature

An encoder system based on 4 position indicators allows the **Fiera 575 EB** to return to its correct position if it is accidentally moved during operation.

This is particularly useful if the projector is to be mounted on the floor in a position where the performer or artist may accidentally bump the unit.

NOTE: this function may be disabled (display panel function **OPTO OFF**).



17. Altering the operating voltage (Reserved for technical staff)

If the operating voltage set by **coemar** does not correspond to that is use in your country of operation, or if the projectors are destined for use in another country, a new operating voltage selection may be made as described below. Incorrect frequency and voltage selection will detrimentally affect the operation of the projector and immediately void the warranty.

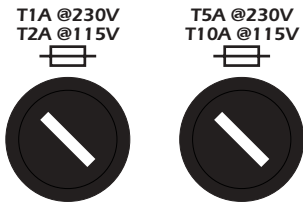
17.1. Selecting transformer operating voltage

This selection will alter the operating voltage to the electronic pcbs and internal motors.

- 1) Remove the screws on the base housing using a Philips head screwdriver as shown in the diagram below; completely remove the cover, thus providing full access to the internal components in the base of the **Fiera 575 EB**.



- 1) Locate the transformer in the base of the unit.
- 2) Select the voltage from amongst 100, 115, 200/208, 230 or 240V by removing cable n° 5 and moving it to the required voltage. Refer to the sticker on the transformer to ensure you are selecting the correct voltage. Cables numbered 7 and 3 should under no circumstances be moved from their respective positions.
- 3) If your operating voltage is set at 100 or 115V, replace the 5 Amp T fuse and the 1 Amp T fuse, both intended for 200/208/230/240 V operation, with respective fuses of 10 Amp T and 2 Amp T. The fuses are located in the fuseholders in the base of the projector as shown in the diagram.



If your operating voltage is set to 200/208/230/240V, replace the 10 Amp T, and the 2 Amp T, suitable for 100/115 V operation, with fuses of 5 Amp T and 1 Amp T respectively. New fuses are located in the packet which came in the original packaging, alongside this manual.



- 4) Replace the base cover and re-affix all screws as per their original positions.
- 5) Make a clear note of the new operating voltage on the outside of the base of the **Fiera 575 EB**.

100V

115V

200/208V

230V

240V

factory set main at:

50Hz ~

60Hz ~

18. Mechanical adjustments

After having powered up the unit and checked all the functions via **DMX 512** control signal, you may need to effect some mechanical adjustments to the projector to suit your particular installation.

18.1 Adjusting the beamspread using optional filters

There are several optional filters which can be utilised to alter the dimensions of the output of the projectors to suit specific lighting applications.

All the lenses and diffusion filters are rotatable, thus allowing adjustment of the output through 360°



- Beamspread: circular
Transparent filter
cod. VT 216



- Beamspread: circular
Prismatic diffusion filter
cod. LE 08



- Beamspread: rectangular
Prismatic, maximum-diffusion filter
cod. LE 09

To facilitate the operation of replacing the optional filters, we suggest rotating the fixture head in a position perpendicular to the base.

Attention!

Prior to lense replacement, remember to turn off the fixture and allow it to cool. Never expose yourself directly to the light output from the front of the unit. Make sure that the lenses are not cracked or chipped. Use only **coemar** approved lenses.

- 1) Using a flat screwdriver, loosen the 4 screws which affix the lense and barndoor retaining ring.
- 2) Rotate the retaining ring to which the barndoors are attached, thereby removing it.



- 3) Remove the lense you intend to replace.



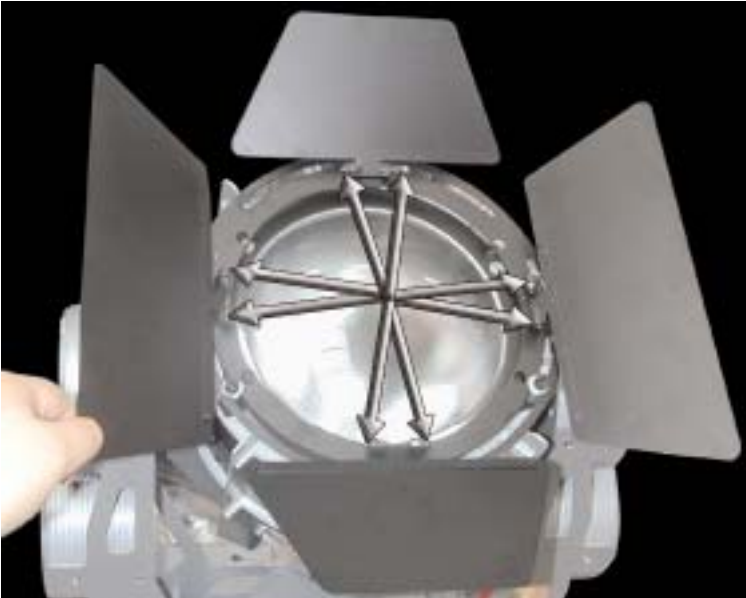
- 4) Insert the new lense, determining the rotated position you wish it to occupy. Lenses are rotatable through 360°
- 5) After installing the new lense, reposition the retaining ring and refasten the 4 screws previously loosened.

18.2 Adjusting the barndoors

The 4 leaf barndoors allow the beam output of the projector to be masked and adjusted to suit your requirements. The barndoors may be adjusted individually and may be rotated as a group.

18.2.1 Individual leaf adjustment

1) Each of the 4 leaves may be individually adjusted by pushing it towards or away from the lense, allowing for more or less masking of the beam output. If needed, you may loosen or tighten the mechanism as shown in the diagram.



Attention!

To avoid overheating the fixture, never full close the barndoors whilst the lamp is on.

2) If you should find it necessary to loosen the individual barndoors to adjust their position, ensure that you retighten them sufficiently to avoid them sagging.

18.2.2 Rotating the barndoors

1) The barndoor group may be rotated through 90° by loosening the three adjusters as shown in the diagram.



Attention!

Never remove the 4 leaf barndoors completely - this may result in the fixture being unbalanced and not articulating correctly.

2) Retighten the three adjusters after having repositioned the barndoors, so that they remain in the required position during articulated movement.

19. Automatic internal functions

Fiera 575 EB has several internal automatic functions which may not be noticed in the first instance but which, nonetheless, may assist the operator in making best use of the projector.

lamp on timer

This internal system in the electronic ballast governs the start up process so that if a prolonged unsuccessful attempt (over 20 seconds) is made to strike the lamp, the device will then automatically attempt to strike the lamp for 20 seconds once every minute for the following 8 minutes. After this the lamp circuit is disabled (assumes a failed lamp).

This device protects the transformer and ignitor.

NOTE: it is then necessary to remove the fixture from mains power and replace the lamp.

temperature controlled cooling fans

A thermal sensor in the body of the **Fiera 575 EB** constantly monitors the internal temperature of the fixture to ensure that it remains at an optimal level.

The electronic circuitry of the **Fiera 575 EB** is designed to compensate for a rise in the internal temperature of the unit by increasing the cooling fan speed.

In this manner, the internal components of the fixture are maintained in an optimal temperature range and the fans are operating at the minimal speed required, thus minimising any noise.

NOTE: If you wish to maintain the fans at the maximum operating speed, you may do this via the display function (function **FAN ON**) or directly by keeping DMX channel 8 at a level between 171 and 249.

automatic return to position

An encoder system based on 4 position indicators allows the **Fiera 575 EB** to return to its correct position if it is accidentally moved during operation.

This is particularly useful if the projector is to be mounted on the floor in a position where the performer or artist may accidentally bump the unit

NOTE: this device may be deactivated (see section 11 Display panel functions - **OPTO OFF**).

20. Maintenance

Whilst every possible precaution has been taken to ensure the trouble-free operation of your **Fiera 575 EB**, the following periodic maintenance is highly recommended. Prior to undertaking any maintenance procedure, make sure the fixture is disconnected from mains power.

Attention

Disconnect mains power prior to opening up any housing.

Periodic cleaning Lenses and reflectors

Even a fine layer of dust can reduce the luminous output substantially. Regularly clean all lenses and the reflector using a soft cotton cloth, dampened with a specialist cleaning solution.

Fans and air passages

The fans and air passages must be cleaned approximately every 6 weeks; the period for this cleaning will depend, of course, upon the conditions in which the projector is operating. Suitable instruments for performing this type of maintenance are a brush and a common vacuum cleaner or an air compressor.

Periodic maintenance Lamp

The lamp should be replaced if there is any observable damage or deformation due to heat. This will avoid the danger of the lamp exploding.

Mechanicals

Periodically check all mechanical devices for wear and tear, gears, guides, belts, etc, replacing them if necessary. Periodically check for mechanical damage and replace components as required. Check the tensioning of all belts and adjust if necessary.

Electrical components

Check all electrical components for correct earthing and proper attachment of all connectors, refastening if necessary.

Replacing fuses

Locate the fuses which protect the lamp and internal circuitry. These are indicated by labels on the base of the **Fiera 575 EB**.

Use a multimeter to check the condition of the fuse, replacing it with one of similar value if required.

21. Electronic motor alignment

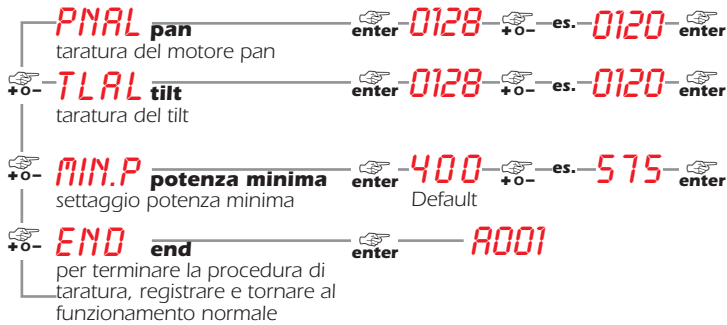
Reserved for technical staff

The display panel of the **Fiera 575 EB** allows for the electronic alignment of the projector's motors. This procedure is performed by **coemar** at the factory. It may be useful to perform this procedure in the case of internal components being replaced. Altering the factory settings may radically alter the functioning of the projector. Carefully read all of the following prior to attempting any following prior to attempting any changes.

electronic calibration

Important Note: A **DMX 512** controller must be connect to the fixture in order to carry out this procedure.

- 1) Press the **menu** button.
- 2) Press the **+** or **-** buttons until **RESE** (for reset) is displayed.
- 3) Simultaneously press the **enter** and **menu** buttons holding them down for at least **30"**. The motors will perform a reset, and the display will show **-----** for some few seconds, indicating you have commenced the calibration procedure:



contemporaneamente
+ - 0128

NOTA:
Per velocizzare la procedura di allineamento/taratura, durante la funzione è possibile premere i tasti **+** e **-** contemporaneamente e il display salta automaticamente a 128

22 Error messages

MBER:	COMMUNICATION Error The display panel is not communicating correctly with the main pcb: check the flat ribbon cable which connects the two.
OPER:	PAN ENCODER Error This message indicates that there is a problem with the PAN Encoders: Check the sensors and all associated cabling on the wheel which is used to determine the PAN movement in the base
QTER:	TILT ENCODER Error This message indicates that there is a problem with the TILT Encoders: Check the sensors and all associated cabling on the wheel which is used to determine the TILT movement in the yoke
SMER:	LINE SYNCHRONISATION Error Check and replace opto-isolator U9.
EPER:	EEPROM Error The EEPROM is either defective or is absent; refer to your coemar service centre for a replacement component.
QTER:	DATA Error The initial parameter settings are either incorrect or corrupt, the projector has reloaded its factory defaults: Turn the projector off and on again. Should the error reoccur, refer the unit to your authorised service centre for a replacement EEPROM
ER20 ÷ ER99:	SYSTEM Error Turn the unit off and then on again. Should the error reoccur, refer the unit to your authorised coemar service centre.

23. Spare parts

All the components of the **Fiera 575 EB** are available as spare parts from your authorised **coemar** service centre. Accurate description of the fixture, model number and type will assist us in providing for your requirements in an efficient and effective manner.



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manuale istruzioni
instruction manual

Fiera 575 EB

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