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### **DOCUMENT VERSION**



Due to additional product features and/or enhancements, an updated version of this document may be available online. Please scan the QR Code with your mobile device or visit www.elationlighting.com for the latest revision/update of this manual, before installation and/or programming.

Date	Document Version	Software Version	DMX Channel Mode	Notes
08/21/23	1.0	1.03	24/32/22/28/22/28	Initial Release
02/06/24	1.1	N/C	No Change	Updated RDM, Specifications
04/05/24	1.2	N/C	No Change	Updated IP65 Rated
03/10/25	1.3	N/C	No Change	Updated Specifications

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## **GENERAL INFORMATION**

### INTRODUCTION

Please read and understand the instructions in this manual carefully and thoroughly before attempting to operate this device. These instructions contain important safety and use information. This device is intended for use by trained personnel only, and is not suitable for private use.

#### UNPACKING

Every device has been thoroughly tested and has been shipped in perfect operating condition. Carefully check the shipping carton for damage that may have occurred during shipping. If the carton is damaged, carefully inspect the device for damage, and be sure all accessories necessary to install and operate the device have arrived intact. In the event damage has been found or parts are missing, please contact our customer support team for further instructions. Please do not return this device to your dealer without first contacting customer support. Please do not discard the shipping carton in the trash. Please recycle whenever possible.

### **BOX CONTENTS**

Power Cable (x1)

### **CUSTOMER SUPPORT**

Contact ELATION Service for any product related service and support needs. Also visit forums.elationlighting.com with questions, comments, or suggestions.

ELATION SERVICE USA - Monday - Friday 8:00am to 4:30pm PST 323-582-3322 | Fax 323-832-9142 | support@elationlighting.com

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**REPLACEMENT PARTS** please visit parts.elationlighting.com



# IMPORTANT NOTICE!

THERE ARE NO USER SERVICEABLE PARTS INSIDE THIS UNIT.

DO NOT ATTEMPT ANY REPAIRS YOURSELF; DOING SO WILL VOID YOUR MANUFACTURER'S WARRANTY. DAMAGES RESULTING FROM MODIFICATIONS TO THIS FIXTURE AND/OR THE DISREGARD OF SAFETY INSTRUCTIONS AND GUIDELINES IN THIS MANUAL VOID THE MANUFACTURER'S WARRANTY AND ARE NOT SUBJECT TO ANY WARRANTY CLAIMS AND/OR REPAIRS.

It is strongly recommended to power the fixture down completely when not in use. Doing so will reduce wear on the fixture due to sustained or extended operational periods, thereby maximizing its operational lifespan.

## **IP65 RATED**

To ensure the longevity and optimal operation of the **Elation KL Spot IP**, with its IP65 rating for enhanced performance in diverse environments, adhere to the following guidelines:

- **Operational Precautions:** It is recommended to avoid continuous operation beyond a 12-hour period without cooling breaks. The unit should not be operated outside of its approved temperature ratings to maintain performance and prevent overheating.
- **Environmental Exposure:** Although the IP65 rating ensures durability against various weather conditions, prolonged exposure to direct sunlight can affect the fixture's performance. Utilize protective covers or shade structures during non-operational periods to protect the fixture and avoid pointing the optics at the sun directly.
- **Maintenance and Inspection:** Regularly inspect the fixture for signs of wear or damage, especially before and after outdoor use. Keeping the fixture clean from dust and debris is essential for maintaining performance and safety.
- Environment Flexibility: The KL Spot IP is well-suited for both indoor and outdoor installations. It excels in temporary outdoor events or installations, such as holiday lighting and themed attractions, and can be adapted for long-term installations with proper considerations.
- Marine or Coastal Use: Given the unique challenges presented by marine or coastal environments, such as increased exposure to salt and moisture, consulting the Elation service team prior to installation is crucial for obtaining approval or learning about additional long-term permanent installation precautions and best practices. Additional Maritime coatings and protections may be needed and are available at additional cost.

**Important Notice:** Unauthorized modifications or repairs can void the warranty and compromise the fixture's safety and performance.

Following these streamlined guidelines enables users to maximize the creative potential of the KL Spot IP while ensuring safe and reliable operation across various applications and environments. Special attention to operational, environmental, and compliance considerations, alongside the fixture's IP65 capabilities and marine or coastal use considerations, provides a comprehensive framework for optimal use.

## LIMITED WARRANTY (USA ONLY)

- A. Elation Professional hereby warrants, to the original purchaser, Elation Professional products to be free of manufacturing defects in material and workmanship for a period of two years (730 days), and Elation Professional product rechargeable batteries to be free of manufacturing defects in material and workmanship for a period of six months (180 days), from the original date of purchase. This warranty excludes discharge lamps and all product accessories. This warranty shall be valid only if the product is purchased within the United States of America, including possessions and territories. It is the owner's responsibility to establish the date and place of purchase by acceptable evidence, at the time service is sought.
- B. For warranty service, send the product only to the Elation Professional factory. All shipping charges must be pre-paid. If the requested repairs or service (including parts replacement) are within the terms of this warranty, Elation Professional will pay return shipping charges only to a designated point within the United States. If any product is sent, it must be shipped in its original package and packaging material. No accessories should be shipped with the product. If any accessories are shipped with the product, Elation Professional shall have no liability what so ever for loss and/or damage to any such accessories, nor for the safe return thereof.
- C. This warranty is void if the product serial number and/or labels are altered or removed; if the product is modified in any manner which Elation Professional concludes, after inspection, affects the reliability of the product; if the product has been repaired or serviced by anyone other than the Elation Professional factory unless prior written authorization was issued to purchaser by Elation Professional; if the product is damaged because not properly maintained as set forth in the product instructions, guidelines and/or user manual.
- D. This is not a service contract, and this warranty does not include any maintenance, cleaning or periodic check-up. During the periods as specified above, Elation Professional will replace defective parts at its expense, and will absorb all expenses for warranty service and repair labor by reason of defects in material or workmanship. The sole responsibility of Elation Professional under this warranty shall be limited to the repair of the product, or replacement thereof, including parts, at the sole discretion of Elation Professional. All products covered by this warranty were manufactured after January 1, 1990, and bare identifying marks to that effect.
- E. Elation Professional reserves the right to make changes in design and/or performance improvements upon its products without any obligation to include these changes in any products theretofore manufactured.
- F. No warranty, whether expressed or implied, is given or made with respect to any accessory supplied with the products described above. Except to the extent prohibited by applicable law, all implied warranties made by Elation Professional in connection with this product, including warranties of merchantability or fitness, are limited in duration to the warranty periods set forth above. And no warranties, whether expressed or implied, including warranties of merchantability or fitness, shall apply to this product after said periods have expired. The consumer's and/or dealer's sole remedy shall be such repair or replacement as is expressly provided above; and under no circumstances shall Elation Professional be liable for any loss and/or damage, direct and/or consequential, arising out of the use of, and/or the inability to use, this product.
- G. This warranty is the only written warranty applicable to Elation Professional products and supersedes all prior warranties and written descriptions of warranty terms and conditions heretofore published.

### **WARRANTY RETURNS**

All returned service items whether under warranty or not, must be freight pre-paid and accompany a return authorization (R.A.) number. The R.A. number must be clearly written on the outside of the return package. A brief description of the problem as well as the R.A. number must also be written down on a piece of paper and included in the shipping container. If the unit is under warranty, you must provide a copy of your proof of purchase invoice. Items returned without a R.A. number clearly marked on the outside of the package will be refused and returned at customer's expense. You may obtain a R.A. number by contacting customer support.

## SAFETY GUIDELINES

This fixture is a sophisticated piece of electronic equipment. To guarantee smooth operation, it is important to follow all instructions and guidelines in this manual. Elation Professional is not responsible for injury and/or damages resulting from the misuse of this fixture due to the disregard of the information printed in this manual. Only qualified and/or certified personnel should perform installation of this fixture and only the original rigging parts included with this fixture should be used for installation. Any modifications to the fixture and/or the included mounting hardware will void the original manufacturer's warranty and increase the risk of damage and/or personal injury.



PROTECTION CLASS 1 - FIXTURE MUST BE PROPERLY GROUNDED.



THERE ARE NO USER SERVICEABLE PARTS INSIDE THIS UNIT. DO NOT ATTEMPT ANY REPAIRS YOURSELF. DOING SO WILL VOID YOUR MANUFACTURER'S WARRANTY. DAMAGES RESULTING FROM MODIFICATIONS TO THIS DEVICE AND/OR THE DISREGARD OF SAFETY INSTRUCTIONS AND GUIDELINES IN THIS MANUAL VOID THE MANUFACTURER'S WARRANTY AND ARE NOT SUBJECT TO ANY WARRANTY CLAIMS AND/OR REPAIRS.



DO NOT PLUG THIS UNIT INTO A DIMMER PACK
DO NOT REMOVE THE COVER UNDER ANY CONDITIONS
NEVER OPERATE THIS UNIT WITH THE CASING REMOVED
UNPLUG FROM POWER DURING LONG PERIODS OF NON-USE
DISCONNECT POWER BEFORE PERFORMING MAINTENANCE



NEVER LOOK DIRECTLY INTO THE LIGHT SOURCE!
RETINA INJURY RISK - MAY INDUCE BLINDNESS!
SENSITIVE PERSONS MAY SUFFER AN EPILEPTIC SHOCK!



FIXTURE SHOULD BE PLACED A MINIMUM OF 1.0 FOOT (0.3 METERS) FROM ANY NEARLY OBJECTS OR SURFACES.

FIXTURE SHOULD BE PLACED A MINIMUM OF 1.6 FEET (0.5 METERS) FROM ANY FLAMMABLE MATERIALS.

MAXIMUM AMBIENT OPERATING TEMPERATURE IS 113°F (45°C)

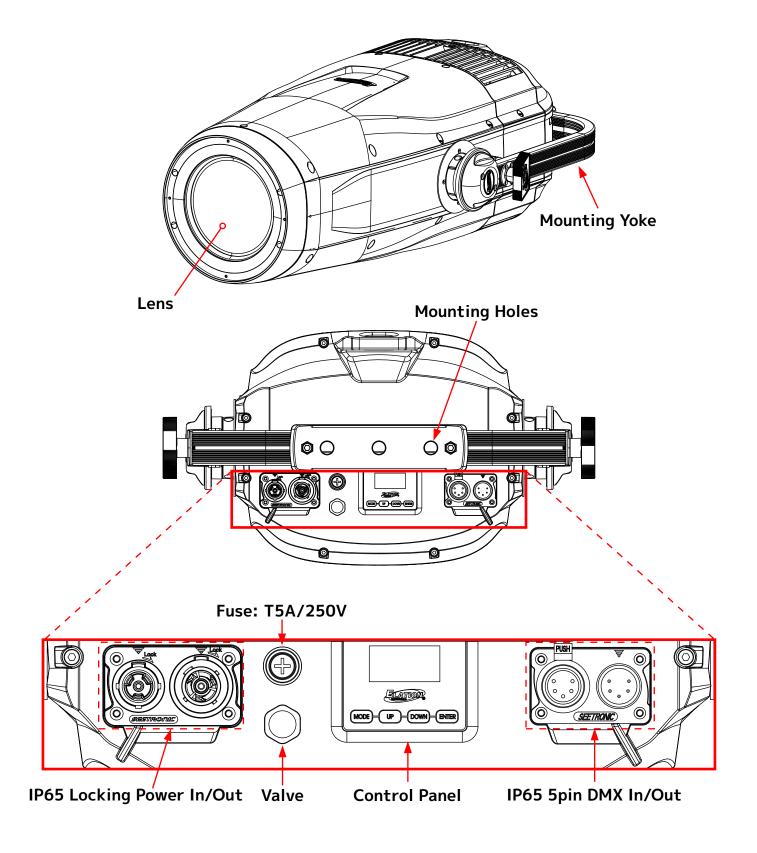
## SAFETY GUIDELINES

# For Your Own Personal Safety, Please Read and Understand This Manual Completely Before You Attempt To Install Or Operate This Unit!

- Do not touch the fixture housing during operation, as it may be hot.
- Do not shake the fixture, and avoid using brute force when installing and/or operating.
- Use only the original packaging and materials to transport or ship the fixture for service. Make sure to retain the original packaging for this purpose.
- Be sure that the local power outlet matches the required voltage for the device.
- Do not open up the device for any reason. There are no user serviceable parts inside.
- Disconnect the device's main power when left unused for long periods of time.
- Never connect this device to a dimmer pack.
- Do not attempt to operate this device if it has been damaged in any way.
- Never operate this device with the cover removed.
- Do not attempt to operate this device if the power cord has been frayed or broken.
- Never force a power cord connector into the fixture. If the power cord or any of its connectors are damaged, replace immediately with a new cord of the same power rating.
- Do not attempt to remove or break off the ground prong from the electrical cord. This prong is used to reduce the risk of electrical shock and fire in case of an internal short.
- Only handle the power cord by the plug end. Never disconnect the plug by tugging on the wire portion of the power cord.
- Disconnect from main power before making any type of connection.
- Never block the air ventilation slots. Always be sure to mount this device in an area that will allow proper ventilation. Allow about 6" (15cm) between this device and a wall.
- Always mount this unit in a safe and stable matter.
- Please route your power cord out of the way of foot traffic. Power cords should be routed so they are not likely to be walked on or pinched by items placed upon or against them.
- Before performing any servicing, turn off and disconnect the device from power and allow at least 15 minutes for the device to cool.
- Consistent operational breaks will ensure that this fixture will function properly for many years.
- The device should be serviced by qualified service personnel when:
  - A. The power-supply cord or the plug has been damaged.
  - B. Objects have fallen on, or liquid has been spilled into, the device.
  - C. The device has been immersed in liquid or exposed to moisture.
  - D. The appliance does not appear to operate normally or exhibits a marked change in performance.

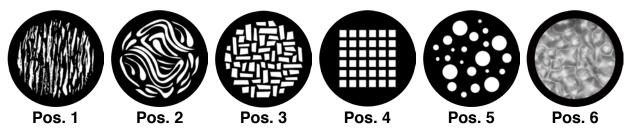
### Keep all flammable materials away from this fixture!

## **OVERVIEW**

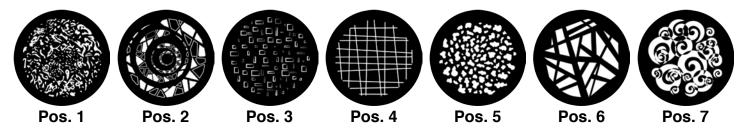


## **GOBOS & GOBO WHEELS**

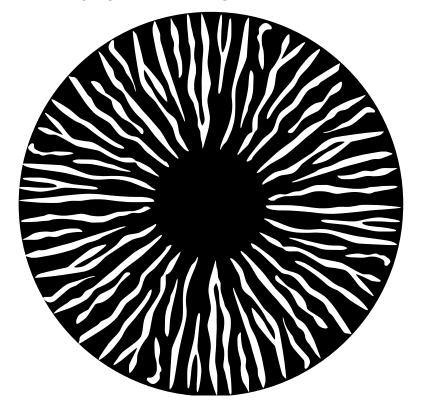
### **ROTATING GOBO WHEEL**



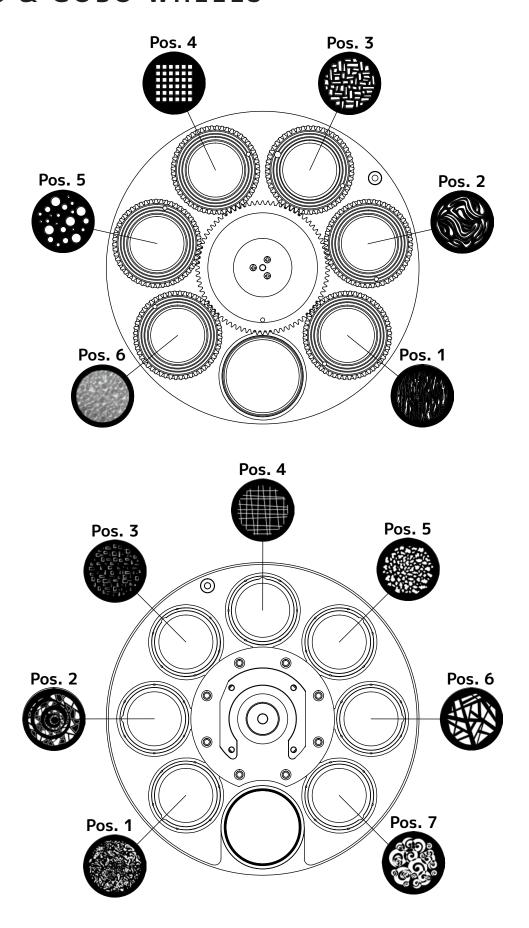
### **FIXED GOBO WHEEL**



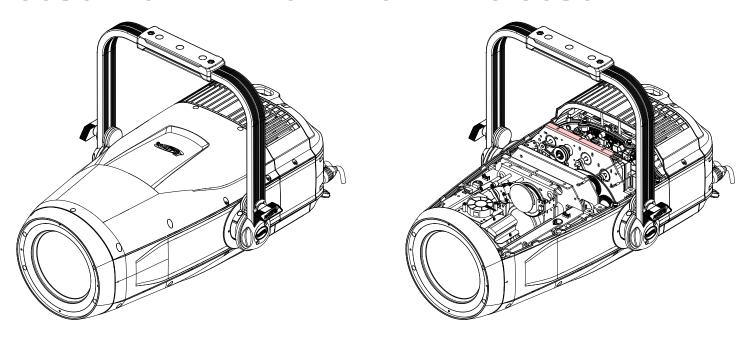
### **BI-DIRECTIONAL ANIMATION WHEEL**



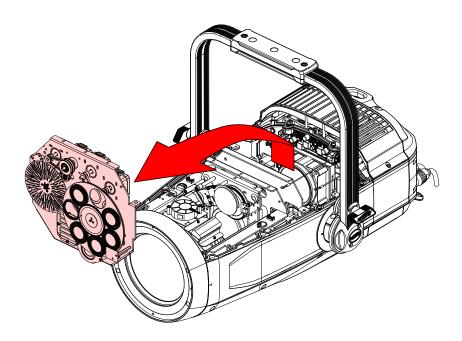
# **GOBOS & GOBO WHEELS**



# **GOBO INSTALLATION - ROTATING GOBO WHEEL 1**

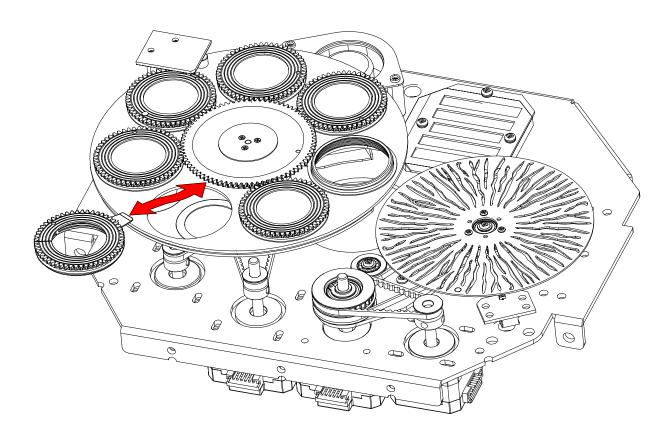


Open the top cover of the fixture and locate the rotating gobo wheel module.



Remove the screws that secure it to the internal housing frame, then carefully remove it and set it aside.

## GOBO INSTALLATION - ROTATING GOBO WHEEL 1



Locate the Rotating GOBO being replaced. Carefully press the GOBO Holder up to clear the frame, then pull it out and away until it fully clears the Fixed GOBO Wheel.

Locate the tab of the Retention Spring, and with a precision pick (or similar tool), carefully press the Retaining Spring inward to relieve the tension. Remove the retaining spring and carefully separate the GOBO from the GOBO Holder.

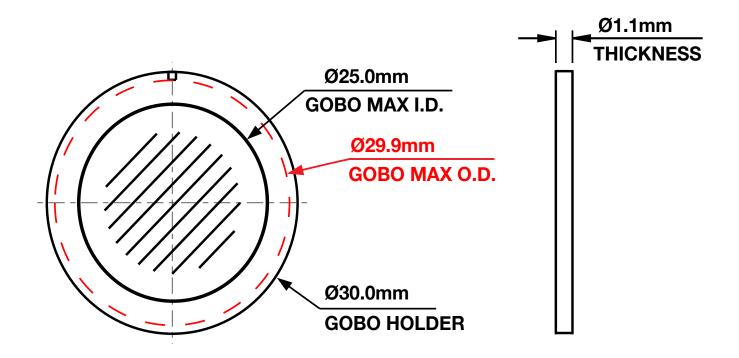
### CAUTION: TAKE CARE NOT TO SCRATCH GOBO OR GOBO HOLDER

To ensure proper Gobo orientation on the Rotating Gobo Wheel, align the Alignment Dots before installing the Retention Spring. These alignment dots are the notch in the Gobo Holder, the dot on the top and bottom of the Gobo Holder Retention Tab, and on the Gobo itself.

Rotate the Gear of the Rotating Gobo Wheel until the Gear Alignment Dot on the Rotating Gobo Wheel is lined up with the empty Gobo Holder Slot. Install the Gobo Holder Tab into the Gobo Holder Tab Receptacle and press until the Gobo Holder gently springs into the empty Gobo Holder Slot.

### **GOBO DIMENSIONS**

### Gobos for Rotating Gobo Wheel1



FUZE PROFILE ROTATING G	LASS GOBOS - WHEELS 1 & 2
Gobo O.D. (Max. Outer Diameter)	ф29.9mm
Gobo I.D. (Max. Image Diameter)	ф25.0mm
Gobo Holder Diameter	ф30.0mm
Gobo Thickness	ф 1.1mm
Gobo Material	High Temp Glass (Max 600C°)

Please be aware of the intended position and correct sizing requirements of custom gobos.

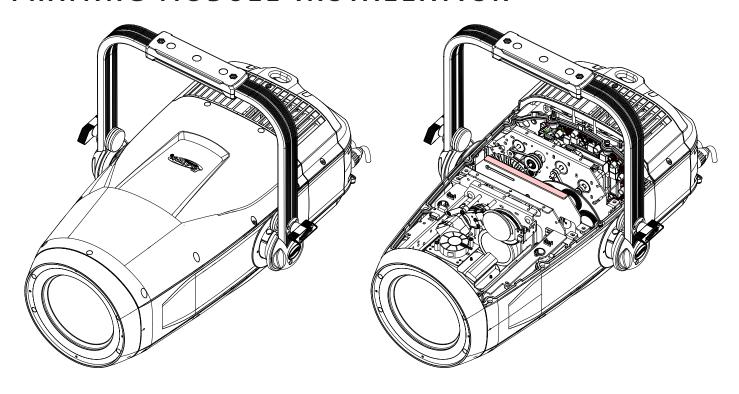
### \* \* \* IMPORTANT NOTICE REGARDING CUSTOM GOBOS \* \* \*

Due to the high temperature optical system, special glass material is required for custom gobos. Due to varying manufacturing processes and tolerances, it is highly recommended to provide a gobo sample and holder from the fixture to the custom gobo vendor for accurate sizing. Extended testing of custom gobo designs is highly recommended prior to use. Contact ELATION SERVICE for further information.

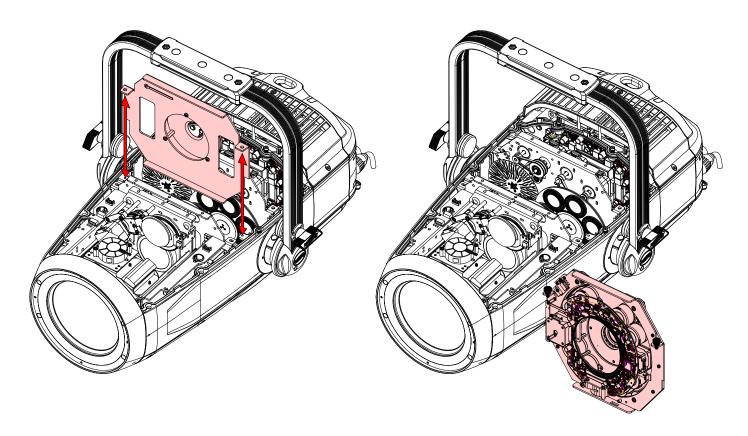
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## FRAMING MODULE INSTALLATION



Open the top cover of the fixture and locate the framing module placeholder.



Remove the framing module placeholder and replace it with the new framing module, then reinstall the top cover.

## TORQUE SETTINGS FOR SCREWS

The hex-head screws holding either the panels or the base MUST be tightened with a torque wrench (not included).

### **TORQUE SETTINGS:**

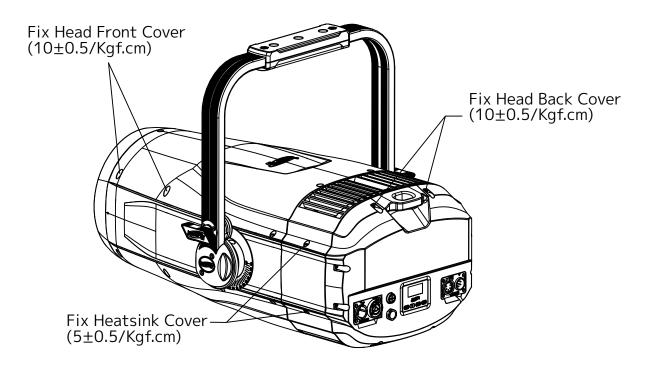
**Ibf-in = Pound Force Inches** 

kgf-cm = Kilogram Force Centimeters



CAUTION! THE USE OF PROTECTIVE GLOVES AND SAFETY GOGGLES IS STRONGLY RECOMMENDED WHILE PERFORMING THE IP PRESSURE TEST! AVOID PLACING YOUR FACE, EYES, HANDS, ETC IN CLOSE PROXIMITY TO THE FIXTURE'S LENS WHILE PERFORMING THE TEST!

CAUTION! DO NOT OVER TORQUE SCREWS AS THIS CAN CAUSE LEAKAGE ISSUES!



TO CONFIRM THE IP65 INTEGRITY AFTER OPENING COVER, TEST FIXTURE USING THE ELATION IP TESTER. CONTACT ELATION SERVICE FOR MORE DETAILS.



IP PRESSURE TE	IP PRESSURE TESTING PARAMETERS							
Parameter	Value							
Maximum Pressure	2.3psi (23.0 KPa)							
Minimum Pressure	2.9psi (20.0 KPa)							
Inflation Time	30-seconds							
Balance Time	15-seconds							
Detection Time	15-seconds							
Leakage amount	>100Pa							

### FAN CONTROL AND LOW NOISE OPERATION

The KL Spot IP is a high-performance fixture suited for multiple applications. For noise critical environments such as Theater, Opera, or Orchestral Halls, it offers various fan operation modes which remove unwanted noise distractions for the audience and performers. Fan Modes can be changed remotely via the DMX control channel, allowing the fixture to offer high output or whisper-silent operation at a moment's notice. All Fan Modes smoothly transition over a brief period, preventing unwanted attraction to the fixture.

**Auto (Default)** – Fans only run at the speeds needed to keep the LED engine within a safe temperature range, and ensures optimal performance of the fixture. They will turn off if possible; for example, when the fixture is dimmed to a low intensity. Fans sense the ambient and fixture temperature and will, at all times, try to keep noise levels at a minimum. The fixture output will only be reduced when the LED engine cannot be cooled to its safe operating range due to a high ambient temperature.

NOTE: This mode is recommended for daily operation.

**High** – Fan speeds are increased throughout the fixture for the most efficient cooling. This mode will increase wear on the fans and should only be utilized in exceptional circumstances. Fans will always run, even if the fixture is dimmed. Fixture output is kept at 100% unless the LED engine temperature reaches an unsafe temperature, at which point the fixture will reduce power carefully to ensure continued safe operation. This mode is only required in very high ambient temperatures when automatic fan speed adjustments are not desired.

**Low** - For very critical noise environments, the fixture offers this mode, and two additional Low Noise Modes for silent operation: Studio and Mute. In Low mode, the fixture output will be reduced, yet due to the extremely high luminous flux, the fixture still offers outstanding performance. In Low Noise Mode, all parameters of the fixture operate more quietly with reduced fan speeds.

**Studio** – Fan speeds are reduced throughout the fixture for a lower noise profile. The fixture output is also reduced to approximately 80%. This mode should be sufficient for most uses where lower noise is required.

**Mute** – All but one fixture fan is turned off for whisper-quiet operation. The fixture LED power output is reduced to 25%.



### FLAMMABLE MATERIAL WARNING

Keep fixture minimum 5.0 feet (1.5m) away from flammable materials and/or pyrotechnics.



#### **ELECTRICAL CONNECTIONS**

A qualified electrician should be used for all electrical connections and/or installations.



MINIMUM DISTANCE TO OBJECTS/SURFACES IS 1 FOOT (0.3 METERS)



MINIMUM DISTANCE OF FLAMMABLE MATERIALS FROM THE SURFACE IS 1.6 FEET (0.5 METER)



MAXIMUM AMBIENT TEMPERATURE 113° F (45°C)



### DO NOT INSTALL THE FIXTURE IF YOU ARE NOT QUALIFIED TO DO SO!

Fixture **MUST** be installed following all local, national, and country commercial electrical and construction codes and regulations.

Before rigging/mounting a single fixture or multiple fixtures to any metal truss/structure or placing the fixture(s) on any surface, a professional equipment installer **MUST** be consulted to determine if the metal truss/structure or surface is properly certified to safely hold the combined weight of the fixture(s), clamps, cables, and accessories.

Fixture(s) should be installed in areas outside walking paths, seating areas, or away from areas where unauthorized personnel might reach the fixture by hand.

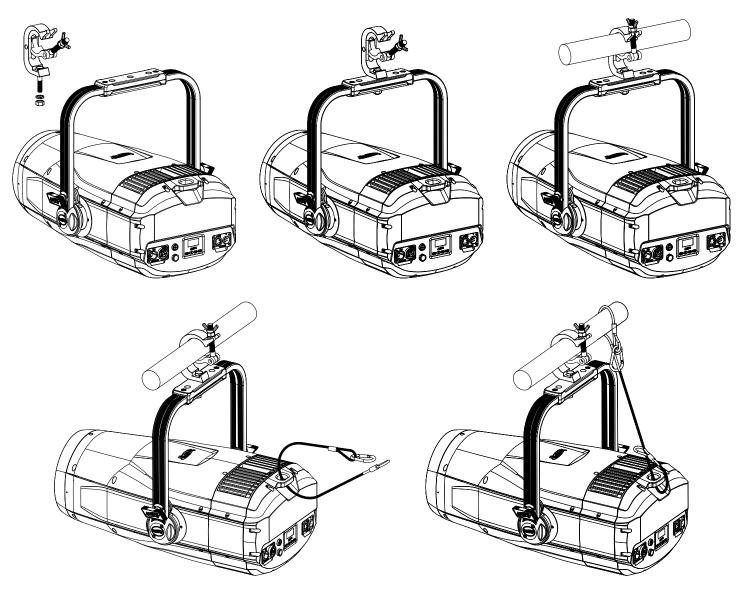
**NEVER** stand directly below the fixture(s) when rigging, removing, or servicing.

Overhead fixture installation must always be secured with a secondary safety attachment, such as an appropriately rated safety cable.

Allow approximately 15 minutes for the fixture to cool down before serving.

### **CLAMP INSTALLATION**

This device features mounting clamp attachment points built into the mounting bracket, as well as a safety cable attachment point located on the fixture (see the illustration below). When mounting the fixture to a truss or any other suspended or overhead installation, be sure to secure an appropriately rated clamp (not included) to the clamp attachment point and attach a separate SAFETY CABLE of the appropriate safety rating to the safety cable rigging point.





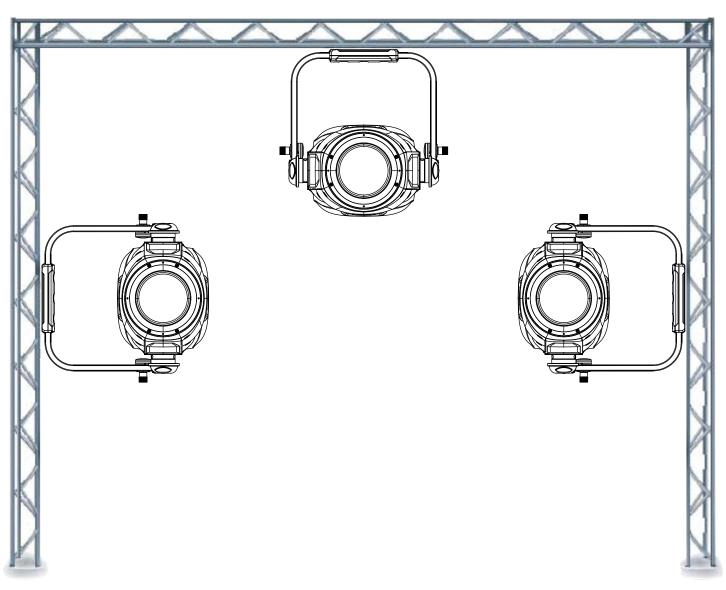
ALWAYS ATTACH A SAFETY CABLE WHENEVER INSTALLING THIS FIXTURE IN A SUSPENDED ENVIRONMENT TO ENSURE THAT THE FIXTURE WILL NOT FALL IF THE CLAMP FAILS.

### RIGGING

Overhead rigging requires extensive experience, including but not limited to: calculating working load limits, understanding the installation material being used, and periodic safety inspection of all installation material and the fixture itself. If you lack these qualifications, do not attempt to perform the installation yourself. Improper installation can result in bodily injury.

### **FIXTURE INSTALLATION**

The Elation KL SPOT IP is fully operational in three different mounting positions, hanging upside-down, mounted sideways on trussing, or set on a flat level surface. Be sure this fixture is kept at least 0.2m (7.9in.) away from any flammable materials (decoration etc.). Always use and install the supplied safety cable as a safety measure to prevent accidental damage and/or injury in the event the clamp fails. Never use the carrying handles for secondary attachment.





FALLING FIXTURES CAN CAUSE SEVERE INJURY OR SERIOUS EQUIPMENT DAMAGE! FOR THIS REASON, FIXTURES SHOULD BE INSTALLED AND INSPECTED ONLY BY QUALIFIED PERSONNEL. DO NOT INSTALL THE UNIT IF YOU LACK THE QUALIFICATIONS TO DO SO, OR IF YOU HAVE DOUBTS ABOUT THE SAFETY AND SECURITY OF THE INSTALLATION SETUP OR LOCATION!



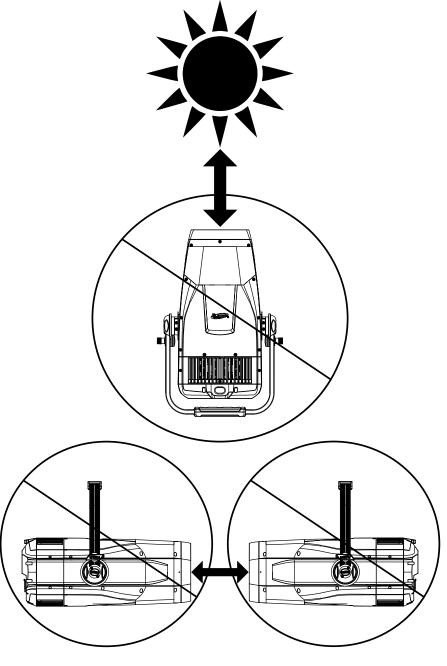
ALWAYS ATTACH A SAFETY CABLE WHENEVER INSTALLING THIS FIXTURE IN A SUSPENDED ENVIRONMENT TO ENSURE THE FIXTURE WILL NOT FALL IF THE CLAMP FAILS.

### POTENTIAL INTERNAL FIXTURE DAMAGE FROM EXTERNAL SOURCES OF LIGHT BEAMS

External sources of light beams from direct sunlight, lighting moving head fixtures, and lasers, which are focused directly towards the exterior housing and/or penetrate the front lens opening of ELATION lighting fixtures, can cause severe internal damage including burning to optics, dichroic color filters, glass and metal gobos, prisms, animation wheels, frost filters, iris, shutters, motors, belts, wiring, discharge lamps, and LEDs.

This issue is not specific only to ELATION lighting fixtures, it is a common issue with lighting fixtures from all manufacturers. Although there is no true way to fully prevent this issue from happening, the guidelines below can prevent any potential damage from occurring if followed. Contact ELATION Service for more details.

DO NOT EXPOSE THE FIXTURE AND/OR FRONT LENS OPENING TO LIGHT BEAMS FROM DIRECT SUNLIGHT, OTHER LIGHTING MOVING HEAD FIXTURES, AND LASERS WHILE UNPACKING, INSTALLATION, USE, AND EXTENDED IDLE TIMES OUTDOORS. DO NOT FOCUS A LIGHT BEAM FROM ONE LIGHTING FIXTURE DIRECTLY TOWARDS ANOTHER.



## REMOTE DEVICE MANAGEMENT (RDM)

NOTE: In order for RDM to work properly, RDM enabled equipment must be used throughout the entire system, including DMX data splitters and wireless systems.

Remote Device Management (RDM) is a protocol that sits on top of the DMX512 data standard for lighting, allowing the DMX systems of the fixtures to be modified and monitored remotely. This protocol is ideal for instances in which a unit is installed in a location that is not easily accessible.

With RDM, the DMX512 system becomes bi-directional, allowing a compatible RDM enabled controller to send out a signal to devices on the wire, as well as allowing the fixture to respond (known as a GET command). The controller can then use its SET command to modify settings that would typically have to be changed or viewed directly via the unit's display screen, including the DMX Address, DMX Channel Mode, and Temperature Sensors.

### FIXTURE RDM INFORMATION:

RDM Code	Device ID	Device Model ID	Personality ID
0x22A6	002A	42	001 Standard 002 Extended 003 RGB 004 RGB Extended 005 CMY 006 CMY Extended

Please be aware that not all RDM devices support all RDM features, and therefore it is important to check beforehand to ensure that the equipment that you are considering includes all of the features that you require.

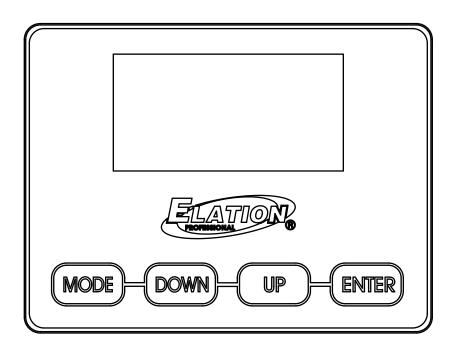
The following parameters are available on this device:

[0x0080] Device Model Description	[0x0030] Status Messages
[0x0081] Manufacturer Label	[0x0031] Status ID Description
[0x0082] Device Label	[0x0032] Clear Status ID
[0x0070] Product Detail ID List	[0x0120] Slot Information
[0x00E0] DMX Personality	[0x0121] Slot Description
[0x00E1] DMX Personality Description	[0x0122] Default Slot Value
[0x0400] Device Hours	[0x0200] Sensor Definition
[0x0405] Device Power Cycles	[0x0201] Sensor Value
[0x00C2] Boot Software Version Label	[0x0500] Display Invert
[0x00C1] Boot Software Version ID	[0x0501] Display Level
[0x00A0] Language Capabilities	[0x0603] Realtime Clock
[0x00B0] Language	[0x1010] Power State
[0x0015] Comms Status	[0x1031] Preset Playback

### SYSTEM MENU

The fixture includes an easy to navigate system menu. The control panel display is located on the rear panel of the fixture (see image below) and provides access to the main system menu, where all necessary system adjustments are made to the fixture. During normal operation, pressing the MODE button once will access the fixture's main menu. Once in the main menu you can navigate through the different functions and access the sub-menus with the DOWN and UP buttons. Once you reach a field that requires adjusting, press the ENTER button to activate that field and use the DOWN and UP buttons to adjust the field. Pressing the ENTER button once more will confirm the setting. Exit the main menu at any time without making any adjustments by pressing the MODE button.

The display screen will shut OFF automatically after 30 seconds of inactivity. To turn the display back on, press and hold the MODE button for 3 seconds.





A copy of the latest software can be obtained by contacting Elation Support.

AN ELATION C-LOADER II CAN ALSO BE USED TO UPDATE THE FIXTURE TO THE

LATEST SOFTWARE. To order this device, please contact Elation Support for

further details.

Detailed instructions can be found online at <a href="https://www.elationlighting.com">www.elationlighting.com</a>.

ELATION SERVICE USA - Monday - Friday 8:00am to 4:30pm PST 323-582-3322 | Fax 323-832-9142 | support@elationlighting.com

**ELATION SERVICE EUROPE - Monday - Friday 08:30 to 17:00 CET +31 45 546 85 63 | Fax +31 45 546 85 96 |** support@elationlighting.eu

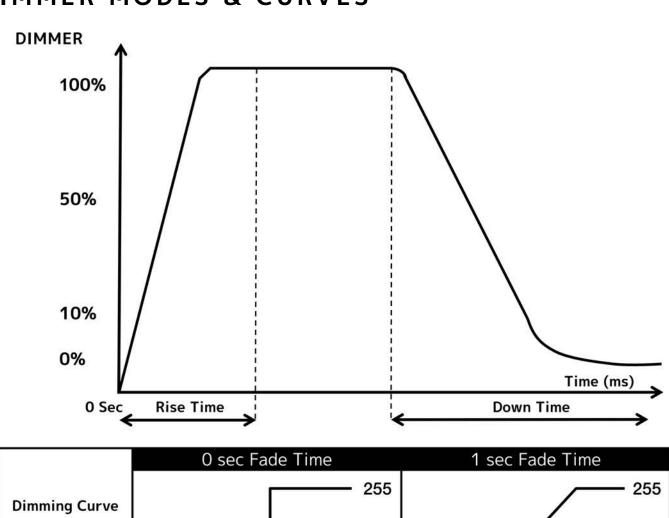
# SYSTEM MENU

MAIN MENU		<b>OPTIONS / VALUES</b> (Default Se	ettings in <b>BOLD</b> )			
	DMX Address	<b>001</b> - 512				
		Standard				
		Extended				
		RGB				
	DMX Mode	RGB Extended				
DMX SETTINGS		CMY				
		CMY Extended				
		Hold Last				
	No DMX Status	Fade to Black				
	Tro Britt Status	Standalone				
	Dimmer	Dimmer 0% - <b>100%</b>				
	CCT	2400K - 8500K (Default = <b>6000</b> l	<b>K</b> )			
	Green Shift	-100% ~ +100% (Default = <b>0</b> )	K)			
	Virtual Color	See Color Macros				
STANDALONE	VII Luai Coloi	Red 0-255				
		Green 0-255				
		Blue 0-255				
	Manual Control	Mint 0-255				
		Amber 0-255 0-255				
	Dulman					
	Primary	On / Off				
	Secondary	On / Off				
	Select Signal	DMX or Aria				
		Aria IN and DMX OUT	lovioss			
	Aria Settings	Aria Enable	ON/OFF			
		Set Aria Channel 0-14				
		Standard				
		Stage				
		TV				
	Dim Modes	Architectural				
		Theatre				
		Stage 2				
		Dim Speed	Os - 10s (Default = <b>0.1s</b> )			
PERSONALITY	Dim Curves	Linear, Square, Square Inverse, <b>S</b> -				
	LED Refresh Rate	900Hz - 1500Hz ( <b>1200 Hz</b> ), 250 10KHz, 15kHz, 20KHz, 25KHz	0Hz, 4000Hz, 5000Hz, 6000Hz,			
	LED Power Limit	50%, 60%, 70%, 80%, 90%, <b>100%</b>				
	Fan Mode	Auto, High, Low, Studio, Mute				
		Screen Delay	10s - 5min (Default = <b>1 min</b> )			
	Display	Screen Lock	<b>Off</b> , 10s - 5 min			
		Rotate Display	Yes / <b>No</b> / Auto			
			Red 000 - 255			
			Green 000 - 255			
	Service	Calibration	Blue 000 - 255			
	(Passcode= <b>050</b> )		Mint 000 - 255			
			Amber 000 - 255			
		Factory Restore	Yes / <b>No</b>			
	l	I actory heatore	103 / 110			

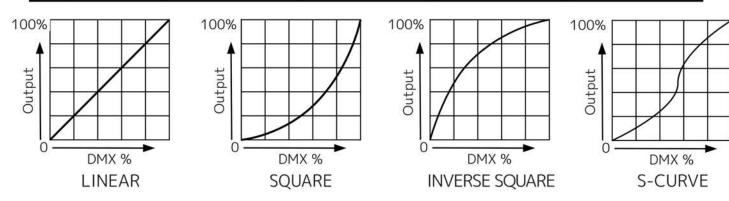
# SYSTEM MENU

MAIN MENU		<b>OPTIONS / VALUES</b> (Defa	ault Settings in <b>BOLD</b> )			
	Life Time					
	Last Run Time					
	Time Reset	Time Reset Passcode= <b>038</b>				
		Current				
	Temperature	Max Resettable				
		Reset	Passcode= <b>038</b>			
INFORMATION		Red				
	DMX Values	Green				
	Product IDs	RDM UID				
	Funan Cadaa	Fixture Errors				
	Error Codes	Reset Error Log	Yes / <b>No</b> (Passcode= <b>050</b> )			
	Software Version	า				

# **DIMMER MODES & CURVES**



	0 sec Fa	de Time	1 sec Fade Time		
Dimming Curve Ramp Effect	o ———	255	0	255	
	Rise Time (ms)	Down Time (ms)	Rise Time (ms)	Down Time (ms)	
Standard (default)	0	0	0	0	
Stage	780	1100	1540	1660	
TV	1180	1520	1860	1940	
Architectural	1380	1730	2040	2120	
Theatre	1580	1940	2230	2280	
Stage 2	0	1100	0	1660	



Standard	Extended	RGB	RGB Extended	СМҮ	CMY Extended	DMX Values	Function	Snap	Defau Value
1	1	1	1			0-255	<b>Red</b> , 0 → 100%		0
	2		2			0-255	Red Fine, Fine Adjustment		0
2	3	2	3				<b>Green</b> , 0 → 100%		0
	4		4			0-255	<b>Green Fine</b> , Fine Adjustment		0
3	5	3	5				Blue, 0 → 100%		0
	3		6				Blue Fine, Fine Adjustment		0
4	7						Mint, 0 → 100%		0
	8						Mint Fine, Fine Adjustment		0
5	9					0-255	<b>Amber</b> 0 → 100%		0
	10						Amber Fine, Fine Adjustment		0
	10			1	1		Cyan, 0 → 100%		0
				'	2		Cyan Fine, Fine Adjustment		0
				2	3		Magenta, 0 → 100%		0
					4		Magenta Fine, Fine Adjustment		0
				3					0
					5		Yellow, 0 → 100%		
					6	0-255	Yellow Fine, Fine Adjustment		0
						0.07	Variable CCT		0
6	11	4	7	4	7	0-23	Open		
							2400K → 8500K (See Sheet)		
						86-255	8500K		
							Color		
						0	Open		
						1-179	Virtual Swatch Book (See Sheet)		
							Scroll		
						180-201	Clockwise Fast → Slow		
_		_		_		202-207	Stop		
7	12	5	8	5	8	208-229	Counter-clockwise Slow → Fast		0
						230-234	Open		
							Random Slots		
						235-239	Fast		
						240-244	Medium		
						245-249	Slow		
						250-255	Open		
							Green Shift		
						0	Idle		
	13		9		9		Full Minus Green to Neutral		0
							Neutral White	!	
							Neutral to Full Plus Green	-	
						129-233	CCT Crossfade		
						0	CCT		
	14		10		10	0			0
							Blend CCT → Color Mix		
						255	Color Mix		

Standard		RGB	RGB Extended	CMY	CMY Extended	DMX Values	Function	Snap	Default Value													
			Exterioed		Exteriaed	values	Rotating Gobo Wheel		value													
						0-9	Open															
						10-19	Rotating Gobo 1															
						20-29	Rotating Gobo 2															
						30-39	Rotating Gobo 3															
						40-49	Rotating Gobo 4															
						50-59	Rotating Gobo 5															
						60-69	Rotating Gobo 6															
						70-89	Gobo 1 Shake Slow → Fast															
8	15	6	11	6	11	90-109	Gobo 2 Shake Slow → Fast		0													
							Gobo 3 Shake Slow → Fast															
							Gobo 4 Shake Slow → Fast															
							Gobo 5 Shake Slow → Fast															
							Gobo 6 Shake Slow → Fast															
						170 102	Scroll															
						100-221	Clockwise Fast → Slow															
						222-223																
							Counter-clockwise Slow → Fast															
						224-255	Rotating Gobo Index/ Rotation															
						0-127	Index Position															
						0-127	Rotate															
9	16	7	12	7		120 100	Clockwise Fast → Slow		0													
						190-193	Counter-clockwise Slow → Fast															
10	17	8	13	8		0-255	Rotating Gobo Index/ Rotation Fine Fine Adjustment		0													
							Fixed Gobo															
						0-9	Open															
													10-19	Gobo 1								
											i											
						30-39	Gobo 3															
						40-49	Gobo 4															
						50-59	Gobo 5															
						60-69	Gobo 6															
						70-77	Gobo 7															
						78-93	Gobo 1 shake slow to fast															
11	18	9	14	9	14		Gobo 2 shake slow to fast	Χ	0													
							Gobo 3 shake slow to fast															
							Gobo 4 shake slow to fast															
							Gobo 5 shake slow to fast															
							Gobo 6 shake slow to fast															
						1/4-189	Gobo 7 shake slow to fast	_														
						400 00:	Scroll															
							Clockwise Fast → Slow															
						222-223	-															
						224-255	Counter-clockwise Slow → Fast															

	IKA								
Standard	Extended	RGB	RGB Extended	CMY	CMY Extended	DMX Values	Function	Snap	Default Value
							Prism		
İ						0-5	Open		
12	19	10	15	10	15	6-31	Prism 1	Х	0
i	. ,	. 0					Prism 2	1 /	
İ						128-255		1	
						120 233	Prism Index/ Rotation		
						0-127	Index Position	1	
						0-127	Rotate	-	
13	20	11	16	11	16	128-180	Clockwise Fast → Slow	-	64
						190-193		-	
1							Counter-clockwise Slow → Fast	1	
14	21	12	17	12	17		Focus, Infinity → Near		127
15	22	13	18	13	18		Focus Fine, Fine Adjustment		127
16	23	14	19	14	19		<b>Zoom</b> , Narrow → Wide		127
17	23	15	20	15	20		<b>Zoom Fine</b> , Fine Adjustment		127
17	24	15	20	15	20	0-255	Strobe		127
						0-31		-	
							Closed	-	
1							Open	-	
4.0	25	4.6	24	4.6	24		Strobe effect slow to fast	-	F0
18	25	16	21	16	21	96-127		-	50
							Pulse Effect	-	
						160-191		_	
							Random Slow → Fast	_	
	2.1			4 =		224-255			
19	26	17	22	17	22		Dimmer, 0 → 100%		0
20	27	18	23	18	23	0-255	Dimmer Fine, Fine Adjustment Dim Modes	X	0
	28		24		24	61-80 81-100 101-120 121 122 123 124 125 126 127 128 129			0
						133 134 135 136 137 138 139	2.0s 3.0s 4.0s 5.0s 6.0s 7.0s 8.0s 9.0s 10s		

	Extended	RGB	RGB Extended	СМҮ	CMY Extended	DMX Values	Function	Snap	Default Value
21	29	19	25	19	25	0-255	Frost, Open → Closed		0
							Animation Wheel		
22	30	20	26	20	26	0-7	Open	_	0
						8-255	Animation Min → Max		
							Animation Index/ Rotation	_	
						0-127	Index Position	_	
23	31	21	27	21	27		Rotate	_	64
							Clockwise Fast → Slow	_	
						190-193		1	
						194-255	Counter-clockwise Slow → Fast		
							Control	1	
						0-19	Wheel Snap	_	
						20-39	Wheel Fade	_	
							Fan Mode	_	
						40-44	Studio		
							Mute		
						50-59	Low		
							High		
						70-79	Auto (default)		
							Reset		
						80-84	AII		
						85-90	Idle	1	
						91-93	Gobo	1	
							Focus and Zoom	1	
						97-99	Other	1	
							Refresh Rate (Hz)	1	
						100	900	1	
						101	910	1	
						102	920	1	
						103	930	1	
						104	940	1	
24	32	22	28	22	28	105	950	X	0
						106	960	-	
						107	970	-	
						107	980	-	
						109	990	-	
						110	1000	-	
						111	1010	-	
							1020	-	
						112		-	
						113	1030	-	
						114	1040	-	
						115	1050	-	
						116	1060	-	
						117	1070	_	
						118	1080	_	
						119	1090	1	
						120	1100		
						121	1110		
						122	1120		
						123	1130		
						124	1140		
			1			125	1150	7	

Standard	Extended	RGB	RGB Extended	СМҮ	CMY Extended	DMX Values	Function	Snap	Default Value
						126	1160		
						127	1170		
						128	1180		
						129	1190		
						130	1200 (default)		
						131	1210		
						132	1220		
						133	1230		
						134	1240		
						135	1250		
						136	1260		
						137	1270		
						138 139	1280 1290		
						140	1300		
						141	1310		
						142	1320		
						143	1330		
						144	1340		
						145	1350		
						146	1360		
						147	1370		
						148	1380		
						149	1390		
2.4	7.0	22	20	22	20	150	1400		
24	32	22	28	22	28	151	1410	X	0
						152	1420		
						153	1430		
						154	1440		
						155	1450		
						156	1460		
						157	1470		
						158	1480		
						159	1490		
						160	1500		
						161	2500		
							4000		
						163	5000		
							6000		
						165	10000		
						166	15000	_	
						167	20000	_	
						168	25000	$\dashv$	
						169-200		$\dashv$	
							Dimmer Curves	$\dashv$	
						201-210		$\dashv$	
						211-220		$\dashv$	
						221-250	Inverse Square		
						231-240	S-Curve (Default)	_	
						241-255	liaie		

Standard 1	Extended	RGB	RGB	CMV	CMY	DMX		_	Dofoult
1			Extended	CMY	Extended	Values	Function	Snap	Default Value
	1	1	1			0-255	<b>Red</b> , 0 → 100%		0
	2		2			0-255	Red Fine, Fine Adjustment		0
2	3	2	3				<b>Green</b> , 0 → 100%		0
	4		4			0-255	<b>Green Fine</b> , Fine Adjustment		0
3	5	3	5				Blue, 0 → 100%		0
	3		6				Blue Fine, Fine Adjustment		0
4	7						Mint, 0 → 100%		0
	8						Mint Fine, Fine Adjustment		0
5	9						Amber 0 → 100%		0
	10						Amber Fine, Fine Adjustment		0
				1	1		<b>Cyan</b> , 0 → 100%		0
				•	2		Cyan Fine, Fine Adjustment		0
				2	3		Magenta, 0 → 100%		0
					4		Magenta Fine, Fine Adjustment		0
				3	5		<b>Yellow</b> , 0 → 100%		0
					6		<b>Yellow Fine</b> , Fine Adjustment		0
						0 233	Variable CCT		
						0-23	Open Open		
6	11	4	7	4	7		2400K → 8500K (See Sheet)		0
						86-255			
						00-233	Color		
						0	Open		
							Virtual Swatch Book (See Sheet)		
							Scroll		
						180-201	Clockwise Fast → Slow		
_		_	_			202-207	Stop		_
7	12	5	8	5	8	208-229	Counter-clockwise Slow → Fast		0
						230-234	Open		
							Random Slots		
						235-239	Fast		
						240-244	Medium		
						245-249	Slow		
						250-255	Open		
							Green Shift		
						0	Idle		
	13		9		9	1-127	Full Minus Green to Neutral		0
						128	Neutral White	1	
						129-255	Neutral to Full Plus Green	1	
							CCT Crossfade		
			10			0	ССТ		
	14		10		10	1-254	Blend CCT → Color Mix		0
						255	Color Mix		

<b>DMX</b>	IRA	113	<u>- F</u>	K A IY	UNG	MO	DOLE		
Standard	Extended	RGB	RGB Extended	СМҮ	CMY Extended	DMX Values	Function	Snap	Default Value
							Rotating Gobo Wheel		
						0-9	Open		
						10-19	Rotating Gobo 1		
						20-29	Rotating Gobo 2		
						30-39	Rotating Gobo 3		
						40-49	Rotating Gobo 4		
						50-59	Rotating Gobo 5		
						60-69	Rotating Gobo 6		
8	15	6	11	6	11	70-89	Gobo 1 Shake Slow → Fast		0
0	15	O	11	O	11	90-109	Gobo 2 Shake Slow → Fast		U
						110-129	Gobo 3 Shake Slow → Fast		
						130-149	Gobo 4 Shake Slow → Fast		
						150-169	Gobo 5 Shake Slow → Fast		
						170-189	Gobo 6 Shake Slow → Fast		
							Scroll		
						190-221	Clockwise Fast → Slow		
						222-223	Stop		
							Counter-clockwise Slow → Fast		
							Rotating Gobo Index/ Rotation		
						0-127	Index Position		
		_		_			Rotate		_
9	16	7	12	7	12	128-189	Clockwise Fast → Slow		0
						190-193			
							Counter-clockwise Slow → Fast		
10	17	8	13	8	13	0-255	Rotating Gobo Index/ Rotation Fine Fine Adjustment		0
							Fixed Gobo		
						0-9	Open		
						10-19	Gobo 1		
						20-29	Gobo 2		
						30-39	Gobo 3		
						40-49	Gobo 4		
						50-59	Gobo 5		
						60-69	Gobo 6		
						70-77	Gobo 7		
	4.0	0		0		78-93	Gobo 1 shake slow to fast		
11	18	9	14	9	14	94-109	Gobo 2 shake slow to fast	X	0
						110-125	Gobo 3 shake slow to fast		
						126-141	Gobo 4 shake slow to fast		
							Gobo 5 shake slow to fast		
							Gobo 6 shake slow to fast	!	
							Gobo 7 shake slow to fast		
							Scroll		
						190-221	Clockwise Fast → Slow		
						222-223			
							Counter-clockwise Slow → Fast		
						224-233	Confirm - Clockwise 210M -> 1 q2f		

DMX	IKA	115	- 1 6	יואי	IING	141 0	DULE		
Standard	Extended	RGB	RGB Extended	CMY	CMY Extended	DMX Values	Function	Snap	Default Value
							Prism		70.10.0
						0-5	Open	1	
12	19	10	15	10	15	6-31	Prism 1	X	0
							Prism 2	1	
						128-255			
							Prism Index/ Rotation		
						0-127	Index Position		
13	20	11	16	11	16		Rotate		64
13	20	1.1	10	- ' '	10		Clockwise Fast → Slow		04
l						190-193			
							Counter-clockwise Slow → Fast		
14	21	12	17	12	17		<b>Focus,</b> Infinity → Near		127
15	22	13	18	13	18		Focus Fine, Fine Adjustment		127
16	23	14	19	14	19		<b>Zoom,</b> Narrow → Wide		127
17	24	15	20	15	20	0-255	<b>Zoom Fine</b> , Fine Adjustment		127
							Strobe		
l						0-31	Closed		
							Open		
							Strobe effect slow to fast		
18	25	16	21	16	21	96-127			50
							Pulse Effect		
						160-191			
							Random Slow → Fast		
						224-255			
19	26	17	22	17	22		<b>Dimmer</b> , 0 → 100%		0
20	27	18	23	18	23	0-255	<b>Dimmer Fine</b> , Fine Adjustment		0
							Dim Modes	Χ	0
						0-20	Standard		
							Stage		
							TV		
							Architectural		
							Theatre		
						101-120			
							Dimmer Delay Time		
						121	0s		
						122	0.1s		
						123	0.2s		
						124	0.3s		
						125	0.4s		
						126	0.5s		
	28		24		24	127	0.6s		
	20		27			128	0.7s		
						129	0.8s		
						130	0.9s		
						131	1.0s		
						132	1.5s		
						133	2.0s		
						134	3.0s		
						135	4.0s		
						136	5.0s		
						137	6.0s		
						138	7.0s		
							8.0s		
						140	9.0s		
						141	10s		
						142-255	ldle		
l									

Standard	Extended	RGB	RGB Extended	СМҮ	CMY Extended	DMX Values	Function	Snap	Default Value
							Iris		
24	20	4.0	25	4.0	2.5	0 – 191	Open → Closed		
21	29	19	25	19	25	192-223	Opening Pulse Fast → Slow		0
						224-255	Closing Pulse Slow → Fast		
22	30	20	26	20	26	0-255	Frost, Open → Closed		0
							Animation Wheel		
23	31	21	27	21	27	0-7	Open	1	О
						8-255	Animation Min → Max		
							Animation Index/ Rotation		
						0-127	Index Position		
2.4	70	22	20	22	20		Rotate		
24	32	22	28	22	28	128-189	Clockwise Fast → Slow		64
						190-193	Stop		
						194-255	Counter-clockwise Slow → Fast		
25	33	23	29	23	29	0-255	Blade 1 A, Open → Closed		0
	34		30		30	0-255	Blade 1 A Fine, Fine Adjustment		0
26	35	24	31	24	31	0-255	Blade 1 B, Open → Closed		0
	36		32		32	0-255	Blade 1 B Fine, Fine Adjustment		0
27	37	25	33	25	33	0-255	Blade 2 A, Open → Closed		0
	38		34		34	0-255	Blade 2 A Fine, Fine Adjustment		0
28	39	26	35	26	35	0-255	Blade 2 B, Open → Closed		0
	40		36		36	0-255	Blade 2 B Fine, Fine Adjustment		0
29	41	27	37	27	37	0-255	Blade 3 A, Open → Closed		0
	42		38		38	0-255	Blade 3 A Fine, Fine Adjustment		0
30	43	28	39	28	39	0-255	Blade 3 B, Open → Closed		0
	44		40		40	0-255	Blade 3 B Fine, Fine Adjustment		0
31	45	29	41	29	41	0-255	Blade 4 A, Open → Closed		0
	46		42		42	0-255	Blade 4 A Fine, Fine Adjustment		0
32	47	30	43	30	43	0-255	Blade 4 B, Open → Closed		0
	48		44		44	0-255	Blade 4 B Fine, Fine Adjustment		0
							Framing Rotation		
						0-126	Min (-60°)		427
						127-128	Parallel (0°)		127
						129-255	Max (+60°)		

<b>DMX</b>	111/7	113		<u>,                                    </u>		140	DOLL		
Standard	Extended	RGB	RGB Extended	CMY	CMY Extended	DMX Values	Function	Snap	Default Value
							Control		
						0-19	Wheel Snap		
						20-39	Wheel Fade		
							Fan Mode		
						40-44	Studio		
						45-49	Mute		
						50-59	Low		
						60-69	High		
						70-79	Auto (default)		
							Reset		
						80-84	AII		
						85-90	Idle		
						91-93	Gobo		
						94-96	Focus and Zoom		
						97-99	Other		
							Refresh Rate (Hz)		
						100	900		
						101	910		
						102	920		
						103	930		
						104	940	1	
					Ī	105	950	1	
7.4	F0	70	4.6	70	4.6	106	960		
34	50	32	46	32	46	107	970	X	0
						108	980		
						109	990		
						110	1000		
						111	1010		
						112	1020		
						113	1030		
						114	1040		
						115	1050		
						116	1060		
						117	1070		
						118	1080		
						119	1090	1	
						120	1100		
						121	1110		
						122	1120		
						123	1130	1	
						124	1140	1	
						125	1150		
						126	1160		
						127	1170		
						128	1180		
						129	1190	1	
						/	1		

א וייו ע	IRAIIS - FRAMING		DMV						
Standard	Extended	RGB	RGB Extended	CMY	CMY Extended	DMX Values	Function	Snap	Default Value
						130	1200 (default)		
						131	1210	]	
						132	1220		
						133	1230	]	
						134	1240	1	
						135	1250		
						136	1260		
						137	1270		
						138	1280	1	
						139	1290	1	
						140	1300		
						141	1310		
						142	1320		
						143	1330	1	
						144	1340		
						145	1350		
						146	1360	1	
						147	1370	1	
						148	1380	1	
						149	1390	-	
						150	1400	-	
						151	1410	-	
						152	1420	-	
34	50	32	46	32	46	153	1430	X	0
						154	1440	1	
						155	1450	-	
						156	1460	-	
						157	1470	-	
						158	1480	-	
						159	1490	-	
						160	1500	-	
						161	2500	-	
						162	4000	-	
							5000	-	
						163		-	
						164	6000	-	
						165	10000	-	
						166	15000	-	
						167	20000	-	
						168	25000	-	
						169-200		-	
						204 515	Dimmer Curves	-	
						201-210		-	
						211-220			
							Inverse Square		
							S-Curve (Default)	_	
						241-255	ldle		

# COLOR TEMPERATURE CHART

DMX VALUE	COLOR TEMPERATURE (K)	DMX VALUE	COLOR TEMPERATURE (K)
24	2400	55	5500
25	2500	56	5600
26	2600	57	5700
27	2700	58	5800
28	2800	59	5900
29	2900	60	6000
30	3000	61	6100
31	3100	62	6200
32	3200	63	6300
33	3300	64	6400
34	3400	65	6500
35	3500	66	6600
36	3600	67	6700
37	3700	68	6800
38	3800	69	6900
39	3900	70	7000
40	4000	71	7100
41	4100	72	7200
42	4200	73	7300
43	4300	74	7400
44	4400	75	7500
45	4500	76	7600
46	4600	77	7700
47	4700	78	7800
48	4800	79	7900
49	4900	80	8000
50	5000	81	8100
51	5100	82	8200
52	5200	83	8300
53	5300	84	8400
54	5400	85	8500

# COLOR MACROS CHART

VALUE	FILTER #	COLOR	VALUE	FILTER #	COLOR
1	7	pale yellow	31	126	mauve
2	103	straw	32	49	medium purple
3	151	gold tint	33	58	lavender
4	100	spring yellow	34	199	palace blue
5	10	medium yellow	35	119	dark blue
6	101	yellow	36	132	medium blue
7	104	deep amber	37	120	deep blue
8	15	deep straw	38	165	daylight blue
9	179	loving amber	39	161	slate blue
10	21	gold amber	40	118	light blue
11	105	orange	41	68	sky blue
12	158	deep orange	42	143	pale navy blue
13	22	dark amber	43	131	marine blue
14	778	millenium gold	44	115	peacock blue
15	135	deep golden amber	45	172	lagoon blue
16	24	scarlet	46	116	medium blue green
17	106	primary red	47	90	dark yellow green
18	26	bright red	48	139	primary green
19	27	medium red	49	122	fern green
20	19	fire	50	89	moss green
21	157	pink	51	124	dark green
22	36	medium pink	52	88	lime green
23	111	dark pink	53	138	pale green
24	128	bright pink	54	203	Quarter CT Blue
25	148	bright rose	55	202	Half CT Blue
26	332	special rose pink	56	201	FULL CT Blue
27	793	vanity fair	57	200	double CT Blue
28	113	magenta	58	206	Quarter CT Orange
29	46	dark magenta	59	205	Half CT Orange
30	48	rose purple	60	204	FULL CT Orange

# **ERROR CODES**

Error C	odes subject to change without notice
ERROR CODES	DESCRIPTION
RotGobo RotGobolndex FixedGobo Animation Zoom Focus Prism1 Prism1Rot Prism2 Prism2Rot LED Fan1 LED Fan3 LED Fan4 HeadFan1 HeadFan1 Gobo Fan1 Gobo Fan1 Gobo Fan2 Base Fan Head Temp LED Temp	Rotating Gobo Error Rotating Gobo Index Error Fixed Gobo Error Animation Error Zoom Error Focus Error Prism1 Error Prism1 Rotation Error Prism2 Error Prism2 Rotation Error LED Fan1 Error LED Fan3 Error LED Fan3 Error LED Fan4 Error HeadFan1 Error HeadFan1 Error HeadFan1 Error HeadFan2 Error Gobo Fan1 Error Gobo Fan2 Error Head Temperature Error LED Temperature Error

## MAINTENANCE GUIDELINES



## DISCONNECT POWER BEFORE PERFORMING ANY MAINTENANCE!

### **CLEANING**

Frequent cleaning is recommended to ensure proper function, optimized light output, and an extended life. The frequency of cleaning depends on the environment in which the fixture operates: damp, smoky or particularly dirty environments can cause greater accumulation of dirt on the fixture's optics. Clean periodically with a soft cloth to avoid dirt/debris accumulation.

**NEVER** use alcohol, solvents, or ammonia-based cleaners.

### **MAINTENANCE**

Regular inspections are recommended to insure proper function and extended life. There are no user serviceable parts inside this fixture. Please refer all other service issues to an authorized Elation service technician. Should you need any spare parts, please order genuine parts from an authorized Elation dealer.

Please refer to the following points during routine inspections:

- A detailed electrical check by an approved electrical engineer every three months, to make sure the circuit contacts are in good condition and prevent overheating.
- Be sure all screws and fasteners are securely tightened at all times. Loose screws may fall out during normal operation, resulting in damage or injury as larger parts could fall.
- Check for any deformations on the housing, color lenses, rigging hardware and rigging points (ceiling, suspension, trussing). Deformations in the housing could allow for dust to enter into the fixture. Damaged rigging points or unsecured rigging could cause the fixture to fall and seriously injure a person(s).
- Electric power supply cables must not show any damage, material fatigue or sediments.

## **SPECIFICATIONS**

#### **SOURCE**

305W 6,500K RGBMA LED Engine 30,000 Hour Average LED Life\*

\*Test lab conditions. May vary depending on several factors including but not limited to: Environmental Conditions, Power/Voltage, Usage Patterns (On-Off Cycling), Control, and Dimming.

### PHOTOMETRIC DATA

10,600 Total Lumen Output CRI 92 Zoom Range 7° - 50°

#### **EFFECTS**

Motorized Zoom Variable Frost Filter 4 Facet Round, 4 Facet Linear Prism Variable 16-bit Dimming Curve Modes High Speed Electronic Shutter and Strobe Optional Framing/Iris Module

#### **COLOR**

RGBMA Color Array CMY and RGB Emulation Modes Virtual Color Temperature 2400-8500K Green/Magenta Shift Virtual Gel Swatch Book

### **GOBOS**

1x 6 Rotating / Indexing Glass Gobos 1x 7 Fixed Glass Gobo Animation Wheel

### **CONTROL / CONNECTIONS**

6 DMX Channel Modes (24/32) RGB or CMY (22/28) 6 DMX Channel Modes (Framing) (34/50) RGB or CMY (32/46)

16-bit Dimming Control
DMX Adjustable LED Frequency
DMX, RDM Protocol Support
4 Button Touch Control Panel
IP65 5pin DMX In/Out

IP65 Locking Power Cable In/Out

#### SIZE / WEIGHT

Length (Fixture Body): 9.5" (242.0mm) Length (Yoke 90°): 17.4" (442.5mm)

Width: 17.5" (445.5mm) Height: 23.6" (559.2mm)

Height (Yoke 0°): 26.1" (662.9mm)

Weight: 51.1 lbs (23.2kg)

Weight (with Framing Module) 55.1lbs (25kg)

### **ELECTRICAL / THERMAL**

AC 100-240V - 50/60Hz 448W Max Power Consumption Power Thru Capacity: 11A (2 units @ 115V, 5 units @ 240V) 14°F to 113°F (-10°C to 45°C) BTU/hr (+/- 10%) 1406.7

#### **INCLUDED ITEMS**

IP65 Locking Power Cable

#### **OPTIONAL ITEMS**

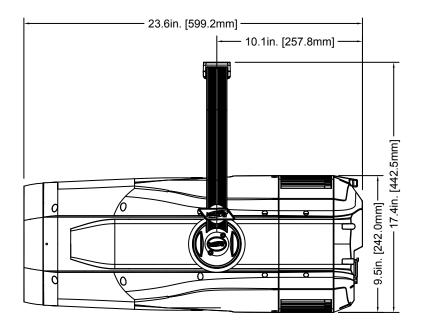
Motorized Framing and Iris Module

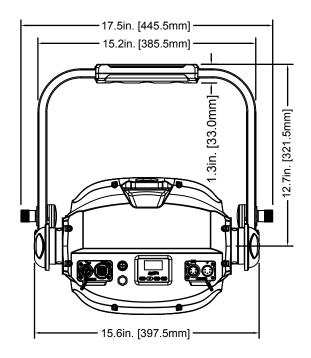
### **APPROVALS / RATINGS**

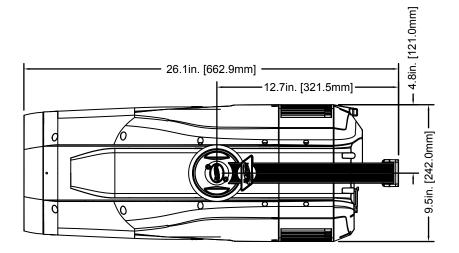
CE | cETLus | IP65 | FCC | UKCA

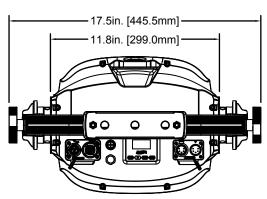
Specifications and documentation subject to change without notice.

## **DIMENSIONAL DRAWINGS**









### ORDERING INFORMATION

SKU US/EU	ITEM DESCRIPTION
KLS445/1236100189	KL SPOT IP
KLS556	KL SPOT IP FRAMING MODULE



#### FCC STATEMENT

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

### FCC RADIO FREQUENCY INTERFERENCE WARNINGS & INSTRUCTIONS

This product has been tested and found to comply with the limits as per Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This device uses and can radiate radio frequency energy and, if not installed and used in accordance with the included instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this device does cause harmful interference to radio or television reception, which can be deter- mined by turning the device off and on, the user is encouraged to try to correct the interference by one or more of the following methods:

- Reorient or relocate the device.
- ncrease the separation between the device and the receiver.
- Connect the device to an electrical outlet on a circuit different from which the radio receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

### Energy Saving Matters (EuP 2009/125/EC)

Saving electric energy is a key to help protecting the environment. Please turn off all electrical products when they are not in use. To avoid power consumption in idle mode, disconnect all electrical equipment from power when not in use. Thank you!