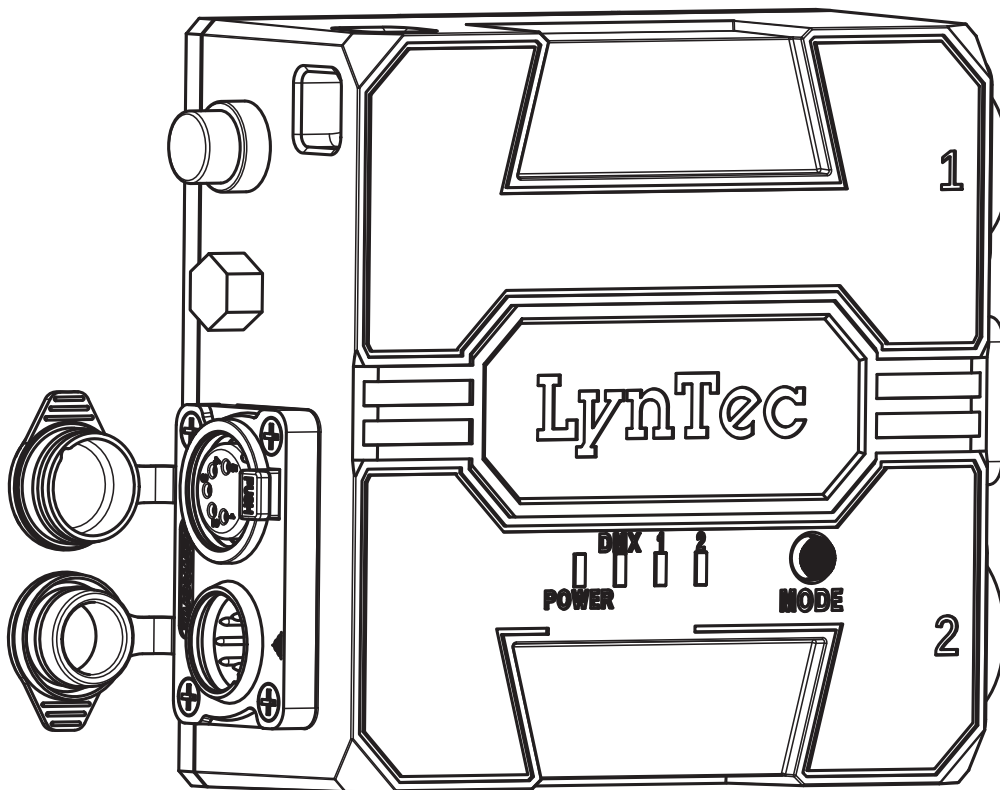


DMX Dual-Relay

User Manual



Model ID: DMXDUALRELAY

LynTec

Edition Notes

The DMX Dual Relay User Manual includes a description, safety precautions, installation, programming, operation, and maintenance instructions for the DMX Dual Relay as of the release date of this edition.

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Document Printing

For best results, print this document in color, on letter size paper (8.5 x 11 in), double-sided. If using A4 paper (210 x 297 mm), configure the printer to scale the content accordingly.

Intended Audience

Any person installing, operating, and/or maintaining this product should completely read through the guide that shipped with the product, as well as this manual, before installing, operating, or maintaining this product.

Disclaimer

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Document Revision

Go to lyntec.com for the latest version.

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1. Before You Begin

What Is Included

- DMX Dual Relay
- Seetronic Powerkon IP65 power cable
- Quick Reference Guide

Claims

Carefully unpack the product immediately and check the container to make sure all the parts are in the package and are in good condition.

If the box or the contents (the product and included accessories) appear damaged from shipping, or show signs of mishandling, notify the carrier immediately, not LynTec. Failure to report damage to the carrier immediately may invalidate a claim. In addition, keep the box and contents for inspection.

For other issues, such as missing components or parts, damage not related to shipping, or concealed damage, file a claim with LynTec within 7 days of delivery.

Text Conventions

Convention	Meaning
1–512	A range of values
50/60	A set of values of which only one can be chosen
Settings	A menu option not to be modified
<ENTER>	A key to be pressed on the product's control panel

Symbols

Symbol	Meaning
	Critical installation, configuration, or operation information. Not following these instructions may make the product not work, cause damage to the product, or cause harm to the operator.
	Important installation or configuration information. The product may not function correctly if this information is not used.
	Useful information.



Any reference to data or power connections in this manual assumes the use of Seetronic IP-rated cables.



The term “DMX” used throughout this manual refers to the USITT DMX512-A digital data transmission protocol.

Connection of the control signal: DMX line

- The product has XLR sockets for DMX input and output.
- Notice: This control circuit is isolated and belongs to the Class 2 data port.

The control circuit has a cumulative leakage current of less than 3.5 mA.

Safety Notes

Read all the following safety notes before working with this product. These notes contain important information about the installation, usage, and maintenance of this product.



This product contains no user-serviceable parts. Any reference to servicing in this User Manual will only apply to properly trained, certified technicians. Do not open the housing or attempt any repairs.



All applicable local codes and regulations apply to proper installation of this product.

- The product is intended for professional use only.
- **CAUTION:**
 - This product's housing may be hot when operating. Mount this product in a location with adequate ventilation, at least 20 in (50 cm) from adjacent surfaces.
 - When transferring the product from extreme temperature environments, (e.g., cold truck to warm humid ballroom) condensation may form on the internal electronics of the product. To avoid causing a failure, allow the product to fully acclimate to the surrounding environment before connecting it to power.
- **ALWAYS:**
 - Disconnect from power before cleaning the product or replacing the fuse.
 - When using an IP65-rated product in an outdoor environment, use IP65- (or higher) rated power and data cable.
 - Replace and secure IP-rated protective covers to all power, data, USB, or other ports when not in use.
 - Replace the fuse with the same type and rating.
 - Use a safety cable when mounting this product overhead.
 - Connect this product to a grounded and protected circuit.
- **DO NOT:**
 - Open this product. It contains no user-serviceable parts.
 - Look at the light source when the product is on.
 - Leave any flammable material within 50 cm of this product while operating or connected to power.
 - Connect this product to a dimmer or rheostat.
 - Submerge this product (adhere to standards for the published IP rating). Regular outdoor operation is fine.
 - Permanently install outdoors in locations with extreme environmental conditions. This includes, but is not limited to:
 - Locations where normal temperatures exceed the temperature ranges in this manual.
 - Locations that are prone to flooding or being buried in snow.
 - Other areas where the product will be subject to extreme radiation or caustic substances.
 - The minimum startup temperature is -4°F (-20°C). Do not start the product at lower temperatures.
 - The minimum operating temperature is -22°F (-30°C). Do not operate the product at lower temperatures.
 - To eliminate unnecessary wear and improve its lifespan, during periods of non-use completely disconnect the product from power via breaker or by unplugging it.
 - In the event of a serious operating problem, stop using immediately.



If this LynTec product requires service, contact LynTec Technical Support.

FCC Statement of Compliance

This device complies with Part 15 Part B 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.

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

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

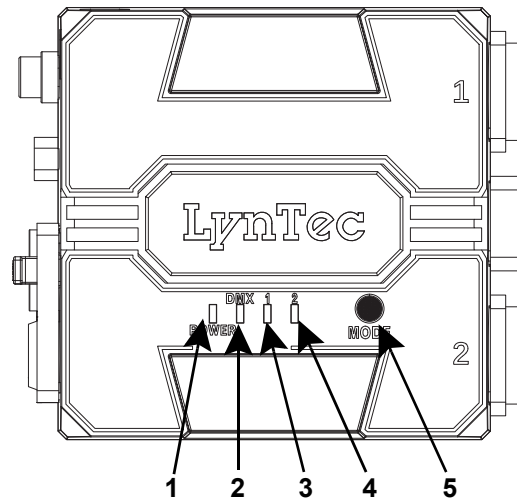
Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

2. Introduction

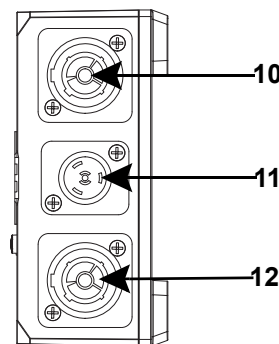
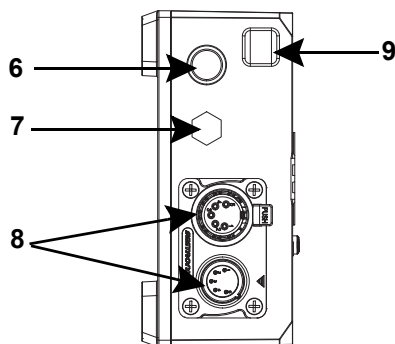
Features

- Weather-proof, IP65-rated robust dual-channel relay designed for professional environments
- Remotely powers on or off connected fixtures via DMX or RDM
- 2 oversized mechanical relays ensure no interruption of power
- Voltage throughput from 100 – 240 volts, voltage in equals voltage out
- Seetronic Powerkon input/output connections for power linking

Product Overview



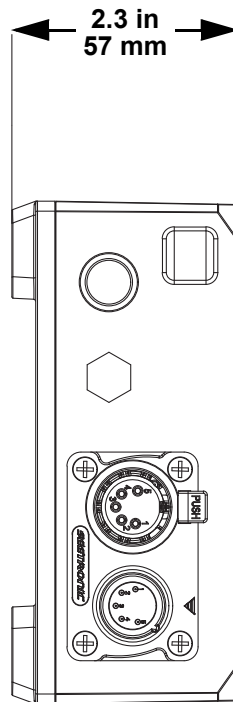
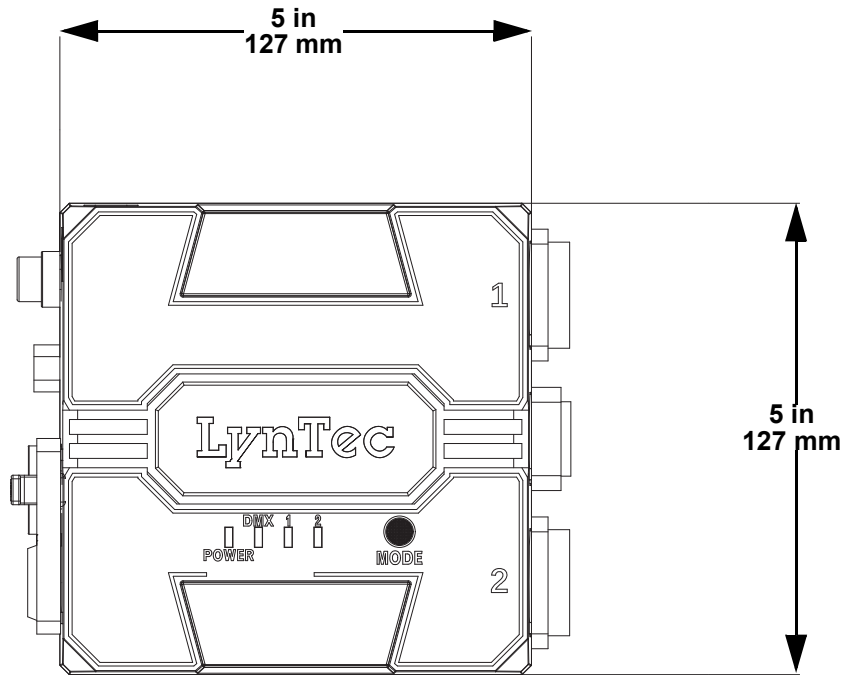
#	Name	#	Name
1	Power LED indicator	7	Condensation valve
2	DMX/RDM LED indicator	8	DMX in/out
3	Output power 1 indicator	9	Safety cable pass-thru
4	Output power 2 indicator	10	Power out 1
5	Mode selector button	11	Power in
6	Fuse holder	12	Power out 2



LED Indicators

Power LED indicator	Illuminates when power is detected. Blinks when mode is switched
DMX LED indicator	Blinks red when DMX is detected, blinks green when RDM is detected.
Output power 1 indicator	Indicates output 1 is in use
Output power 2 indicator	Indicates output 2 is in use

Product Dimensions



3. Setup

AC Power

The DMX Dual Relay has an auto-ranging power supply and it can work with an input voltage range of 100 to 240 VAC, 50/60 Hz.

To determine the product's power requirements (circuit breaker, power outlet, and wiring), use the current value listed on the label affixed to the product's back panel, or refer to the product's specifications chart.

The listed current rating indicates the product's average current draw under normal conditions.



- **Always connect the product to a protected circuit (a circuit breaker or fuse). Ensure the product has an appropriate electrical ground to avoid the risk of electrocution or fire.**
- **To eliminate unnecessary wear and improve its lifespan, during periods of non-use completely disconnect the product from power via breaker or by unplugging it.**



Never connect the product to a rheostat (variable resistor) or dimmer circuit, even if the rheostat or dimmer channel serves only as a 0 to 100% switch.

AC Plug

The DMX Dual Relay comes with a power input cable terminated with a Seetronic Powerkon A connector on one end and an Edison plug on the other end (U.S. market). If the power cable which came with the product has no plug, or if it is necessary to change the plug, use the table below to wire a plug.

Connection	Wire (U.S.)	Wire (Europe)	Screw Color
AC Live	Black	Brown	Yellow or Brass
AC Neutral	White	Blue	Silver
AC Ground	Green/Yellow	Green/Yellow	Green

Fuse Replacement

1. Disconnect this product from the power outlet.
2. Using a Philips-head screwdriver, unscrew the fuse holder cap from the housing.
3. Remove the blown fuse and replace with another fuse of the same type and rating (T 20A, 250 V for US, T 16 A, 250 V for EU).
4. Screw the fuse holder cap back in place and reconnect power.

Power Linking

It is possible to power link DMX Dual Relay products. See the table below for the current draw at each voltage and frequency:

US version	100 V	120 V	208 V	230 V	240 V
Output Power	20 A	20 A	20 A	20 A	20 A
EU version	100 V	120 V	208 V	230 V	240 V
Output Power	16 A	16 A	16 A	16 A	16 A

Never exceed the rated current between all outputs. Power-linking cables can be purchased separately.

DMX Linking

The DMX Dual Relay can link to a DMX controller using a 5-pin DMX connection. For more information about DMX, read the DMX primer at:

https://www.chauvetprofessional.com/wp-content/uploads/2016/06/DMX_Primer.pdf.

Mounting

Before mounting the product, read and follow the safety recommendations indicated in the [Safety Notes](#).

Orientation

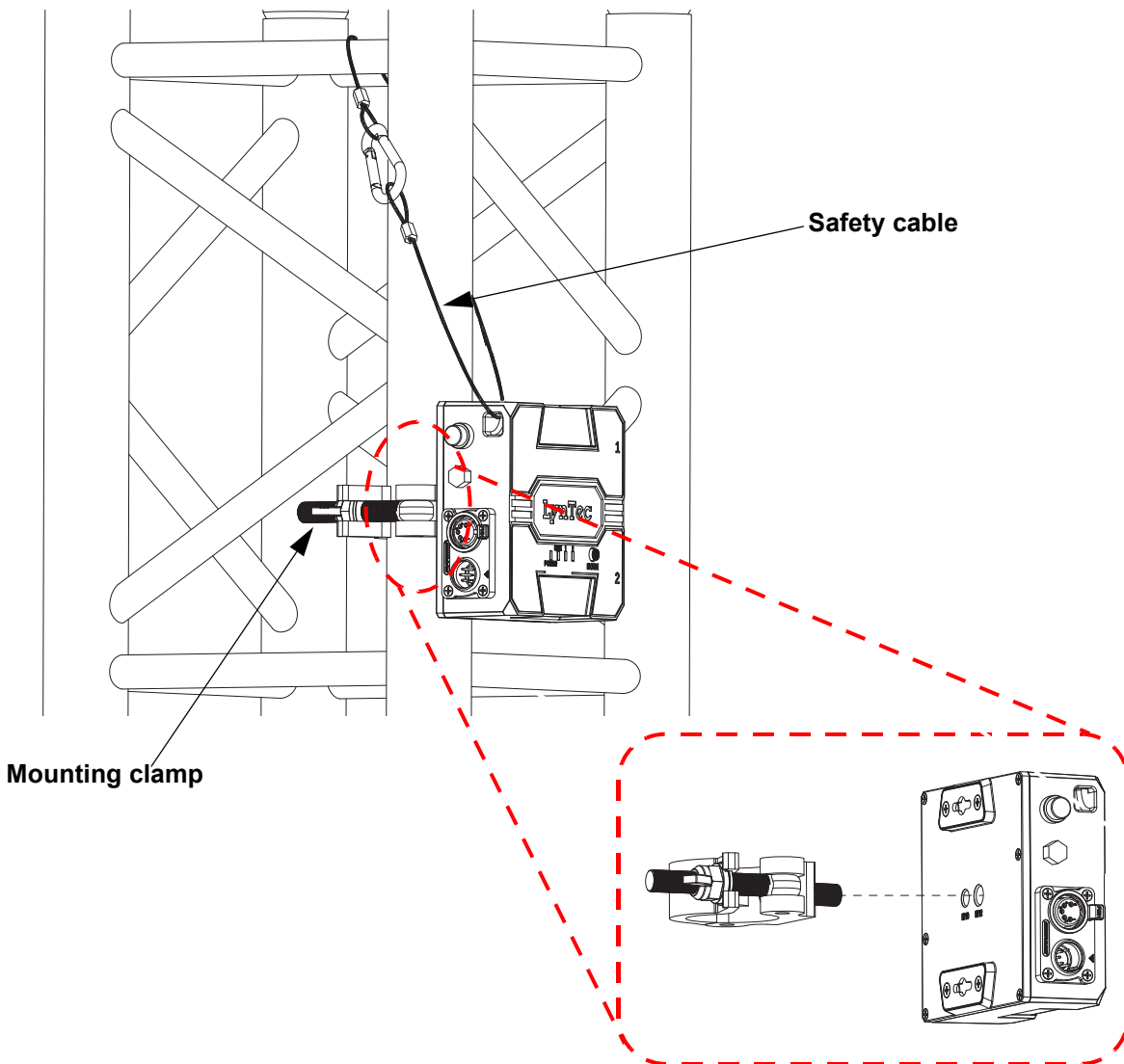
Always mount this product in a safe position, making sure there is adequate room for ventilation, configuration, and maintenance.

Rigging

LynTec recommends using the following general guidelines when mounting this product.

- Before deciding on a location for the product, make sure there is easy access to the product for maintenance and programming purposes.
- Make sure that the structure and attachment points can support the weight before hanging the product (see the [Technical Specifications](#) for weight information).
- When mounting the product overhead, always use a safety cable. Mount the product securely to a rigging point, whether an elevated platform or a truss.
- When rigging the product onto a truss, use a mounting clamp of appropriate weight capacity. For the Chauvet line of mounting clamps, go to <http://trusst.com/productcategory/truss-clamps>.
- When power linking multiple products, mount the products close enough for power-linking cables to reach.

Mounting Diagram



Overhead mounting

4. Operation

Control Options

The DMX Dual Relay has 5 DMX personality modes. Each personality dictates how much DMX input is required for product output.

Programming

The DMX Dual Relay has a **<MODE>** button which cycles through the product's 5 personalities. To cycle through the product's 5 personalities:

- Press **<MODE>** repeatedly.
- The power LED will blink the number of times that corresponds to the mode number.

DMX Personality Mode

#	Name	Function
1	Sense	Output begins when DMX/RDM signal is detected. Default 5 minute timeout.
2	Split	Output function begins at 51% DMX input.
3	Zero	Output function begins at DMX value 1.
4	Custom	Output function begins at user configured DMX value. Default: Off under 25%, On above 75%.
5	Direct RDM	RDM controls output function directly



Sense and Custom modes can be configured via RDM.

RDM PIDs

Remote Device Management, or RDM, is a standard for allowing DMX-enabled devices to communicate bi-directionally along existing DMX cabling. The DMX Dual Relay supports RDM protocol that allows changes to be made to the device using specific parameter identifiers (PID). Use the table below to select the desired PID.

#	PID	Title	Value	Description
1	8000	Off delay	60–1800	Amount of seconds the relays remain active after losing DMX signal
2	8008	On delay	1–30	Amount of seconds the relays remain off after detecting DMX signal
3	8010	Turn on threshold	1–255	DMX value needed to trigger the corresponding relay on
4	8011	Turn off threshold	0–254	DMX value needed to trigger the corresponding relay off
5	8020	Output 1 status	0–1	Turn output 1 on (1) or off (0)
6	8021	Output 2 status	0–1	Turn output 2 on (1) or off (0)



- Off delay and On delay are only active in Sense mode
- Turn on threshold and Turn off threshold are only active in Custom mode
- Output 1 status and Output 2 status are only active in Direct RDM mode

5. Maintenance

Product Maintenance

Dust build-up reduces performance and can cause overheating. This can lead to reduction of the product's life and/or mechanical wear. To maintain optimum performance and minimize wear, clean the product at least twice a month. However, be aware that usage and environmental conditions could be contributing factors to increase the cleaning frequency.

To clean the product, follow the instructions below:

1. Unplug the product from power.
2. Use a vacuum (or dry compressed air) and a soft brush to remove dust collected on the external surface.
3. Clean all surfaces with a mild soap solution or isopropyl alcohol.
4. Apply the solution directly to a soft, lint free cotton cloth.
5. Softly drag any dirt or grime away all surfaces.
6. Gently clean all surfaces until they are free of haze and lint.

6. Technical Specifications

Dimensions and Weight

Length	Width	Height	Weight
5 in (127 mm)	2.3 in (57 mm)	5 in (127 mm)	1.1 lb (0.5 kg)

Note: Dimensions in inches are rounded.

Power

Power Supply Type	Range	Voltage Selection
Switching (internal)	100 to 240 VAC, 50/60 Hz	Auto-ranging

Parameter	100 V, 60 Hz	120 V, 60 Hz	208 V, 60 Hz	230 V, 50 Hz	240 V, 50 Hz
Operating Current	20 A	20 A	20 A	20 A	20 A
Power Linking Current	20 A	20 A	20 A	20 A	20 A
Power Linking Current (EU)	16 A	16 A	16 A	16 A	16 A
Fuse (US)	20 A, 250 V	20 A, 250 V	20 A, 250 V	20 A, 250 V	20 A, 250 V
Fuse (EU)	16 A, 250 V	16 A, 250 V	16 A, 250 V	16 A, 250 V	16 A, 250 V

Power I/O	U.S./Worldwide	UK/Europe
Power Input Connector	Seetronic Powerkon IP65	Seetronic Powerkon IP65
Power Output Connector	Seetronic Powerkon IP65	Seetronic Powerkon IP65
Power Cable plug	Edison	Local plug

Thermal

Maximum External Temperature
113 °F (45 °C)

Control

DMX I/O Connector	Channel Range
5-pin XLR	1, 2

Ordering

Product Name	Item Name	Item Code	UPC Number
DMX Dual Relay (120)	DMXDUALRELAY	10082704	781462230524
DMX Dual Relay (230)	DMXDUALRELAY	10082781	781462231293



Contact Us

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Warranty & Returns

For warranty terms and conditions and return information, please visit our website.

For customers in the United States and Mexico: www.chauvetlighting.com/warranty-registration.

For customers in the United Kingdom, Republic of Ireland, Belgium, the Netherlands, Luxembourg, France, and Germany: www.chauvetlighting.eu/warranty-registration.