

AURA

Compar Kit FX1 Complete light set with effects



User manual

The information in this user manual is subject to change at any time without notice.

Version: 1.0 Date of creation and author's initials: 30-04-2018 RV Revision date and author's initials: -

Introduction

Thank you for purchasing the Ayra Compar Kit FX1. This extremely-versatile light set can be used for any light show thanks to its four spotlight fixtures that can be aimed wherever you want and its wide assortment of light effects. This manual provides all the information you need in order to use this product to its full potential.

We advise that you read this user manual in its entirety before unpacking the contents of the box, so that you are familiar with all of the functionality that this product has to offer. Please be sure to check that all of the parts and accessories listed below under 'Box contents' are included in the package. In the event that the Compar Kit FX1 does not function properly, or if you have any issues while operating it, please remove the plug from the power socket and contact your dealer for assistance.

Box contents:

- flight bag with Compar Kit FX1 basic set (bar with four spotlights and stroboscope LEDs)
- flight bag with light stand + separate light stand pole
- foot controller with connection cable
- bag with remote control and mounting hardware (1x small knob with ring, 2x large knobs with ring)
- 2x LED Derby light effect with fixed cable
- 1x laser effect with fixed cable
- IEC C13 to Schuko connection cable (2 metres)

Please inspect the device and the included accessories.

Should you discover that either the device or one or more of the included parts have been damaged or rendered defective while in transit, please contact your dealer directly.

Please note that the pictures in this user manual serve illustrative purposes only and may differ slightly from the product you receive.

AYRA

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Safety instructions



WARNING!



Keep this device away from moisture, water and rain to avoid the chance of electric shocks.



WARNING!



Only connect this device to a suitable power socket. This device functions on a specific power voltage. If it is plugged into a power socket with a different voltage, it could result in permanent damage and even dangerous situations such as fire or electric shocks.



WARNING!



Be careful when operating this device. Touching the wires that are connected to the mains, inside or outside the device, could result in electric shocks.

WARNING!

This product comes with a laser light effect. If used incorrectly, lasers can cause permanent damage to the eyes. A distance of at least **30 cm** must be observed at all times between the laser and a person's eyes.

Everyone involved with the installation, operation and maintenance of this device must:

- Be qualified
- Be skilled
- Have read the instructions in this user manual
- Be sure that neither the device nor the included accessories are damaged. Should the device or the included accessories be damaged, please contact your dealer for more information.
- Ensure that the device is in good working condition and is safe to operate. Please follow the advice and instructions as they are described in this user manual.

Damage caused by misuse and/or modifications made to the device are not covered by the warranty. This device does not contain any parts that need to be repaired or replaced by the user. Should maintenance or repairs be necessary, they must be handled by a qualified technician. The light source of this device is not replaceable. If the light source no longer functions, then the entire device needs to be replaced.

Important information regarding health and safety:

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- Do not remove any labels or stickers from this device.
- Do not leave any cables lying around.
- The device should not be opened up, and any hardware or software that may be present should not be modified.
- To achieve optimal performance, inputs on this device should not be fed with a signal higher than necessary.
- The device should only be used indoors; contact with water, rain and moisture should always be avoided. Do not place any objects containing liquid on top of the device.
- Remove the device from any nearby flames or heat sources; do not place it near flammable fluids, gasses or objects.
- Disconnect this device from the power supply if it will not be used for a longer period of time, if maintenance is necessary, or if the device needs to be cleaned.
- Do not pull on the cable to remove a connector, as this could cause damage.
- Do not use any cables other than the ones described in this manual. Do not use defective cables. Please contact your dealer if the included or necessary cables do not function properly with this device.
- Only use this device with a stable AC power supply.
- Only use this device with power from a grounded power source.
- In the event that the device is exposed to extreme temperature changes (e.g. transported through a cold outside environment into a warm indoor environment), it should not be turned on until it has reached room temperature. This is necessary to prevent moisture from forming in the device, which could lead to electric shocks.

Guidelines and operation of this device:

- This device is intended for use by professionals on stage, in theatres, in clubs, and in similar entertainment locations.
- This device is not suitable for use by children, and should always be operated by an adult.
- This device is designed to create light effects for entertainment purposes. It is not suitable for household illumination.
- This device should only be used in a suitable environment where no damage to the device can occur. Do not use the device in moist or dusty environments such as:
 - indoor swimming pools where chlorine is used
 - beaches where there is sand and salt
 - outdoors
 - indoors in spaces where intense heat sources are present, or where it reaches temperature levels that would be considered uncomfortable for a person
- Avoid impacts and collisions during use and transport. Do not transport the device while it is in use. Avoid using excessive force when installing and operating the device.
- The user should become familiar with the functions of the device before using it.
- Should the device not be used in the manner described in this user manual, damages or even injuries could occur. Ayra cannot be held responsible for any injuries or damages that occur as a result of improper use of this product.

Storage and transport:

- This product was designed for mobile use. Please only transport the device in the original packaging, or in a flight case with a suitable foam inlay.
- This device is not designed for permanent (24/7) use. The expected lifespan of the device will not be affected by occasionally turning the device off. Disconnect the device or turn off the power when it is not actively in use.
- If the device will not be used for a longer period of time, it should be disconnected and stored in a dust-free environment.
- Do not expose the device to extreme temperature differences.

Housing

- Inspect the device's housing frequently, and always just before use. Avoid operating the device if there are large dents or cracks, or if screws are missing. Do not use the device if the housing is not in good condition. Contact your dealer or a qualified technician if you are unsure about the state of the device.
- Check the device and the screws for corrosion. Corrosion must not be present on this device. Contact your dealer or a qualified technician if you find any corrosion on the screws.

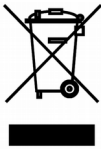

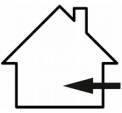
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Every power and signal connector should be securely mounted. Do not use the device if the connectors are not secure.

Avoid dust and dirt build-up. Clean the device once a month by disconnecting it from the power supply and wiping it down with a dry or slightly moist cloth. If the device is used frequently, the cleaning intervals should increase.

Symbol explanation:

	WEEE: Ensure that this device is disposed of properly. This product falls under the WEEE (Waste Electrical and Electronic Equipment) directive. The requirements of this directive apply to all manufacturers and producers of electronic devices in the EU. Do not throw this product away with regular rubbish. Please contact your local authority for more information about how to recycle and dispose of these products in your region. By recycling this product in the proper manner, we can work together to ensure that we can continue to enjoy these kinds of products and still protect the environment as much as possible from pollution.
	CE: The CE logo indicates that this product meets the European norms and requirements to which it must legally conform.
	Only suitable for indoor use: this product was only designed for indoor use. The maximum environmental temperature must not exceed 40 degrees Celsius (104 degrees Fahrenheit).

Battery danger:

Warning!

**Do not ingest the battery.
Risk of injury due to chemical burns.**

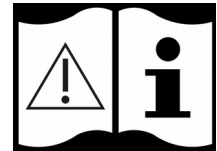
The included remote control comes with a button-cell battery.

If a button-cell battery is ingested, this can cause life-threatening internal burns within just 2 hours and possibly lead to death.

Keep new and used batteries away from children.

If the battery compartment does not close properly, do not use the product and keep it away from children.

If you suspect a battery has been ingested or has otherwise ended up in the body, seek medical attention immediately.



PLEASE NOTE!

Risk of explosion if the battery is not replaced properly.

Only replace the battery with a new battery of exactly the same type.

Do not expose batteries to intense heat from sunlight, open fire, etc.

Do not leave batteries out in high-temperature environments. This could cause an explosion or flammable fluid or gas leaks.

Do not burn batteries or place them in a hot oven. Do not try to shape the battery or make incisions in it, as this could cause an explosion.

Do not expose batteries to extremely low air pressure levels (at high altitudes), as this could cause explosions or fluid or gas leaks.

If equipment has gone unused for an extended period of time (a few months for instance), then the battery should be removed.

Remove empty batteries from the device immediately.

Do not store batteries individually or carry them in your pocket, wallet, or bag. Contact with metal objects

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such as coins and keys can cause leaks, tears, or short circuits.
Keep batteries out of reach of children.

Recycling:

Never throw batteries away with regular rubbish. Batteries contain substances that can be hazardous to the environment. When batteries are recycled properly, they become a valuable source of sustainable material. Contact your local authority for information about how to dispose of batteries in an eco-friendly way.

AYRA

Contact:

Ayra professional lighting products
Verrijn Stuartweg 18
4462 GE Goes
The Netherlands

*Please do not send any products to this correspondence address.
Should you wish to send in a product for repair or for a refund, please contact your dealer for an RMA
(Return Merchandise Authorisation).*

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Guidelines and operation of this device



1. Foot controller - Strobe button
2. Foot controller - Auto button
3. Foot controller - Sound button
4. Foot controller - Blackout button
5. Effect B 2x 10 W RGBW LED Derby light effect
6. Effect A 2x 10 W RGBW LED Derby light effect
7. Red + green grating laser 150 mW
8. 3 W Stroboscope LED
9. flexible gooseneck, hand adjustable
10. LED projector, 12x RGBW 3 W LEDs
11. Effect A lockable connector (5-pin GX-16D connector)
12. C14 power input with fuse holder (100 - 240V AC, 50/60 Hz)
13. C13 link power output (9A maximum)
14. 3-pin XLR input and output for DMX
15. lockable foot controller connector (5-pin GX-16D connector)
16. microphone for sound-controlled operation
17. lockable laser connector (5-pin GX-16D connector)
18. lock for laser (2 keys included)
19. 4-character LED display with menu buttons
20. Effect B lockable connector (5-pin GX-16D connector)

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Operation and mounting

To activate the device, plug it into a mains socket. Once it's connected to an active power source, it will turn on automatically.

During startup, 'ES 4' will be shown on the display and the device cannot be used. As soon as the device is ready to use, it will enter the mode last used. Operation modes and other settings shown on the display can now be adjusted or changed by using the menu buttons.

Should the device detect a DMX signal, it will automatically switch to DMX mode and will display the address last used. For new devices, this will normally be DMX address 001. Of course, you can change the DMX address via the display using the menu buttons.

Using the display and the menu buttons, you can adjust the functions and settings of the device. Press 'enter' to select a function or confirm an adjustment, use 'up' and 'down' to change values and 'menu' to go back to the menu. By holding the 'menu' button down for 2 seconds after saving a specific setting, the device will return to operation mode and the setting will be adopted. This will also be done after any change are made to the operation mode or DMX address. Note that holding the menu button down is not necessary for settings to be adopted as this is done automatically by the device a few seconds after new settings have been confirmed.

The menu contains the following options and functions.

display	Mode	Function
ADDR / A001	DMX address configuration	Address A001 ... A512
CHND	Channel mode selection	3CH/21CH/51CH channel modes
NASL	Slave mode	Master - (NAST) Slave (SL 1)
SH L	Show laser	EL R = Laser random show SH 1-5 = Laser show 1 - 5 OFF = Laser off SPED = Laser speed 1 - 8
SH D	Show laser + Derby	ED R = Laser + derby random show SH 1-6 = Laser + derby show 1-6 OFF = Laser + derby off SPED = Laser derby speed 1 - 8
SH P	Show 4 spotlights + strobe	EP R= Par + strobe random show SH 1-10 = Par + strobe show 1-10 OFF = Strobe off SPED = Par + strobe speed 1 - 8
SH A	Show all effects	EA R = All random show SH 1-5 = All show 1-5 OFF = All off SPED = speed 1 - 8
SOUND	Sound-controlled mode	Mode: ON / OFF
SENS	Sound sensitivity	0 - 100: sensitivity in %
DISP	Display inversion	LCD = ON/OFF INVT = YES/NO
TEST	Test mode	The test program runs through each LED colour one by one to check they are all functioning correctly
TEMP	Temperature in degrees Celsius	0 ~ 9999 temperature indicator
RST	Reset	Reset function (for restarting the device)

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You'll find an explanation of the various functions below:

ADDR: With this function, you can set the DMX start address of the device. Set it to channel 001 and the device will respond to DMX channel 1. Set it to channel 003 and the device will respond to DMX channel 3, etc.

CHND: This device has different DMX channel modes available. With this function, you can choose a concise channel mode if your DMX circuit is reasonably full of equipment and you do not require complete control over the functions. It's also possible to choose the most comprehensive channel mode which makes more channels available that each have separate functions.

NASL: The Master-Slave mode is designed to sync multiple devices. A copy of the internal program is sent to connected devices so that each one projects the same effect. The master-slave function is also wired to the DMX sockets using standard 3-pin XLR cables. The only difference is that the first device in the chain does not receive DMX input.

PLEASE NOTE: When Slave mode is activated, the device will wait for a signal from the Master device. In this case, it is not possible to simply select an automatic or sound-controlled mode! To cancel Slave mode, select 'NAST' mode in the NASL menu, which puts the device in Master mode. Then, all standalone functions can be activated again.

SH: This mode consists of all sorts of automatic programs with adjustable settings that are described below:
SH L: In this mode, only the laser is active.
SH D: In this mode, only the laser and the two derby light effects are active.
SH P: In this mode, only the spotlights and the stroboscope LEDs are active.
SH A: In this mode, all of the effects are active.

Various effects can be selected per show mode. Choosing random means different programs will be played through or you can choose a specific program instead. You can also adjust things like the speed unless you're using the music-controlled program.

SOUN: This setting is used to activate and de-activate the microphone function. The setting is confirmed with an ON or OFF message. When the function is activated, the device will be music-controlled when in standalone mode. When the function is de-activated, the device will return to the speed set by the selected program.

SENS: This mode allows you to determine the sensitivity level of the internal microphone. The further the device is from the speaker, the higher the sensitivity of the microphone needs to be so it can react properly to the music. The microphone is built to handle high sound pressure levels, but loud music combined with a high level of microphone sensitivity will make it more difficult for the device to detect the beat of the music. Experiment with the level of sensitivity and the distance/positioning of the device in relation to the speaker to find the best results.

LED: When the LED display is not in use, it can be de-activated by turning the LED mode OFF. The red symbols will then no longer light up when using the device in a dark environment. When you press one of the menu buttons, the display will light up again and show any relevant information. When the device registers that the menu is not being actively used, it will automatically turn the LED display off again after 30 seconds.

The display also has an inversion function. This determines whether the display will be shown as normal or inverted. If the device is suspended, the display may be harder to read. This function allows you to rotate it vertically for better legibility.

TEST: When the device undergoes maintenance or inspection, the TEST function can be used to test one or more devices simultaneously. The device plays a continuous program that uses the LEDs so that you can determine if there are any abnormalities or defects. The device will run the program until stopped manually (for example, when sound-controlled mode is activated.)

RST: This function can be used to reset the device. It does the same job as turning the device off and on

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again or disconnecting the power cable. Normally, this function doesn't need to be used and it will not reset the device to its factory settings.

Remote control

The Compar Kit FX1 comes with an infrared remote control. It can be used to control various settings like selecting a colour for the spotlights, activating a light show program or turning the device on and off.

A overview of the functions:

- ON/OFF: Turns the device on and off. Turning the device off using the remote control puts it in standby mode. It can be turned on again at any moment.
- Sound: The Sound button activates sound-controlled mode which means the device will play its programs according to the sound of the music being played. In the event that the microphone sensitivity needs to be adjusted, this can be done on the stand itself via the control panel and the display.
- Strobe: Activating this function will result in all of the effects turning white and flashing quickly to create a strobe effect. A single press will activate this function with another press stopping it and returning the device to its normal operating mode.
- Show 1 - 5: Pressing these buttons will activate one of the built-in light shows (1 to 5).
- Speed +: The Speed + function speeds up the automatic program being played. A single press will result in the current program being played at a faster speed.
- Speed -: The Speed - function slows down the automatic program being played. A single press will result in the current program being played at a slower speed.
- Dimmer +: The Dimmer + function raises the intensity of the entire light set (with the exception of the laser).
- Dimmer -: The Dimmer - function lowers the intensity of the entire light set (with the exception of the laser).
- 1-9: Select fixed colour for the spotlights



The remote control is equipped with a replaceable CR2025 battery. The battery compartment can be accessed via a cover on the bottom of the remote control.

Foot controller

The included, wired foot controller that comes with the Compar Kit FX1 gives users like musicians and DJs the chance to control basic light functions without using their hands. This makes it ideal for use during performances.

The foot controller can be used for the following functions:

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Strobe: Holding the button down will result in all of the effects turning white and flashing quickly to create a strobe effect. Releasing the button again will stop the strobe effects.

Auto: Pressing the Auto button will select one of the built-in programs.

Sound: Pressing the Sound button will activate the device's sound-controlled mode, but it can also be used to adjust the speed of automated shows. Once the highest speed has been reached, the device will switch back to sound-controlled mode. Pressing the Sound button again will then switch it back to the automated show at the slowest speed.

Blackout: Pressing the Blackout button blocks the output from the entire light set. Pressing the Blackout button again cancels the Blackout allowing the light show to resume.

Operating modes

The following overview is designed to show the differences between the various operating modes that are supported by the menu functions mentioned above.

Auto:

In Automatic mode, you are choosing one of the operating modes where the device is not dependent on external factors (such as a controlling signal or sound). Choose one of the basic programs and set options such as speed, if desired.

Sound:

When in Sound mode, the device's internal microphone detects music and reacts to the beat. The device will move in sync with the music and provide an automated light show.

When there is no music for the device to detect or when only high frequencies are audible, the device will continue its program at a slower pace, so the light show will not stop abruptly. As soon as the microphone detects music again, it will resume the automated program and follow the beat.

Slave

In Slave mode, you can daisy-chain multiple devices of the same type so they all function a specific way. This allows you to have a coordinated light show with multiple devices moving the same way instead of in different directions, which can look chaotic. In principle, you can connect an unlimited number of slave devices to a master device, but a DMX booster will also be required somewhere in between. Generally speaking, you can connect up to four fixtures together without the need for a DMX booster.

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Be aware that when you attempt to connect devices of different types and brands, they may behave strangely and you may not get the desired effect because certain functions are linked to the wrong channels. This is true of DMX lighting of all brands and types.

DMX

DMX mode is the most comprehensive way to maintain ultimate control over all the functions this device has to offer. It enables you to determine exactly how many functions you want to control via the DMX controller or DMX software.

This device can be set to various channel modes so the channel layout, which is shown below, corresponds perfectly with your DMX circuit layout, as well as with the functions you will be using.

3CH mode:

CH	Function	Value
1	Show mode	000 - 005: Dimmer out 006 - 055 Random show 056 - 105: Laser show 106 - 155: Derby + strobe show 156 - 205: Par + strobe show 206 - 255: All show
2	If CH1 is set to 056 - 105 Laser show	000 - 038: Show 1 039 - 101: Show 2 102 - 165: Show 3 166 - 229: Show 4 230 - 255: Show 5
	If CH1 is set to 106 - 155 Derby + Strobe show	000 - 030: Show 1 031 - 081: Show 2 082 - 132: Show 3 133 - 183: Show 4 184 - 234: Show 5 235 - 255: Show 6
	If CH1 is set to 156 - 205 Par + Strobe show	000 - 016: Show 1 017 - 045: Show 2 046 - 073: Show 3 074 - 101: Show 4 102 - 130: Show 5 131 - 158: Show 6 159 - 186: Show 7 187 - 215: Show 8 216 - 243: Show 9 243 - 255: Show 10
	If CH1 is set to 206 - 255 All show	000 - 038: Show 1 039 - 101: Show 2 102 - 165: Show 3 166 - 229: Show 4 230 - 255: Show 5
3	Speed selection + sound-controlled mode	000 - 249: Speed (slow - fast) 250 - 255: Sound-controlled

22CH mode:

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CH	Function	Value
1	LED main dimmer(Derby)	000 - 255: 0 - 100% intensity
2	Stroboscope speed (Derby)	000 - 007: No function 008 - 249: Stroboscope speed (slow - fast) 250 - 255: Stroboscope speed (sound-controlled)
3	Dimmer red (Derby)	000 - 255: Dimmer red, 0 - 100% intensity
4	Dimmer green (Derby)	000 - 255: Dimmer green, 0 - 100% intensity
5	Dimmer blue (Derby)	000 - 255: Dimmer blue, 0 - 100% intensity
6	Dimmer white (Derby)	000 - 255: Dimmer white, 0 - 100% intensity
7	Colour selection (Derby)	000 - 005: No function 006 - 125: Fixed colours (various colours) 126 - 189: Colour jumps (slow - fast) 190 - 253: Colour fades (slow - fast) 254 - 255: Colour selection via sound-controlled mode
8	Derby rotation	000 - 127: Positions 128 - 249: Automatic rotation (slow - fast) 250 - 255: Sound-controlled movement
9	LED main dimmer (Strobe LEDs)	000 - 255: 0 - 100% intensity
10	Stroboscope speed (Strobe LEDs)	000 - 005: No function 006 - 249: Stroboscope speed (slow - fast) 250 - 255: Stroboscope speed music-controlled
11	Show selection Strobe LEDs	000 - 010: No function 011 - 020: Show 1 021 - 030: Show 2 031 - 040: Show 3 041 - 050: Show 4 051 - 060: Show 5 061 - 070: Show 6 071 - 080: Show 7 081 - 240: No function 241 - 255: Random effect
12	Effect speed	000 - 249: Speed (slow - fast) 250 - 255: Sound-controlled function
13	Laser on/off (red)	000 - 010: Red laser off 011 - 020: Red laser on 021 - 255: Stroboscope speed (slow - fast)
14	Laser on/off (green)	000 - 010: Green laser off 011 - 020: Green laser on 021 - 255: Stroboscope speed (slow - fast)
15	Laser movement	000 - 099: Laser movement speed (fast - slow) 100 - 109: No laser movement

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		(stationary) 110 - 209: Laser movement speed (slow - fast) 210 - 255: Sound-controlled mode 000 - 255: 0 - 100% intensity
16	LED main dimmer (spotlight LEDs)	
17	Stroboscope and pulse effects	000 - 007: Dimmer function on 008 - 015: Dimmer function off 016 - 131: Stroboscope speed, (slow - fast) 132 - 139: Dimmer function on 140 - 181: Slow off, fast on pulse effect (slow - fast) 182 - 189: Dimmer function on 190 - 231: Fast off, slow on pulse effect (slow - fast) 232 - 239: Dimmer function on 240 - 247: Random strobe effect 248 - 255: Dimmer function on 000 - 255: Dimmer red, 0 - 100% intensity
18	Dimmer red (Spotlights)	000 - 255: Dimmer green, 0 - 100% intensity
19	Dimmer green (Spotlights)	000 - 255: Dimmer blue, 0 - 100% intensity
20	Dimmer blue (Spotlights)	000 - 255: Dimmer white, 0 - 100% intensity
21	Dimmer white (Spotlights)	000 - 005: No function 006 - 125: Fixed colours (various colours) 126 - 189: Colour jumps (slow - fast) 190 - 253: Colour fades (slow - fast) 254 - 255: Colour selection via sound-controlled mode
22	Colour selection (Spotlights)	

51CH mode:

CH	Function	Value
1	LED main dimmer(Derby 1)	000 - 255: 0 - 100% intensity
2	Stroboscope speed (Derby 1)	000 - 007: No function 008 - 249: Stroboscope speed (slow - fast) 250 - 255: Stroboscope speed sound-controlled
3	Dimmer red (Derby 1)	000 - 255: Dimmer red, 0 - 100% intensity
4	Dimmer green (Derby 1)	000 - 255: Dimmer green, 0 - 100% intensity
5	Dimmer blue (Derby 1)	000 - 255: Dimmer blue, 0 - 100% intensity
6	Dimmer white (Derby 1)	000 - 255: Dimmer white, 0 - 100% intensity
7	Colour selection (Derby 1)	000 - 005: No function 006 - 125: Fixed colours (various colours) 126 - 189: Colour jumps (slow - fast)

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8	Derby rotation	190 - 253: Colour fades (slow - fast) 254 - 255: Colour selection via sound-controlled mode 000 - 127: Positions 128 - 249: Automatic rotation (slow - fast) 250 - 255: Sound-controlled movement
9	LED main dimmer(Derby 2)	000 - 255: 0 - 100% intensity
10	Stroboscope speed (Derby 2)	000 - 007: No function 008 - 249: Stroboscope speed (slow - fast) 250 - 255: Stroboscope speed sound-controlled
11	Dimmer red (Derby 2)	000 - 255: Dimmer red, 0 - 100% intensity
12	Dimmer green (Derby 2)	000 - 255: Dimmer green, 0 - 100% intensity
13	Dimmer blue (Derby 2)	000 - 255: Dimmer blue, 0 - 100% intensity
14	Dimmer white (Derby 2)	000 - 255: Dimmer white, 0 - 100% intensity
15	Colour selection (Derby 2)	000 - 005: No function 006 - 125: Fixed colours (various colours) 126 - 189: Colour jumps (slow - fast) 190 - 253: Colour fades (slow - fast) 254 - 255: Colour selection via sound-controlled mode
16	Derby rotation	000 - 127: Positions 128 - 249: Automatic rotation (slow - fast) 250 - 255: Sound-controlled movement
17	LED main dimmer (Strobe LEDs)	000 - 255: 0 - 100% intensity
18	Stroboscope speed (Strobe LEDs)	000 - 005: No function 006 - 249: Stroboscope speed (slow - fast) 250 - 255: Stroboscope speed sound-controlled
19	Show selection Strobe LEDs	000 - 010: No function 011 - 020: Show 1 021 - 030: Show 2 031 - 040: Show 3 041 - 050: Show 4 051 - 060: Show 5 061 - 070: Show 6 071 - 080: Show 7 081 - 240: No function 241 - 255: Random effect
20	Effect speed	000 - 249: Speed (slow - fast) 250 - 255: Sound-controlled function
21	Laser on and off (red)	000 - 010: Red laser off 011 - 020: Red laser on 021 - 255: Stroboscope speed (slow - fast)
22	Laser on and off (green)	000 - 010: Green laser off 011 - 020: Green laser on

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23	Laser movement	021 - 255: Stroboscope speed (slow - fast) 000 - 099: Laser movement speed (fast - slow) 100 - 109: No laser movement (stationary) 110 - 209: Laser movement speed (slow - fast) 210 - 255: Sound-controlled mode
24	LED main dimmer (Spotlight 1)	000 - 255: 0 - 100% intensity
25	Stroboscope and pulse effects (Spotlight 1)	000 - 007: Dimmer function on 008 - 015: Dimmer function off 016 - 131: Stroboscope speed (slow - fast) 132 - 139: Dimmer function on 140 - 181: Slow off, fast on pulse effect (slow - fast) 182 - 189: Dimmer function on 190 - 231: Fast off, slow on pulse effect (slow - fast) 232 - 239: Dimmer function on 240 - 247: Random strobe effect 248 - 255: Dimmer function on
26	Dimmer red (Spotlight 1)	000 - 255: Dimmer red, 0 - 100% intensity
27	Dimmer green (Spotlight 1)	000 - 255: Dimmer green, 0 - 100% intensity
28	Dimmer blue (Spotlight 1)	000 - 255: Dimmer blue, 0 - 100% intensity
29	Dimmer white (Spotlight 1)	000 - 255: Dimmer white, 0 - 100% intensity
30	Colour selection (Spotlight 1)	000 - 005: No function 006 - 125: Fixed colours (various colours) 126 - 189: Colour jumps (slow - fast) 190 - 253: Colour fades (slow - fast) 254 - 255: Colour selection via sound-controlled mode
31	LED main dimmer (Spotlight 2)	000 - 255: 0 - 100% intensity
32	Stroboscope and pulse effects (Spotlight 2)	000 - 007: Dimmer function on 008 - 015: Dimmer function off 016 - 131: Stroboscope speed (slow - fast) 132 - 139: Dimmer function on 140 - 181: Slow off, fast on pulse effect (slow - fast) 182 - 189: Dimmer function on 190 - 231: Fast off, slow on pulse effect (slow - fast) 232 - 239: Dimmer function on 240 - 247: Random strobe effect 248 - 255: Dimmer function on
33	Dimmer red (Spotlight 2)	000 - 255: Dimmer red (0 - 100% intensity)
34	Dimmer green (Spotlight 2)	000 - 255: Dimmer green, 0 - 100% intensity

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35	Dimmer blue (Spotlight 2)	000 - 255: Dimmer blue, 0 - 100% intensity
36	Dimmer white (Spotlight 2)	000 - 255: Dimmer white, 0 - 100% intensity
37	Colour selection (Spotlight 2)	000 - 005: No function 006 - 125: Fixed colours (various colours) 126 - 189: Colour jumps (slow - fast) 190 - 253: Colour fades (slow - fast) 254 - 255: Colour selection via sound-controlled mode
38	LED main dimmer (Spotlight 3)	000 - 255: 0 - 100% intensity
39	Stroboscope and pulse effects (Spotlight 3)	000 - 007: Dimmer function on 008 - 015: Dimmer function off 016 - 131: Stroboscope speed (slow - fast) 132 - 139: Dimmer function on 140 - 181: Slow off, fast on pulse effect (slow - fast) 182 - 189: Dimmer function on 190 - 231: Fast off, slow on pulse effect (slow - fast) 232 - 239: Dimmer function on 240 - 247: Random strobe effect 248 - 255: Dimmer function on
40	Dimmer red (Spotlight 3)	000 - 255: Dimmer red (0 - 100% intensity)
41	Dimmer green (Spotlight 3)	000 - 255: Dimmer green, 0 - 100% intensity
42	Dimmer blue (Spotlight 3)	000 - 255: Dimmer blue, 0 - 100% intensity
43	Dimmer white (Spotlight 3)	000 - 255: Dimmer white, 0 - 100% intensity
44	Colour selection (Spotlight 3)	000 - 005: No function 006 - 125: Fixed colours (various colours) 126 - 189: Colour jumps (slow - fast) 190 - 253: Colour fades (slow - fast) 254 - 255: Colour selection via sound-controlled mode
45	LED main dimmer (Spotlight 4)	000 - 255: 0 - 100% intensity
46	Stroboscope and pulse effects (Spotlight 4)	000 - 007: Dimmer function on 008 - 015: Dimmer function off 016 - 131: Stroboscope speed (slow - fast) 132 - 139: Dimmer function on 140 - 181: Slow off, fast on pulse effect (slow - fast) 182 - 189: Dimmer function on 190 - 231: Fast off, slow on pulse effect (slow - fast) 232 - 239: Dimmer function on 240 - 247: Random strobe effect 248 - 255: Dimmer function on
47	Dimmer red (Spotlight 4)	000 - 255: Dimmer red, 0 - 100% intensity

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48	Dimmer green (Spotlight 4)
49	Dimmer blue (Spotlight 4)
50	Dimmer white (Spotlight 4)
51	Colour selection (Spotlight 4)

000 - 255: Dimmer green, 0 - 100% intensity
000 - 255: Dimmer blue, 0 - 100% intensity
000 - 255: Dimmer white, 0 - 100% intensity
000 - 005: No function
006 - 125: Fixed colours (various colours)
126 - 189: Colour jumps (slow - fast)
190 - 253: Colour fades (slow - fast)
254 - 255: Colour selection via sound-controlled mode

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Installation and connection requirements

Now that you know how the Compar Kit FX1 works, it's important to know how to use it correctly and safely according to the installation and connection requirements.

Make sure the device and connection cables are out of reach of children, and if children are present, that they are under adult supervision at all times. The device can be used when standing up or suspended and if children pull on the cables, it could cause the device to fall on top of them. To avoid injury, it is important to pay close attention to the position and/or installation of the device.

Stand-up use

When you want use the Compar Kit FX1 in a standing position make sure to use the included stand. Ensure that the feet of the stand are fully extended in order to create a stable base. Extend the pole of the stand as much as required. Bear in mind that the further the pole is extended, the less stable the stand will be. Lock the stand in position using the safety pin and the tightening knob, but don't use too much force. This will ensure a stable base for the light set.

Place the light bar on top of the stand using the 35 mm flange adapter. Use the tightening knob to secure the light to the stand so that it can't turn or fall off accidentally.



Connecting the light effects

The Compar Kit FX1 comes with two LED derby light effects and a laser that make your light show more dynamic. They can be mounted on top of the light bar using the holes you'll find there.

The correct mounting sequence is: tightening knob - light effect bracket - ring - bar. This ensures the light effect bracket mounts easily and doesn't scratch the light bar.

Then connect each device to the appropriate connector (named on the connection panel). There's only one way to do this and then the connection can be sealed by turning the ring of the connector. This ensures the connection won't be accidentally disconnected.

The Compar Kit FX1 can also be used without the extra light effects. If already mounted, everything needs to be unmounted by reversing the order in which things were mounted. The connectors should never be used for other devices!

Suspended use (hooks)

If you want to suspend the Compar Kit FX1, the steps described below should be followed.

The two derby light effects and the laser need to be unmounted. Make sure you have appropriate hooks which you can buy from a dealer. You'll need two for the light bar, two for the derby effects and a small hook for the laser. With this hardware, you'll be able to use the light set with a truss system, a light bridge or any another piece of equipment that's suitable for holding light fixtures.

Hardware for mounting the Compar Kit FX1 on a wall, ceiling or beam is not included. What's more, mounting this product on such surfaces is strongly discouraged.

When the Compar Kit FX1 is suspended for use, a safety cable should be attached to the fixture. This is not included, but you'll find one at your local dealer. Always choose the shortest safety cable possible to ensure the bar won't fall in the event of an incident. Place the safety cable around the base it is attached to (such as a truss) and the bar itself, between one of the spotlights.

By ensuring that the safety cable is as short as possible and because the spotlights have fixed goosenecks, even if one of the hooks breaks, the light set can not fall.

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The separate effects can be secured in the same way, by feeding the safety cable through the bracket of the device.

Ensure that the safety cable has a load capacity of 10x the weight of the fixture and that the device can not fall further than 30 cm. You can wrap the safety cable around the truss or light stand several times to ensure the fall is as short as possible. The shorter the fall, the less chance of damage or injury.

Light source

The Compar Kit FX1 contains powerful LED modules that create an even more powerful effect thanks to a special lens that bundles the beams together. Never look directly into the lens from close range, as the human eye can't adjust to the sudden intensity of the beam of light this device produces. It won't result in permanent damage, but it can cause temporary blind spots which may cause disorientation and discomfort.

Spotlights

The spotlights on the Compar Kit FX1 each have a flexible gooseneck that allows their position to be easily adjusted by hand. Simply move them until they give off light in the direction and at the angle required.

Don't rotate the spotlights by more than 180 degrees horizontally around their axis in order to prevent damage to the gooseneck and the cabling that runs through them. Adjust the gooseneck with care and don't force it into certain positions.

Laser

This device is equipped with a laser light effect. The use of lasers is not without danger and, depending on where you use the laser, may be subject to legal requirements. Before you use the laser, please check any legal requirements with your local authority. It's important to know what class the laser is in. This product has a laser with a 3R class rating.

The laser sources inside the product have a 3B class rating. Do not open the housing or remove any screws, panels or any other part of the housing. Before using the product, check that the housing of the laser is not damaged. If the housing is damaged, the product should not be used. Contact your supplier to check if it can be used safely.

The Compar Kit FX's laser has grating lens system. A laser can be a very dangerous light source because it emits an extremely intense beam with a very narrow dispersion range which can cause damage to the human eye when used incorrectly.

The Compar Kit FX1's lasers shine onto an optical disc that breaks the beam up into hundreds of separate light beams which means the power of an individually projected laser light beam is not dangerous. However, it's still recommended to ensure a minimum distance of 30 cm is kept between a person and the laser because the light rays still converge in the source of the device. Thanks to the construction of the laser effect, this device has a 3R class rating and meets the relevant requirements in standard IEC-60825 : 1-2014 .

This device's laser is locked with a key and 2 keys are provided to lock and unlock it. This prevents it from being used unintentionally. Always make sure that a minimum distance of at least 30 cm is maintained between the laser light effect and the human eye.

Before use, always check whether the optical component of the laser is still present. If not, a dangerous static laser beam can be produced when the laser is switched on!

The laser sources in the device have the following properties:

Green:

wavelength: 532 nm

CW/Pulsed: pulsed

max. peak power output (after optics): 3.80 mW

nominal max. output laser diode in device: 50 mW

Red:

wavelength: 659 nm

CW/Pulsed: pulsed

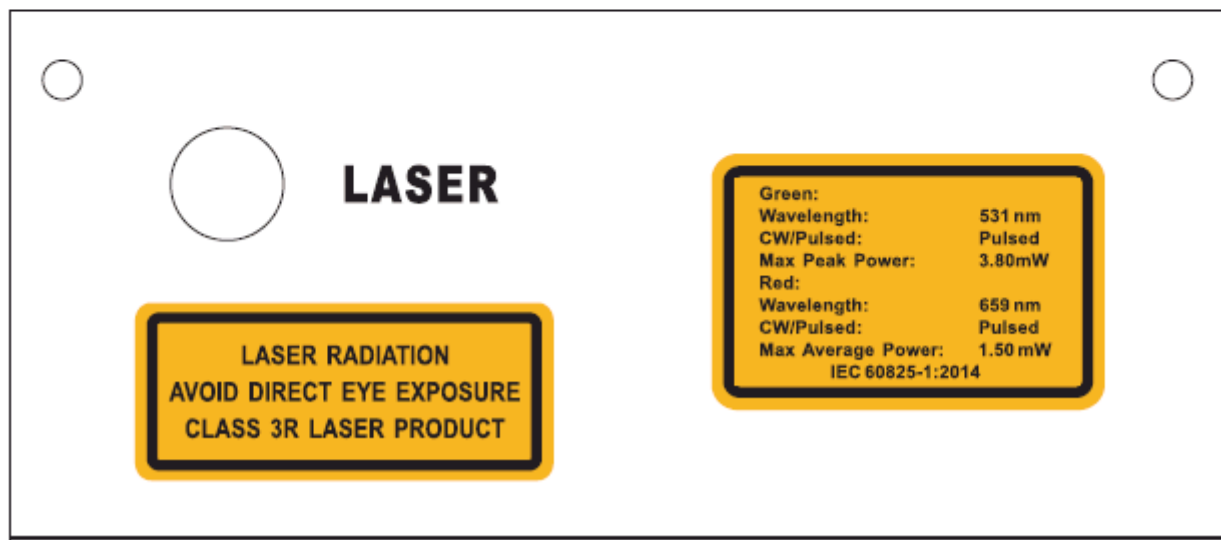
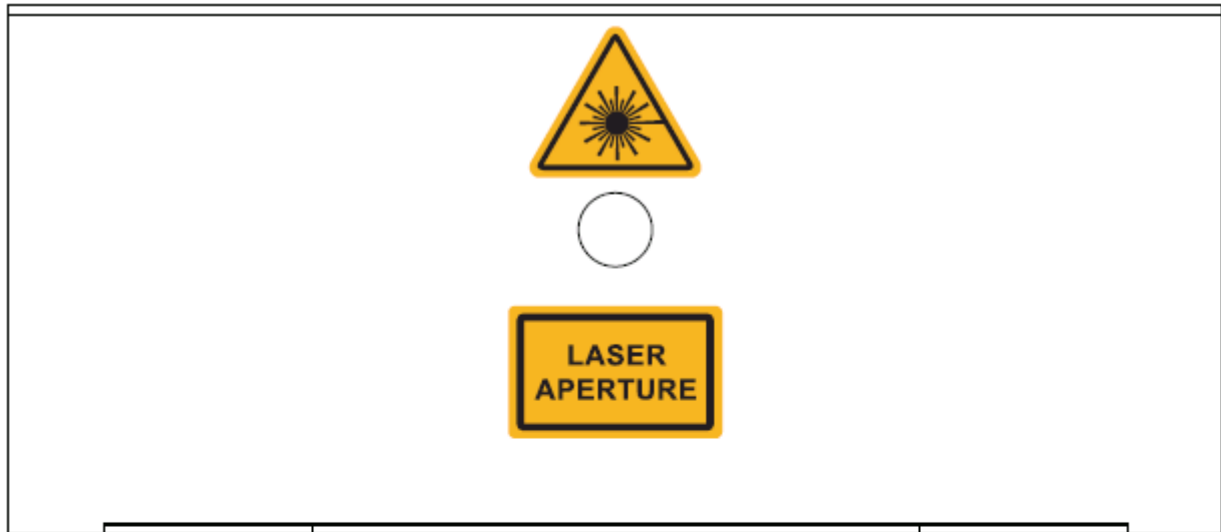
max. peak power output (after optics): 1.50 mW

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nominal max. output laser diode in device: 100 mW

The laser unit has various warning labels attached to the front and back of its housing.



The laser light effect is specially constructed and has special optics. It must never be modified by the user or used in ways other than those described in this manual. Modifications or improper use can result in exposure to dangerous radiation which can cause permanent injuries!

Cooling

The Compar Kit FX1's derby light effects are cooled with a fan installed in the housing. Make sure that the fan is not blocked and regularly check that it is functioning properly. Substances like dust and smoke can be sucked into the unit and affect the fan's efficiency.

Parts and repair

This product does not include spare parts and cannot be repaired by the user. All inspections and overall maintenance should be done by a specialist.

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Cleaning and maintenance

Clean the exterior of this device monthly with a dry or slightly damp microfibre cloth. Ensure that the device is unplugged before cleaning it.

Check if all of the screws are present and tightened and take action when necessary. Check all metal parts of the device for any signs of corrosion. If corrosion is found, the device needs to be checked thoroughly.

Power output

The Compar Kit FX1 is equipped with a power output that has an IEC C13 connector. It can be used to power additional devices so that you don't need to use extra power cables.

The Compar Kit FX1 has a fuse designed to protect only it. The power inputs and outputs are directly linked. Should there be a problem with the Compar Kit FX1, this will not usually affect any devices that are being powered by it.

Since a standard 230V group can be subjected to a maximum load of 16A and the maximum capacity of the IEC C13 or C14 connector is fixed at 10A, a maximum of 2000 watts of equipment can be connected to the power output. This calculation includes a small safety margin.

This capacity is usually more than sufficient to connect a complete LED light set. Avoid connecting equipment that requires a lot of power such as smoke machines and halogen lighting.

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DMX lighting troubleshooting

If you have a problem with your device, please consult this troubleshooting section for possible solutions. If, after consulting this section, the problem remains unresolved, please contact your dealer for more information and/or help.

This troubleshooting section contains information on how to solve the most common DMX light effect problems, but it does not and cannot cover every eventuality. It is possible that you won't find your problem, cause and solution in this section due to differences between product specifications.

Problem	Possible cause	Solution
The device cannot be turned on	A fuse is blown	Check the fuse to rule out if it is blown or not. If it is blown, replace it with a new fuse of the same type and class
	Power cable not plugged in	Check if the power cable is properly connected to the device and plugged into an active power socket
The device is not reacting to DMX signals	Incorrect DMX start address	Check if the device has been set to the correct DMX start address
	DMX controller is on 'Blackout'	Make sure the 'Blackout' function on the DMX controller is not activated
	Make sure the polarity switch on the DMX controller is set correctly	Try to reverse the DMX polarity switch on the DMX controller
The device does not react to sound/music	The device is not reacting, there is no DMX signal indication	Make sure the XLR cables are connected properly and are not defective. Replace if necessary
	Incorrect operation mode	Make sure the sound-controlled mode has been selected
	The internal microphone sensitivity is too low	Check the microphone sensitivity level and increase it if necessary
The amount of projected light is minimal	The speaker is too far away, or is not producing enough low tones	Place the light effect closer to a speaker (or vice versa) and/or increase the low-frequency level. The built-in microphone is not triggered by high tones
	Dirty or dusty optics	Clean the lens and/or other optics
The DMX signal appears to be interrupted and some devices are flashing or behaving strangely	Dimmer is not completely open	Check if the dimmers on the spotlights themselves and/or the master dimmer is completely open. Also check the colour balance settings.
	Damaged/defective cables	Check and replace the DMX cables if necessary
	Power interference on the DMX signal	Avoid connecting signal cables parallel to power cables
	DMX terminator missing	Close the DMX circuit with a DMX

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		terminator
	Signal loss or interference in the DMX circuit	Close the DMX circuit with a terminator or connect a booster after a maximum of every 32 fixtures
The device is not reacting to DMX commands	Incorrect DMX channel mode	Check if the device is set to the correct DMX channel mode
The operation mode can not be changed	The device is in Slave mode	If the device is in Slave mode, it will wait for a master signal unless there is a DMX signal present. Set the device to Master to activate the sound-controlled or automated operation modes
The device is not responding to the remote control	Battery empty	If the battery in the remote control is empty, replace it with an equivalent CR2025 battery
	Remote control not aimed properly	Ensure that the remote control is pointed towards the front panel of the Compar Kit FX1 with a direct 'line of sight' between the remote control and the device at a distance of no more than 10 metres away. This gives the most reliable result.

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Specifications

Contents:

- basic light bar with electronics and four LED spotlights with goosenecks + 4 stroboscope LEDs
- light stand + bag
- carrying bag
- 2x Derby LED light effect
- 1x RG grating laser
- bag for transport and storage

Light bar properties:

- four spotlights with manually-adjustable goosenecks (movable and rotatable)
- four-character LED display with menu buttons for general control
- infrared receiver on the front
- equipped with a built-in microphone for sound-controlled mode
- mounting points for 3 separate light effects (2X derby, 1x laser)
- connection points for 3 separate light effects, foot controller, power, DMX signal and power output

Remote control

- battery type: CR2025

Light sources:

- spotlights: 12x 1 W R/G/B/W LEDs
- stroboscope LEDs: 4x 1 W white LED
- derby LED light effect: 2x 8 W RGBW *2x
- laser: 150 mW RG laser diodes (100 mW red, 50 mW green)

Laser light effect properties:

Class: 3R laser product

Green:

wavelength: 532 nm

CW/Pulsed: pulsed

max. peak power output (after optics): 3.80 mW

nominal max. output laser diode inside housing : 50 mW

Red:

wavelength: 659 nm

CW/Pulsed: pulsed

max. peak power output (after optics): 1.50 mW

nominal max. output laser diode inside housing: 100 mW

divergence laserdiodes:

- red laserdiode: 1.5 mrad

- green laserdiode: 1.5 mrad

Operating modes:

- stand-alone (programs with adjustable speed or music-controlled)
- master/slave with multiple units linked together
- operation via an external DMX light table (3, 22 or 51 channels)
- operation via an infrared remote control (included)
- operation via a cabled foot controller (included)
- operation via the 4-character LED display and menu buttons on the bar itself

Technical information:

- maximum stand height: approx. 2.1 m
- power supply: 100 - 240V AC, 50/60 Hz
- power consumption: maximum 126 W

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- fuse: F3AL 250V
- power input via IEC C14 with fuse holder
- power loop output via IEC C13, max. 2000 W
- light bar dimensions: 100 x 17.5 x 48.9 cm
- weight: 9.2 kg

Light output and projection angle:

LED projector (beam angle: 43 degrees)

- 1 red spotlight: 1148 lumens @ 1m
- 1 green spotlight: 2570 lumens @ 1m
- 1 blue spotlight: 2890 lumens @ 1m
- 1 white spotlight: 2630 lumens @ 1m
- 1 RGBW spotlight: 9300 lumens @ 1m

Derby (beam angle: 5 degrees)

- 1 derby: 575 lumens @ 1m
- 1 derby: 1263 lumens @ 1m
- 1 derby: 1561 lumens @ 1m
- 1 derby: 2440 lumens @ 1m
- 1 derby: 4310 lumens @ 1m

Stroboscope LED (beam angle: 39 degrees)

- 756 lumens @ 1m

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