USER´S MANUAL
BEDIENUNGSANLEITUNG
MANUEL D`UTILISATION
MANUAL DE USUARIO
INSTRUKCJA OBSŁUGI
MANUALE D' USO

cameo®

GREEN SOLUTION

LED TECHNOLOGY

COLD WHITE

iDMX

512 DMX

RDM

STROBE EFFECT

FLICKER FREE

PAN & TILT

MULTIPLE ANGLES

ZOOM

CMY

COLOUR WHEEL

FOCUS

IRIS

FROST FILTER

GOBO WHEEL

LINEAR PRISM

CIRCULAR PRISM

ETL LISTED US Intertek

AZOR® S2
COMPACT SPOT MOVING HEAD
CLAZORS2

CONTENTS / INHALTSVERZEICHNIS / CONTENU / CONTENIDO / TREŚĆ / CONTENUTO

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YOU HAVE MADE THE RIGHT CHOICE!

This device has been developed and manufactured to the highest quality standards to ensure many years of problem-free operation. Please read this user manual carefully to be able to use your new Cameo product quickly and optimally. Further information about Cameo Light is available on our website **CAMEOLIGHT**.COM.

INFORMATION ON THIS USER MANUAL

• Carefully read the safety instructions and the entire manual before operating the device.

• Observe the warnings on the device and in the user manual.

• Always keep the user manual within reach.

• If you sell or pass on the device, it is important that you also include this user manual, as it is an integral part of the product.

INTENDED USE

The product is a device for event technology!

This product has been developed for professional use in the field of event technology and is not suitable for use as domestic lighting!

Furthermore, this product is only intended for qualified users with specialist knowledge of event technology!

Use of the product outside the specified technical data and operating conditions is considered inappropriate!

Liability for damage and third-party damage to persons and property due to inappropriate use is excluded!

The product is not suitable for:

• Use by persons (including children) with limited physical, sensory or mental abilities or lack of experience and knowledge.

• Children (children must be instructed not to play with the device).

DEFINITIONS AND SYMBOL EXPLANATIONS

1. **HAZARD:** The word HAZARD, possibly in combination with a symbol, indicates situations in which there is an immediate danger or risk of potentially fatal injury.

2. **WARNING:** The word WARNING, possibly in combination with a symbol, indicates situations in which there is an immediate danger or risk of potentially fatal injury.

3. **CAUTION:** The word CAUTION, possibly in combination with a symbol, indicates situations or conditions that could result in injury.

4. **ATTENTION:** The word ATTENTION, possibly in combination with a symbol, indicates situations or conditions that could result in damage to property and/or the environment.

This symbol identifies hazards that can cause electric shock.

This symbol identifies hazardous areas or hazardous situations.

This symbol indicates hazards caused by hot surfaces.

This symbol indicates hazards caused by intense light sources.

This symbol indicates a device in which there are no user-replaceable parts.

This symbol indicates additional information on the operation of the product.

SAFETY INSTRUCTIONS

HAZARD:

1. Do not open the device and do not perform any modifications.

2. If your device no longer functions properly, if liquids or objects get inside it or if it has been damaged in any other way, switch it off immediately and unplug it from the power source. The device may be repaired only by authorised repair technicians.

3. For devices of protection class 1, the protective conductor must be connected correctly. Never disconnect the protective conductor. Devices of protection class 2 do not have a protective conductor.

4. Ensure that live cables are not kinked or otherwise mechanically damaged.

5. Never bypass the device fuse.

WARNING:

1. The device may not be operated if it shows obvious signs of damage.

2. The device may only be installed in a voltage-free state.

3. If the device's power cable is damaged, the device may not be used.

4. Permanently connected power cables may only be replaced by a qualified person.

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ATTENTION:

1. Do not switch on the device if it has been exposed to extreme temperature fluctuations (for example, following transport). Moisture and condensation can damage the device. Switch on the device only when it has reached room temperature.

2. Ensure that the voltage and frequency of the mains supply match the values specified on the device. If the device has a voltage selector switch, do not connect the device until it has been set correctly. Use only suitable power cables.

3. To disconnect the device from the mains on all poles, it is not sufficient to press the on/off switch on the device.

4. Make sure that the fuse used corresponds to the type printed on the device.

5. Ensure that suitable measures have been taken against overvoltage (e.g. lightning strikes).

6. Observe the specified maximum output current on devices with a Power Out connection. Ensure that the total current consumption of all connected devices does not exceed the specified value.

7. Replace plug-in power cables with original cables only.

HAZARD:

1. Choking hazard! Plastic bags and small parts must be kept out of reach of persons (including children) with reduced physical, sensory or mental capabilities.

2. Risk of falling! Make sure that the device is securely installed and will not fall down. Only use suitable stands or mounts (particularly for fixed installations). Ensure that accessories are properly installed and secured. Ensure that applicable safety regulations are observed.

WARNING:

1. Use the device in the prescribed manner only.

2. Operate the device using only accessories of the type recommended and supplied by the manufacturer.

3. Observe safety regulations applicable in your country during installation.

4. After connecting the device, ensure that all cables are routed so as to avoid damage or accidents, such as from tripping.

5. Always observe the specified minimum distance to normally flammable materials! Unless explicitly stated, the minimum distance is 0.3 m.

CAUTION:

1. Moving components such as mounting brackets may become jammed.

2. In the case of devices with motor-driven components, there is a risk of injury due to the movement of the device. Sudden movement of the device can cause shock reactions.

3. The housing surface of the device can become very hot during regular operation. Ensure that accidental touching of the housing is not possible. Always allow the device to cool sufficiently before removal, maintenance work and charging etc.

ATTENTION:

1. Do not install or use the device in the vicinity of radiators, accumulators, stoves, or other heat sources. Ensure that the device is always installed in such a way that it is sufficiently cooled and cannot overheat.

2. Do not place any ignition sources, such as burning candles, near the device.

3. Ventilation openings must not be covered and fans must not be blocked.

4. For transport, use the original packaging or packaging provided by the manufacturer.

5. Avoid any impacts to or shaking of the device.

6. Observe the IP rating and the ambient conditions such as temperature and humidity according to the specifications.

7. Devices can be continuously further developed. In the event of deviating information on operating conditions, performance or other device properties between the user manual and the device labelling, the information on the device always has priority.

8. The device is not suitable for tropical climate zones or for operation over 2,000 m above sea level.

9. Unless explicitly stated, the device is not suitable for operation under marine conditions.

PLEASE NOTE:

For conversion or retrofit sets or accessories provided by the manufacturer, it is essential to observe the instructions included.

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CAUTION! IMPORTANT INFORMATION REGARDING LIGHTING PRODUCTS!

1. Never look directly into the beam of light, not even for a short period of time.

2. Never look into the beam of light using optical devices such as a magnifying glass.

3. Stroboscopic effects may cause epileptic seizures in susceptible individuals!

4. Permanently installed lamps are built into these lighting units. These may not be replaced by the user. The lamps contained in this lighting unit may only be replaced by the manufacturer, its service partner, or a similarly qualified person.

NOTES FOR MOBILE INDOOR DEVICES

1. Temporary operation! Event equipment is generally only designed for temporary operation.

2. Continuous operation or permanent installation can impair the functioning of the device and cause premature ageing.

INCLUDED

Remove the product from the packaging and remove all packaging material.

Please check the completeness and integrity of the delivery and notify your distribution partner immediately after purchase if the delivery is not complete or if it is damaged.

Product includes:

▶ 1 x AZOR S2 LED moving head

▶ 2 x Omega mounting brackets

▶ 1x power cable

▶ User manual

INTRODUCTION
LED MOVING HEAD

CLAZORS2

CONTROL FUNCTIONS:

21-channel basic, 24-channel standard, 28-channel extended DMX control

DMX512

W-DMX™ via optionally available Cameo iDMX stick

RDM

Master / slave operation

Standalone functions

FEATURES:

300 W cool white LED. CMY colour mix. Colour wheel with 8 colours plus open. 2 gobo wheels with 8 rotating gobos and 11 fixed gobos plus open. Zoom, Focus, Iris, Prism and Frost functions. DMX512. Connection for optional iDMX stick for wireless control via W-DMX™. 5-pin DMX connections. 2 x Omega mounting brackets included.

The spotlight features the RDM standard (Remote Device Management). Remote device management allows the user to view the status and configuration of RDM terminals via an RDM-capable controller, such as the optionally available Cameo UNICON
(product number CLIREMOTE).

Cameo UNICON also provides access to the entire spotlight menu.

CONNECTIONS, OPERATING AND DISPLAY ELEMENTS

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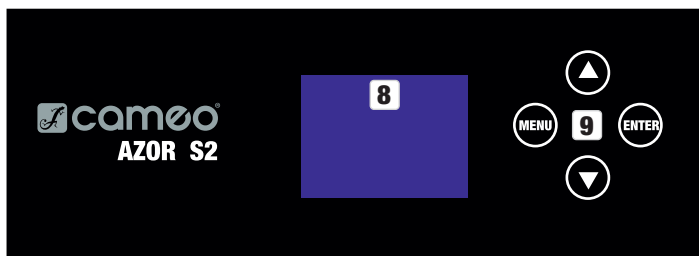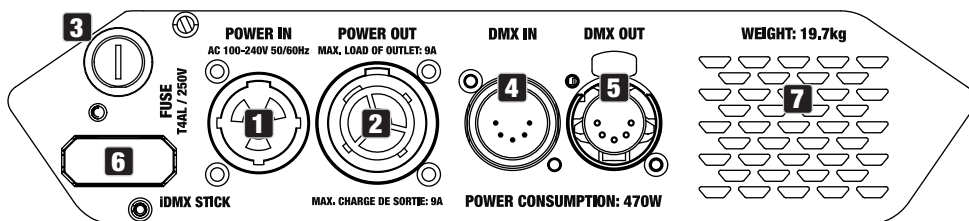
1 POWER IN

TRUE1-compatible mains input socket. Operating voltage 100–240 V AC/50–60 Hz. Use the power cable provided.

2 POWER OUT

TRUE1-compatible mains output socket. Facilitates power supply to other CAMEO spotlights. Ensure that the total power consumption of all devices connected to the device does not exceed the given ampere (A) value.

3 FUSE

Fuse holder for 5 x 20 mm fuses. IMPORTANT: Replace the fuse only with a fuse of the same type and value. In the event of repeated fuse failure, please contact an authorised service centre.

4 DMX IN

Male 5-pin XLR socket for connection to a DMX control device (e.g. DMX console).

5 DMX OUT

Female 5-pin XLR socket for sending the DMX control signal.

6 IDMX STICK

Connection for the optional iDMX stick for W-DMX™ connection (plug in the iDMX stick with the antenna facing upwards). Note the settings under **Wireless** in the Settings menu.

7 VENTILATION OPENINGS

To avoid damage to the device, do not cover the ventilation openings on the rear and ensure that air can circulate freely.

8 OLED DISPLAY

The OLED display shows the currently activated mode (main display), the menu items in the menu and the numerical value or operational status in certain menu items. If there is no input for approx. one minute, the display automatically returns to the main display. Note regarding the main display in operating modes with external control: As soon as the control signal is interrupted, the characters in the display begin to flash. When there is a control signal again, the flashing stops.

9 CONTROL KEYS

MENU – Press MENU to access the main menu. Press again or repeatedly to return to the main display. Pressing MENU without confirming a value or status change with ENTER restores the previously confirmed value or status.

ENTER – press ENTER to access the menu levels, to make value changes, and to access the submenus. Confirm value or status changes by pressing ENTER.

▲ and ▼ – Select individual menu items in the main menu (DMX address, DMX mode etc.) and in the submenus. Allows you to change the value of a menu option, such as the DMX address, as desired (long press = quick value change).

10 RECESSED GRIPS

In addition to the two transport handles on the base of the unit, there are practical recessed grips at the top of the inner sides of the two device arms.

11 PAN LOCK

Mechanical locking device used to prevent the rotation of the head in the horizontal direction during transport. Disconnect the unit from the mains, move the head parallel to the base (8 possible positions) and push the locking lever upwards and then in the direction of

the pan rotation axis (LOCK) to lock it in position. Unlock the device before startup (UNLOCK).

12 TILT LOCK

Mechanical locking device used to prevent rotation of the head in the vertical direction during transport (7 possible positions). Disconnect the unit from the mains and slide the locking lever in the direction of the tilt rotation axis, moving the head of the unit vertically until one of the 7 locking positions is found and the locking lever engages (LOCK). Unlock the device before startup (UNLOCK).

- Similar to image -

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OPERATION

NOTES

When the spotlight is started, "Update Wait" briefly appears on the display, then "Welcome to Cameo", the model name and the software version. The motors are then reset (Motor Reset Please Wait). After this process, the spotlight is operational and the previously activated operating mode is launched.

MAIN DISPLAY IN DMX MODE

The main display in DMX mode shows the currently set DMX start address (see illustration). If the spotlight has no DMX signal, the characters on the display flash.

```
DMX Address
    001
```

SETTING DMX START ADDRESS (DMX Address)

Starting from the main display, press MENU to enter the main menu. Now use ▲ or ▼ to select the menu item **DMX Address** and confirm with ENTER. Now use the ▲ or ▼ buttons to configure the desired DMX start address and press ENTER to confirm (highest value dependent upon activated DMX mode).

```
-------- Menu --------
▶ DMX Address
  DMX Mode
  Stand Alone
  Slave
  Settings
  System Info
```

```
--- DMX Address ---
▶ DM
  DM   001
  St
  Slave
```
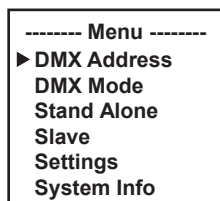
CONFIGURING DMX MODE (DMX Mode)

Starting from the main display, press MENU to enter the main menu. Now use ▲ or ▼ to select the menu item **DMX Mode** and confirm with ENTER. Again use ▲ or ▼ to select the desired DMX mode and confirm with ENTER. Tables with the channel assignment of the different DMX modes can be found in these instructions under DMX CONTROL.

```
-------- Menu --------
  DMX Address
▶ DMX Mode
  Stand Alone
  Slave
  Settings
  System Info
```

```
----- DMX Mode -----
▶ 21CH Basic
  24CH Standard
  28CH Extended
```
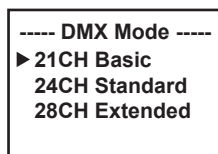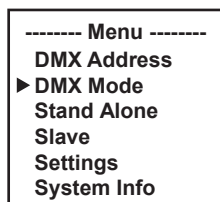
STAND ALONE MODE (Stand Alone)

Four individually adjustable scenes are available in stand alone mode. Starting from the main display, press MENU to enter the main menu. Use ▲ or ▼ to select the menu item **Stand Alone** and confirm with ENTER. Now use ▲ and ▼ to select the desired preset and confirm with ENTER.

```
-------- Menu --------
   DMX Address
   DMX Mode
 ▶ Stand Alone
   Slave
   Settings
   System Info
```

```
---- Stand Alone ----
 ▶ User Preset 1
   User Preset 2
   User Preset 3
   User Preset 4
```

```
--- User Preset x ---
 ▶ Pan        <255>
   Tilt       <255>
   |            |
   P/T Speed  <255>
```

```
-------- Pan --------
 ▶ Pa         5>
   Til       5>
   |      255
   P/T Speed <255>
```
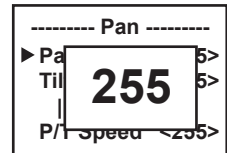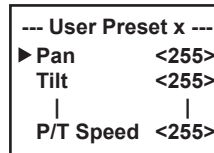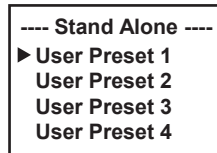
Select the desired submenu item, confirm, set the desired value and confirm again.

User Preset X	Tilt	000	–	255	0% -> 100%
	Pan	000	–	255	0% -> 100%
	Dimmer	000	–	255	Master dimmer 0% -> 100%
	Strobe	000	–	255	Multi-functional strobe
	Cyan	000	–	255	
	Magenta	000	–	255	CMY
	Yellow	000	–	255	
	Colour	000	–	255	Colour Wheel
	Gobo 1	000	–	255	Gobo Wheel 1
	Gobo 1 Red	000	–	255	Gobo 1 Rotation
	Gobo 2	000	–	255	Gobo Wheel 2
	Zoom	000	–	255	Narrow -> wide
	Focus	000	–	255	0% -> 100%
	Iris	000	–	255	0% -> 100%
	PrismSelect	000	–	255	Prism selection
	Prism 1	000	–	255	Prism 1 position/rotation
	Prism 2	000	–	255	Prism 2 position/rotation
	Frost	000	–	255	0% -> 100%
	P/T Macro	000	–	255	Pan/Tilt Macro
	P/T Speed	000	–	255	Pan/Tilt Macro Speed

SLAVE MODE

Starting from the main display, press MENU to enter the main menu. Use ▲ or ▼ to select the menu item **Slave** and confirm with ENTER. Connect the slave and master unit (same model, same software version) using a DMX cable, and activate a stand alone mode on the master unit. The slave unit will now follow the master unit. Alternatively, the control signal can be transmitted via W-DMX (iDMX stick optionally available).

```
-------- Menu --------
   DMX Address
   DMX Mode
   Stand Alone
 ▶ Slave
   Settings
   System Info
```

```
        Slave
```
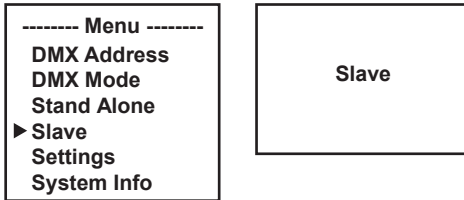
SYSTEM SETTINGS (Settings)

Starting from the main display, press MENU to enter the main menu. Using ▲ and ▼, select the menu item **Settings** and confirm with ENTER.

```
-------- Menu --------
   DMX Address
   DMX Mode
   Stand Alone
   Slave
 ▶ Settings
   System Info
```

```
------ Settings ------
 ▶ Wireless
   Display
      |
   Service
```
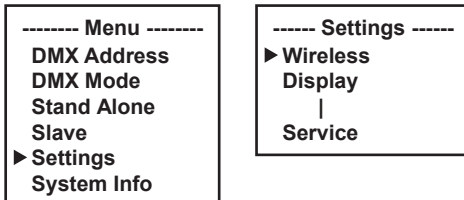
This will take you to the submenu for setting the submenu items (see table, select with ▲ and ▼, confirm with ENTER, change value or status with ▲ and ▼, confirm with ENTER).

Settings (Bold = Factory Settings)				
Wireless	Wireless settings (iDMX stick optional)	iDMX State	Off	Wireless control disabled
			On	Wireless control enabled
		Signal routing	To XLR	Signal -> DMX OUT
			Backup by XLR	Backup via DMX IN with W-DMX signal interruption
			Receive only	W-DMX reception only

Display	Display settings	Display Reverse	**Off**	No display rotation
			On	Display is rotated by 180° (e.g. for overhead installation)
		Display Off Timer	**Always On**	On permanently
			Off after 20 s	Deactivates after approximately 20 seconds of inactivity
		Autolock	**Off**	Autolock function disabled
			On	Operating elements LOCKED after approx. 30 seconds without input. Unlock: Around Press MENU for 3 seconds.
Dimmer	Dimmer settings	Dimmer Curve	**Linear**	Light intensity increases linearly with DMX value
			Exponential	Light intensity can be finely adjusted at lower DMX values and broadly adjusted at higher DMX values
			Logarithmic	Light intensity can be broadly adjusted at lower DMX values and finely adjusted at higher DMX values
			S-curve	Light intensity can be finely adjusted at lower and higher DMX values and broadly adjusted at medium DMX values
		Dimmer Response	**LED**	Lamp responds abruptly to changes in DMX value
			Halogen	The spotlight behaves like a halogen spotlight with slight brightness changes
		PWM Frequency	**650 Hz**, 1530 Hz, 3600 Hz, 12 kHz, 18.9 kHz, 25 kHz	Select LED PWM frequency
Movement	Adjust head movements	Pan Reverse	**Off**	Does not reverse pan direction
			On	Reverses pan direction
		Tilt Reverse	**Off**	Does not reverse tilt direction
			On	Reverses tilt direction
		Pan Angle	**540°**	Pan angle 540°
			630°	Pan angle 630°
		Position Feedback	Off	Automatic position correction is disabled
			On	Automatic position correction is enabled
		Move in Black	**Off**	No blackout during head movement
			On	Blackout during head movement
		Silent Movement	**Off**	Function disabled
			On	Slow motor movements for quieter operation

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Wheels	Adjust the gobo wheels and colour wheel	Gobo Wheel	Position	Clockwise	Gobo wheel always turns clockwise
				Shortest way	Gobo wheel turns the shortest distance
			Move-ment	**Snap**	Gobo wheel jumps directly back to the desired gobo when the relevant value is reached
				Scroll	Continuous rotation of the gobo wheels
		Colour Wheel	Position	Clockwise	Colour wheel always turns clockwise
				Shortest way	Colour wheel turns the shortest distance
			Move-ment	Snap	Colour wheel jumps directly back to the desired colour filter when the relevant value is reached
				Scroll	Continuous rotation of the colour wheels
		Move in Black	**Off**	No blackout in the event of value changes in the colour and gobo wheels	
			On	Blackout in the event of value changes in the colour and gobo wheels	
Fan Set	Fan settings	**Auto**	Automatic fan control		
		Fan Off	Deactivated fan with greatly reduced brightness		
		Constant Low	Constantly low fan speed with reduced brightness, if necessary		
		Constant Mid	Constant average fan speed with reduced brightness, if necessary		
		Constant High	Constant high fan speed		
Signal Fail	Operating status when DMX signal fault occurs	**Hold**	Last command is retained		
		Blackout	Activates blackout		
		Fade Out 10 s	10-second fade to blackout		
		User Preset 1	User Preset 1 is activated		

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Service	Reset settings	Store Default	User default A	Save user settings A
			User default B	Save user settings B
			User default C	Save user settings C
		Load Default	Factory Default	Reset to factory settings: Perform reset with EN-TER, cancel with MENU
			User default A	Reset to User A: Perform reset with ENTER, cancel with MENU
			User default B	Reset to User B: Perform reset with ENTER, cancel with MENU
			User default C	Reset to User C: Perform reset with ENTER, cancel with MENU
		Reset	Pan/Tilt	Reset pan and tilt motors
			Head	Reset all motors in the spotlight head
			All func-tions	Resets all motors
		Password	For service purposes only	

SYSTEM INFORMATION (System Info)

Starting from the main display, press MODE to enter the main menu. Now use ▲ or ▼ to select the menu item **System Info** and confirm with ENTER.

```
-------- Menu --------
  DMX Address
  DMX Mode
  Stand Alone
  Slave
  Settings
► System Info
```

```
---- System Info ----
► Firmware
  Sensor
  Operation Hours
  Errors
```

This will take you to the submenu for accessing the system information (see table, selection with ▲ or ▼, confirm with ENTER, change status with ▲ and ▼, confirm with ENTER).

Info			
Firmware	1U	V1.x.x	
	2U	V1.x.x	
	3U	V1.x.x	
	4U	V1.x.x	
	5U	V1.x.x	
	6U	V1.x.x	

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Sensor	Temperature	LED	xx°C / xx°F
		Base	xx°C / xx°F
	Temperature unit	°C	degrees Celsius
		°F	degrees Fahrenheit
	Fan Speed	LED	Fan revolutions LED xxxxRPM
		Motor	Fan revolutions motors xxxxRPM
		Base	Fan revolutions device base xxxxRPM
Operation Hours	Operation Time	xxxx:xx h	Total operating time
	LED Time	xxxx:xx h	LED unit operating time
Errors	Error display in case of malfunction		

SETUP AND INSTALLATION

⚠️ **HAZARD:** Overhead mounting requires extensive experience, including the calculation of the load limit values of the installation material and regular safety inspection of all installation materials and spotlights. If you do not have these qualifications, do not attempt to perform an installation yourself. Refer instead to a qualified professional. There is a risk that devices that are incorrectly mounted and secured may come loose and fall down. This can cause serious injury or death.

Thanks to its integrated rubber feet, the lamp can be positioned in a suitable location on a level surface. Traverse installation can be achieved with the help of two Omega brackets, which are attached to the base of the device (A). 2 x Omega brackets are included. Suitable beam clamps are available as an option. Ensure firm connections and secure the spotlight to the securing lug (B) with a suitable safety cable.
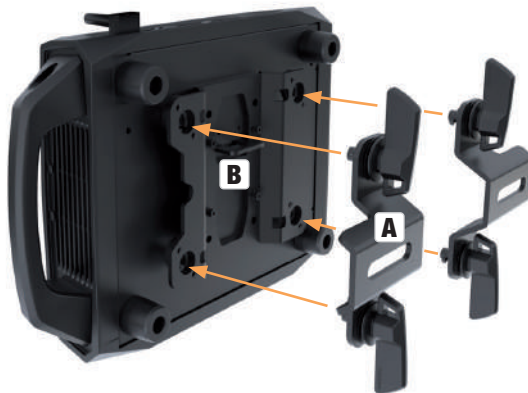
- image similar -

CARE, MAINTENANCE AND REPAIR

In order to ensure the long-term, proper functioning of the device, it must be regularly cleaned and, if necessary, maintained. The maintenance requirement depends on the intensity of use and the environment in which it is used.

We generally recommend a visual inspection before each operation. Furthermore, we recommend carrying out all the applicable maintenance measures specified below once every 500 operating hours or, in the case of a lower intensity of use, at the latest after one year. Warranty claims may be limited in the event of defects resulting from inadequate maintenance.

CARE (carried out by user)

WARNING! Before carrying out any maintenance work, the power supply and, if possible, all device connections must be unplugged.

PLEASE NOTE! Improper care can lead to impairment of the device or even destruction.

1. Housing surfaces must be cleaned with a clean, damp cloth. Make sure that no moisture can penetrate the device.
2. Air inlets and outlets must be regularly cleaned of dust and dirt. If compressed air is used, make sure that damage to the device is prevented (e.g. fans must be blocked in this case).
3. Lines and plug contacts must be cleaned regularly and dust and dirt must be removed.
4. In general, no cleaning agents or abrasive agents may be used, otherwise the surface finish may be damaged.
5. Devices must generally be stored dry and protected from dust and dirt.

MAINTENANCE AND REPAIR (by qualified personnel only)

HAZARD! There are live components in the device. Even after disconnecting the mains connection, there may still be residual voltage in the device, e.g. due to charged capacitors.

PLEASE NOTE! There are no user-serviceable components in the device.

PLEASE NOTE! Maintenance and repair work may only be carried out by qualified specialist personnel authorised by the manufacturer. If in doubt, consult the manufacturer.

PLEASE NOTE! Improperly performed maintenance work may affect warranty claims.

DIMENSIONS (mm)
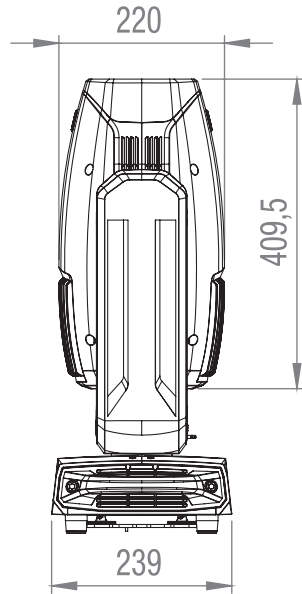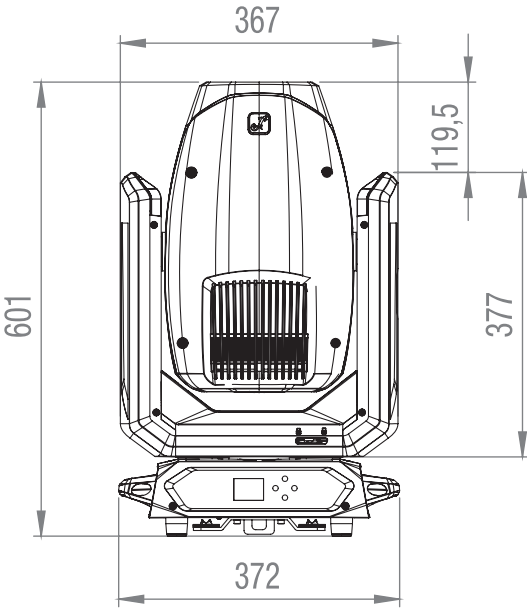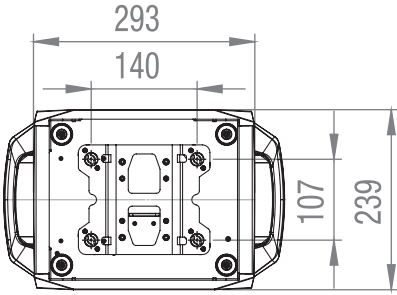
TECHNICAL DATA

PRODUCT NUMBER:	CLAZORS2
Product type:	LED moving light
Type:	Spot
LED colour spectrum:	Cool white 6800 K
Number of LEDs:	1
LED type:	300 W
Beam angle (half-peak divergence):	5° – 50°
Colour mixing system:	CMY
Number of colours:	8 + open and continuously variable colour wheel positioning
Number of gobos:	11 fixed + 8 rotatable & indexable + open
PWM frequency:	650 Hz; 1530 Hz; 3600 Hz; 12 kHz; 18.9 kHz; 25 kHz
DMX input:	5-pin male XLR
DMX output:	5-pin female XLR
DMX mode:	21-CH Basic, 24-CH Standard, 28-CH Extended
DMX functions:	Pan/Tilt, Pan/Tilt fine, Dimmer, Dimmer fine, Strobe, Cyan, Magenta, Yellow, Colour Wheel, Gobo Wheel 1, Gobo Wheel 1 Rotation, Gobo Wheel 1 Rotation fine, Gobo Wheel 2, Zoom, Zoom fine, Focus, Focus fine, Iris, Prisma Selection, Prisma 1, Prisma 2, Frost, Device Settings
Standalone functions:	User Preset 1–4, master/slave mode
Control:	DMX512, RDM, iDMX stick compatible
Pan angle:	540°/630°
Tilt angle:	270°
Operating controls:	MENU, ENTER, arrow up, arrow down
Display elements:	OLED display
Operating voltage:	100–240 V AC/50–60 Hz
Power consumption:	470 W
Luminous flux:	13 000 lm
Power supply connection:	True1 compatible input and output (max. output current 12 A)
Max. Output	9A
Fuse:	T4 AL 250 V (5 x 20 mm)
Ambient temperature (in operation):	0°C to 40°C
Relative air humidity:	< 85%, non-condensing

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PRODUCT NUMBER:	CLAZ0RS2
Minimum distance to illuminated surface:	3 m
Minimum distance to normally flammable materials:	0.5 m
Housing material:	Metal, ABS
Housing colour:	Black
IP protection class:	IP20
Housing cooling:	Temperature-controlled fan
Dimensions (W x H x D, without bracket):	372 x 601 x 238 mm
Weight:	19.7 kg
Additional features:	1 m power cable with True1 compatible plug and 2 x Omega mounting brackets included with the appliance

MINIMUM DISTANCE TO ILLUMINATED SURFACE
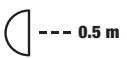
This symbol with distance specification in metres (m) indicates the minimum distance between the light head and the illuminated surface. In this example, the distance is 0.5 m. The value applicable for this unit can be found in the technical data in this manual and the imprint on the unit housing!

MINIMUM DISTANCE TO NORMALLY FLAMMABLE MATERIALS
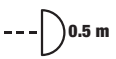
This symbol with distance specification in metres (m) indicates the minimum distance between the light head and normally flammable materials. In this example, the distance is 0.5 m. The value applicable for this unit can be found in the technical data in this manual!

DISPOSAL

Packaging:

1. Packaging can be fed into the reusable material cycle using the usual disposal methods.
2. Please separate the packaging in accordance with the disposal laws and recycling regulations in your country.

Device:

1. This device is subject to the European Directive on Waste Electrical and Electronic Equipment, as amended. WEEE Directive Waste Electrical and Electronic Equipment. Old appliances do not belong in household waste. The old device must be disposed of via an approved disposal company or a municipal disposal facility. Please observe the applicable regulations in your country!
2. Observe all disposal laws and regulations applicable in your country.
3. As a private customer, you can obtain information on environmentally-friendly disposal options from the seller of the product or the appropriate regional authorities.

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MANUFACTURER'S DECLARATIONS

MANUFACTURER'S WARRANTY & LIMITATION OF LIABILITY

Adam Hall GmbH, Adam-Hall-Str. 1, 61267 Neu Anspach, Germany / E-mail Info@adamhall.com / +49 (0)6081 / 9419-0.
Our current warranty conditions and limitation of liability can be found at:
https://cdn-shop.adamhall.com/media/pdf/Manufacturers-Declarations-CAMEO_DE_EN_ES_FR.pdf
Contact your distribution partner for service.

CE CONFORMITY

Adam Hall GmbH hereby confirm that this product meets the following guidelines (where applicable)
:
Low-Voltage Directive (2014/35/EU)
EMC Directive (2014/30/EU)
RoHS (2011/65/EU)
RED (2014/53/EU)

EC DECLARATION OF CONFORMITY

Declarations of conformity for products subject to the LVD, EMC, RoHS Directive
can be requested from info@adamhall.com.
Declarations of conformity for products subject to RED can be downloaded from
www.adamhall.com/compliance/.

SUBJECT TO MISPRINTS AND ERRORS, AS WELL AS TECHNICAL OR OTHER MODIFICA-TIONS!

DMX CONTROL / DMX STEUERUNG / PILOTAGE DMX / CONTROL DMX / STEROWANIE DMX / CONTROLLO DMX

21CH	24CH	28CH						
Basic	Standard	Extended						
			Function	Values			Subgroup	Group
1	1	1	Pan	000	-	255	Pan	Movement
2	2	2	Pan fine	000	-	255		
3	3	3	Tilt	000	-	255	Tilt	
4	4	4	Tilt fine	000	-	255		
5	5	5	Dimmer	000	-	255	Dimmer	Intensity
	6	6	Dimmer fine	000	-	255		
6	7	7	Strobe Functions	000	-	005	Multi-functional Strobe	Strobe
				006	-	010		
				011	-	022		
				023	-	033		
				034	-	045		
				046	-	056		
				057	-	068		
				069	-	079		
				080	-	102		
				103	-	127		
				128	-	250		
				251	-	255		
7	8	8	Cyan	000	-	255	Subtractive Color Mixing	
		9	Cyan fine	000	-	255		
8	9	10	Magenta	000	-	255		
		11	Magenta fine	000	-	255		
9	10	12	Yellow	000	-	255		
		13	Yellow fine	000	-	255		

Values detail for Strobe Functions:

Range	Description
000 - 005	Open
006 - 010	Closed
011 - 022	Ramp up/down slow to fast
023 - 033	Ramp up/down random slow to fast
034 - 045	Ramp up slow to fast
046 - 056	Ramp up random slow to fast
057 - 068	Ramp down slow to fast
069 - 079	Ramp down random slow to fast
080 - 102	Random Strobe effect slow to fast
103 - 127	Strobe Break effect 5s to 1s (Short burst with break)
128 - 250	Strobe slow to fast (<1Hz to 20Hz)
251 - 255	Open

Values "0% to 100%" apply to: Pan, Pan fine, Tilt, Tilt fine, Dimmer, Dimmer fine, Cyan, Cyan fine, Magenta, Magenta fine, Yellow, Yellow fine.

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				000	-	000	Open		
				001	-	020	Open -> Deep Red		
				021	-	021	Deep Red		
				022	-	041	Deep Red -> Medium Blue		
				042	-	042	Medium Blue		
				043	-	062	Medium Blue -> Deep Green		
				063	-	063	Deep Green		
				064	-	083	Deep Green -> Lime		
				084	-	084	Lime		
				085	-	104	Lime -> High CRI		
				105	-	105	High CRI		
				106	-	125	High CRI -> Deep Orange		
10	11	14	Colour Wheel	126	-	126	Deep Orange	Colour Wheel	
				127	-	147	Deep Orange -> CTO 3200K		
				148	-	148	CTO 3200K		
				149	-	168	CTO 3200K -> Congo Blue		
				169	-	169	Congo Blue		
				170	-	189	Congo Blue -> Open		
				190	-	192	Open		
				193	-	223	Color Wheel Rotation fast to slow		
				224	-	224	Color Wheel Rotation stop		
				225	-	255	Color Wheel Rotation slow to fast (backwards)		
				000	-	005	Open		
				006	-	021	Open -> Gobo1		
				022	-	022	Gobo 1		
11	12	15	Gobo Wheel 1	023	-	038	Gobo 1 -> Gobo 2	Rotating Gobowheel	Gobo
				039	-	039	Gobo 2		
				040	-	055	Gobo 2 -> Gobo 3		
				056	-	056	Gobo 3		

				057	-	072	Gobo 3 -> Gobo 4		
				073	-	073	Gobo 4		
				074	-	089	Gobo 4 -> Gobo 5		
				090	-	090	Gobo 5		
				091	-	106	Gobo 5 -> Gobo 6		
				107	-	107	Gobo 6		
				108	-	123	Gobo 6 -> Gobo 7		
				124	-	124	Gobo 7		
				125	-	140	Gobo 7 -> Gobo 8		
				141	-	141	Gobo 8		
				142	-	157	Gobo 8 -> Open		
				158	-	159	Open		
				160	-	162	Gobo Shake 1 (slow -> fast)		
				163	-	165	Gobo Shake 2 (slow -> fast)		
				166	-	168	Gobo Shake 3 (slow -> fast)		
11	12	15	Gobo Wheel 1	169	-	171	Gobo Shake 4 (slow -> fast)	Rotating Gobowheel	Gobo
				172	-	174	Gobo Shake 5 (slow -> fast)		
				175	-	177	Gobo Shake 6 (slow -> fast)		
				178	-	180	Gobo Shake 7 (slow -> fast)		
				181	-	183	Gobo Shake 8 (slow -> fast)		
				184	-	192	Open		
				193	-	223	Gobo Wheel rotation fast -> slow, fwd		
				224	-	224	Gobo Wheel rotation Stop		
				225	-	255	Gobo Wheel rotation slow -> fast, bwd		
12	13	16	Gobo 1 Rotation	000	-	128	Gobo Position 0° ... 540°		

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12	13	16	Gobo Wheel 1	129	-	191	Gobo Rotation fast to slow	Rotating Gobowheel	
				192	-	192	Gobo Rotation Stop		
				193	-	255	Gobo Rotation slow to fast (backwards)		
	14	17	Gobo 1 Rotation fine	000	-	255	Gobo Rotation fine		
				000	-	005	Open	Static Gobowheel	Gobo
				006	-	009	Open -> Gobo1		
				010	-	010	Gobo 1		
				011	-	022	Gobo 1 -> Gobo 2		
				023	-	023	Gobo 2		
				024	-	035	Gobo 2 -> Gobo 3		
				036	-	036	Gobo 3		
				037	-	048	Gobo 3 -> Gobo 4		
				049	-	049	Gobo 4		
				050	-	061	Gobo 4 -> Gobo 5		
				062	-	062	Gobo 5		
				063	-	074	Gobo 5 -> Gobo 6		
				075	-	075	Gobo 6		
				076	-	087	Gobo 6 -> Gobo 7		
				088	-	088	Gobo 7		
				089	-	100	Gobo 7 -> Gobo 8		
				101	-	101	Gobo 8		
13	15	18	Gobo Wheel 2	102	-	113	Gobo 8 -> Gobo 9		
				114	-	114	Gobo 9		
				115	-	126	Gobo 9 -> Gobo 10		
				127	-	127	Gobo 10		
				128	-	139	Gobo 10 -> Gobo 11		
				140	-	140	Gobo 11		
				141	-	152	Gobo 11 -> Open		
				153	-	155	Open		
				156	-	158	Gobo Shake 1 (slow -> fast)		
				159	-	161	Gobo Shake 2 (slow -> fast)		
				162	-	164	Gobo Shake 3 (slow -> fast)		
				165	-	167	Gobo Shake 4 (slow -> fast)		

				168	-	170	Gobo Shake 5 (slow -> fast)		
				171	-	173	Gobo Shake 6 (slow -> fast)		
				174	-	176	Gobo Shake 7 (slow -> fast)		
				177	-	179	Gobo Shake 8 (slow -> fast)		
				180	-	182	Gobo Shake 9 (slow -> fast)		
13	15	18	Gobo Wheel 2	183	-	185	Gobo Shake 10 (slow -> fast)	Static Gobowheel	Gobo
				186	-	188	Gobo Shake 11 (slow -> fast)		
				189	-	192	Open		
				193	-	223	Gobo Wheel rotation fast -> slow, fwd		
				224	-	224	Gobo Wheel rotation Stop		
				225	-	255	Gobo Wheel rotation slow -> fast, bwd		
14	16	19	Zoom	000	-	255	Narrow to Wide	Zoom	
		20	Zoom fine	000	-	255			
15	17	21	Focus	000	-	255	0% to 100%	Focus	
	18	22	Focus fine	000	-	255			
				000	-	191	Open to Close		
				192	-	200	Pulse slow to fast (with Dim)		
				201	-	209	Pulse slow to fast (without Dim)		
				210	-	218	Pulse Random slow to fast (without Dim)		
16	19	23	Iris	219	-	227	Ramp up slow to fast (with Dim)	Iris	Beam
				228	-	236	Ramp up slow to fast (without Dim)		
				237	-	245	Ramp down slow to fast (with Dim)		
				246	-	255	Ramp down slow to fast (without Dim)		

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17	20	24	Prism Selection	000	-	005	Prism Off	Prism	Beam
				006	-	091	Prism 1		
				092	-	175	Prism 2		
				176	-	255	Prism 1 & 2		
18	21	25	Prism 1	000	-	128	Prism Position 0° to 540°		
				129	-	191	Prism Rotation fast to slow		
				192	-	192	Prism Rotation Stop		
				193	-	255	Prism Rotation slow to fast (backwards)		
19	22	26	Prism 2	000	-	128	Prism Position 0° to 540°		
				129	-	191	Prism Rotation fast to slow		
				192	-	192	Prism Rotation Stop		
				193	-	255	Prism Rotation slow to fast (backwards)		
20	23	27	Frost	000	-	255	0% to 100%	Frost	
21	24	28	Device settings (All settings executed are after holding value for 3 seconds) (please read remark 1*)	000	-	005	No function		Control
				006	-	007	Blackout while P/T moving On	Blackout	
				008	-	009	Blackout while P/T moving Off		
				010	-	011	Blackout while Wheels moving On		
				012	-	013	Blackout while Wheels moving Off		
				014	-	024	No function		
				025	-	025	Record User Preset 1	User Colors	
				026	-	026	Record User Preset 2		
				027	-	027	Record User Preset 3		
				028	-	028	Record User Preset 4		

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21	24	28							
				029	-	029	Record User Preset 5	User Colors	
				030	-	030	Record User Preset 6		
				031	-	031	Record User Preset 7		
				032	-	032	Record User Preset 8		
				033	-	041	No function		
				042	-	043	Invert Pan On	Movement	
				044	-	045	Invert Pan Off		
				046	-	047	Invert Tilt On		
				048	-	049	Invert Tilt Off		
				050	-	051	Pan Angle 540°		
				052	-	053	Pan Angle 630°		
				054	-	073	No function		
			Device settings (All settings executed are after holding value for 3 seconds) (please read remark 1*)	074	-	075	Dimmer Response LED	Dimming	Control
				076	-	077	Dimmer Response Halogen		
				078	-	093	No function		
				094	-	095	Silent movement On	Noise Functions	
				096	-	097	Silent movement Off		
				098	-	099	Fan Auto		
				100	-	101	Fan Off		
				102	-	103	Fan Constant Low		
				104	-	105	Fan Constant Medium		
				106	-	107	Fan Constant High		
				108	-	119	No function		
				120	-	121	PWM 1 (650 Hz)	PWM Frequency	
				122	-	123	PWM 2 (1530 Hz)		
				124	-	125	PWM 3 (3600 Hz)		
				126	-	127	PWM 4 (12000 Hz)		
				128	-	129	PWM 5 (18900 Hz)		
				130	-	131	PWM 6 (25000 Hz)		
				132	-	139	No function		

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				140	-	141	Display Always On	Display Functions	
				142	-	143	Display Off after 20s		
				144	-	147	No function		
				148	-	149	Color Wheel Snap	Wheel Movement	
				150	-	151	Color Wheel Scroll		
				152	-	153	Gobo Wheel Snap		
				154	-	155	Gobo Wheel Scroll		
				156	-	157	Gobo Color Correction On	Gobo Color Correction	
				158	-	159	Gobo Color Correction Off		
				160	-	161	Rotating Gobo calibration On	Rotating Gobo Calibration	
21	24	28	Device settings (All settings executed are after holding value for 3 seconds) (please read remark 1*)	162	-	163	Rotating Gobo calibration Off		Control
				164	-	165	Dimmer Curve Linear	Dimmer Curve	
				166	-	167	Dimmer Curve Exponential		
				168	-	169	Dimmer Curve Logarithmic		
				170	-	171	Dimmer Curve S-Curve		
				172	-	209	No function		
				210	-	211	Color Wheel Shortest Way	Wheel Positioning	
				212	-	213	Color Wheel Clockwise		
				214	-	215	Gobo Wheel Shortest Way		
				216	-	217	Gobo Wheel Clockwise		
				218	-	221	No function		
				222	-	223	Reset Pan / Tilt	Reset	
				224	-	233	No function		
				234	-	235	Reset Head complete		
				236	-	237	Reset All		
				238	-	239	No function		

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21	24	28	Device settings (All settings executed are after holding value for 3 seconds) (please read remark 1*)	240	-	241	Load Factory Defaults (2*)	Load Default	Control
				242	-	243	No function		
				244	-	245	Load User Default A (2*)		
				246	-	247	Load User Default B (2*)		
				248	-	249	Load User Default C (2*)		
				250	-	255	No function		

EN: (1*)	After the adjustments have been made, set the value to 000 to avoid disturbance by endless function call.
EN: (2*)	No effect at all control settings (DMX Address, DMX Mode, Wireless, …)
DE: (1*)	Nachdem die Einstellungen vorgenommen wurden, stellen Sie den Wert auf 000 ein, um Störungen durch endlosen Funktionsaufruf zu vermeiden.
FR: (1*)	Une fois les ajustements effectués, réglez la valeur sur 000 pour éviter les perturbations par appel de fonction sans fin.
ES: (1*)	Después de realizar los ajustes, establezca el valor en 000 para evitar perturbaciones mediante una llamada de función sin fin.
PL: (1*)	Po dokonaniu ustawień ustaw wartość na 000, aby uniknąć zakłóceń przez niekończące się wywołanie funkcji.
IT: (1*)	Dopo aver effettuato le regolazioni, impostare il valore su 000 per evitare disturbi causati da una chiamata a funzione infinita.

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