

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



LED THEATER SPOT **40** WW / **60** RGBW
CLTS40WW(WH) / CLTS60RGBW(WH)

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YOU'VE MADE THE RIGHT CHOICE!

We have designed this product to operate reliably over many years. Please read this User's Manual carefully, so that you can begin making optimum use of your Cameo Light product quickly. Learn more about Cameo Light on our website WWW.CAMEOLIGHT.COM.

PREVENTIVE MEASURES

1. Please read these instructions carefully.
2. Keep all information and instructions in a safe place.
3. Follow the instructions.
4. Observe all safety warnings. Never remove safety warnings or other information from the equipment.
5. Use the equipment only in the intended manner and for the intended purpose.
6. Use only sufficiently stable and compatible stands and/or mounts (for fixed installations). Make certain that wall mounts are properly installed and secured. Make certain that the equipment is installed securely and cannot fall down.
7. During installation, observe the applicable safety regulations for your country.
8. Never install and operate the equipment near radiators, heat registers, ovens or other sources of heat. Make certain that the equipment is always installed so that it is cooled sufficiently and cannot overheat.
9. Never place sources of ignition, e.g., burning candles, on the equipment.
10. Ventilation slits must not be blocked.
11. This appliance is designed exclusively for indoor use, do not use this equipment in the immediate vicinity of water (does not apply to special outdoor equipment - in this case, observe the special instructions noted below). Do not expose this equipment to flammable materials, fluids or gases.
12. Make certain that dripping or splashed water cannot enter the equipment. Do not place containers filled with liquids, such as vases or drinking vessels, on the equipment.
13. Make certain that objects cannot fall into the device.
14. Use this equipment only with the accessories recommended and intended by the manufacturer.
15. Do not open or modify this equipment.
16. After connecting the equipment, check all cables in order to prevent damage or accidents, e.g., due to tripping hazards.
17. During transport, make certain that the equipment cannot fall down and possibly cause property damage and personal injuries.
18. If your equipment is no longer functioning properly, if fluids or objects have gotten inside the equipment or if it has been damaged in any other way, switch it off immediately and unplug it from the mains outlet (if it is a powered device). This equipment may only be repaired by authorized, qualified personnel.
19. Clean the equipment using a dry cloth.
20. Comply with all applicable disposal laws in your country. During disposal of packaging, please separate plastic and paper/cardboard.
21. Plastic bags must be kept out of reach of children.

FOR EQUIPMENT THAT CONNECTS TO THE POWER MAINS:

22. CAUTION: If the power cord of the device is equipped with an earthing contact, then it must be connected to an outlet with a protective ground. Never deactivate the protective ground of a power cord.
23. If the equipment has been exposed to strong fluctuations in temperature (for example, after transport), do not switch it on immediately. Moisture and condensation could damage the equipment. Do not switch on the equipment until it has reached room temperature.
24. Before connecting the equipment to the power outlet, first verify that the mains voltage and frequency match the values specified on the equipment. If the equipment has a voltage selection switch, connect the equipment to the power outlet only if the equipment values and the mains power values match. If the included power cord or power adapter does not fit in your wall outlet, contact your electrician.
25. Do not step on the power cord. Make certain that the power cable does not become kinked, especially at the mains outlet and/or power adapter and the equipment connector.
26. When connecting the equipment, make certain that the power cord or power adapter is always freely accessible. Always disconnect the equipment from the power supply if the equipment is not in use or if you want to clean the equipment. Always unplug the power cord and power adapter from the power outlet at the plug or adapter and not by pulling on the cord. Never touch the power cord and power adapter with wet hands.
27. Whenever possible, avoid switching the equipment on and off in quick succession because otherwise this can shorten the useful life of the equipment.
28. IMPORTANT INFORMATION: Replace fuses only with fuses of the same type and rating. If a fuse blows repeatedly, please contact an authorised service centre.
29. To disconnect the equipment from the power mains completely, unplug the power cord or power adapter from the power outlet.
30. If your device is equipped with a Volex power connector, the mating Volex equipment connector must be unlocked before it can be removed. However, this also means that the equipment can slide and fall down if the power cable is pulled, which can lead to personal injuries and/or other damage. For this reason, always be careful when laying cables.
31. Unplug the power cord and power adapter from the power outlet if there is a risk of a lightning strike or before extended periods of disuse.
32. The device must only be installed in a voltage-free condition (disconnect the mains plug from the mains).
33. Dust and other debris inside the unit may cause damage. The unit should be regularly serviced or cleaned (no guarantee) depending on ambient conditions (dust etc., nicotine, fog) by qualified personnel to prevent overheating and malfunction.
34. Please keep a distance of at least 0.5 m to any combustible materials.
35. Power cables to power multiple devices must have a cross-section of at least 1.5 mm². Within the EU, the cables must correspond to H05VV-F, or similar. Suitable cables are offered by Adam Hall. With these cables, you can connect multiple devices via the power OUT connection to the power IN connection of an additional device. Make sure that the total current consumption of all connected devices does not exceed the specified value on all connected devices (label on the device). Make sure to keep power cable connections as short as possible.

**CAUTION:**

To reduce the risk of electric shock, do not remove cover (or back). There are no user serviceable parts inside. Maintenance and repairs should be exclusively carried out by qualified service personnel.



The warning triangle with lightning symbol indicates dangerous uninsulated voltage inside the unit, which may cause an electrical shock.



The warning triangle with exclamation mark indicates important operating and maintenance instructions.



Warning! This symbol indicates a hot surface. Certain parts of the housing can become hot during operation. After use, wait for a cool-down period of at least 10 minutes before handling or transporting the device.

CAUTION! IMPORTANT INFORMATION ABOUT LIGHTING PRODUCTS!

1. The product has been developed for professional use in the field of event technology and is not suitable as household lighting.
2. Do not stare, even temporarily, directly into the light beam.
3. Do not look at the beam directly with optical instruments such as magnifiers.
4. Stroboscope effects may cause epileptic seizures in sensitive people! People with epilepsy should definitely avoid places where strobes are used.

INTRODUCTION**CONTROL FUNCTIONS:**

1-channel, 3-channel, 5-channel DMX control (CLTS40WW)

3-channel, 4-channel, 5-channel, 7-channel and 13-channel DMX control (CLTS60RGBW)

Master / Slave mode

Standalone Functions

FEATURES CLTS40WW:

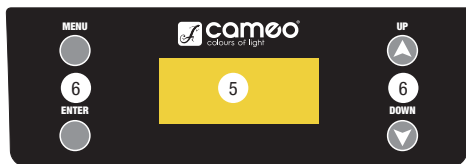
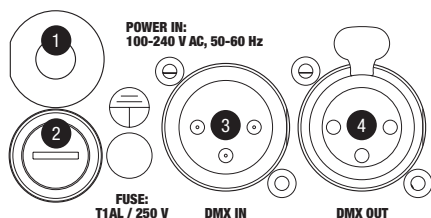
1 x high-power 40 W warm white COB LED, 15° - 38° beam angle, 1,200 Hz refresh rate, DMX-512 control, RDM enabled, manual control, manual zoom, 16 bit dimming, master / slave operation, operating voltage 100 V - 240 V AC / 50 - 60 Hz, power consumption 40 W, mounting bracket and winged barndoor included.

FEATURES CLTS60RGBW:

1 x high-power 60 W RGBW COB LED, RGBW colour mixing, 10° - 41° beam angle, 3,600 Hz refresh rate, DMX-512 control, RDM enabled, manual control, manual zoom, 16 bit dimming, master / slave operation, operating voltage 100 V - 240 V AC / 50 - 60 Hz, power consumption 65 W, mounting bracket and winged barndoor included.

The spotlight is compliant with the RDM standard (Remote Device Management). This remote management system allows the status query and configuration of RDM devices via an RDM enabled controller.

CONNECTIONS, CONTROLS AND INDICATORS



1 POWER IN

Firmly connected 1 meter power cable with plug (CEE 7/7). Operating voltage 100 - 240 V AC / 50 - 60 Hz.

2 FUSE

Fuse holder for 5 x 20 mm fine-wire fuses **IMPORTANT INFORMATION:** Replace the fuse only with a fuse of the same type and rating. If the fuse blows repeatedly, please contact an authorised service centre.

3 DMX IN

3-pin male XLR socket for connection of a DMX controller (e.g. DMX console).

4 DMX OUT

3-pin female XLR socket for looping through the DMX control signal.

5 BACKLIT LC DISPLAY

Displays the operating mode and other system settings.

6 CONTROL BUTTONS

MENU

Pressing MENU will take you to the selection menu for system settings. Repeatedly pressing MODE takes you back to the main display.

ENTER

Makes it possible to change a value and confirm changes.

UP and DOWN buttons

Press the UP and DOWN buttons for example, to adjust the DMX address or the system settings.



7 ZOOM

Knurled knob for adjusting the beam size (right stop = maximum beam size, left stop = minimum beam size).

8 SAFETY EYELET

Overhead installation should only be carried out by trained personnel. The spotlight must be secured with appropriate safety ropes to prevent falling.

OPERATION CLTS40WW

NOTE:

When the spotlight is properly connected to the mains, the following information appears successively on the display during the startup process: "Update Wait ..." (only for service purposes), "Welcome to Cameo", "Fresnel" and the software version. After this step, the spot is ready for operation and the operating mode that was previously selected is activated.

MAIN DISPLAY DMX MODE

In the upper line of the display, "DMX Addr" is displayed and in the lower line the currently set DMX start address. As soon as the DMX signal is interrupted, the display starts flashing; if the DMX signal is present again, the display stops flashing. The main display is automatically activated if no input is made within about 30 seconds.

```
DMX Addr
001
```

MAIN DISPLAY STANDALONE MODE

In the lower line of the display, the currently set operating Standalone mode is displayed (e.g. Slave, Static). The main display is automatically activated if no input is made within about 30 seconds.

```
Slave
```

```
Static
```

SETTING THE DMX MODE

Pressing MENU will take you to the selection menu for system settings. Using UP and DOWN, select the menu item "Mode" (lower line) and confirm with ENTER. Now use the UP and DOWN buttons once more to select the "DMX" sub-menu item and confirm by pressing ENTER. Using UP and DOWN, select the desired DMX mode (1CH, 3CH, 5CH) and confirm with ENTER. Press MENU twice to return to the main display. The main display is automatically activated if no input is made within about 30 seconds. You will find tables with the channels of the different DMX modes in this manual under DMX CONTROL.

Menu Mode	Mode DMX	DMX Mode 5CH
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SELECTING THE DMX START ADDRESS

Pressing MENU will take you to the selection menu for system settings. Using UP and DOWN, select the menu item "DMX Addr" and confirm with ENTER. Now you can select the DMX start address as desired by using the UP and DOWN buttons. Confirm with ENTER and press MENU once to return to the main display. The main display is automatically activated if no input is made within about 30 seconds.

Menu DMX Addr	DMX Addr 001
------------------	-----------------

STATIC MODE

Pressing MENU will take you to the selection menu for system settings. Using UP and DOWN, select the menu item "Static" and confirm by pressing ENTER twice. Now you can select the brightness of the spotlight as desired with values ranging from 000 (Blackout) to 255 (maximum brightness) by using the UP and DOWN buttons. Confirm with ENTER and press MENU once more to return to the main display. The main display is automatically activated if no input is made within about 30 seconds.

Mode Static	Static Dimmer	Dimmer 255
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SLAVE MODE

Pressing MENU will take you to the selection menu for system settings. Using UP and DOWN, select the menu item "Mode" (lower line) and confirm with ENTER. Now use the UP and DOWN buttons once more to select the "Slave" sub-menu item and confirm by pressing ENTER. Connect the slave and the master unit (same model) with a DMX cable and activate the Static standalone mode on the master unit. Now the slave unit follows the master unit. Press MENU once more to return to the main display. The main display is automatically activated if no input is made within about 30 seconds.

Menu Mode	Mode Slave
--------------	---------------

DEVICE SETTINGS

Pressing MENU will take you to the selection menu for system settings. Using UP and DOWN, select the menu item "Settings" and confirm with ENTER. You will then be taken to the sub-menu to set the sub-menu items (see table). Press MENU once more to return to the main display. The main display is automatically activated if no input is made within about 30 seconds.

Menu Stettings	Settings Display	Settings DMX Fail	Settings DimCurve	Settings DimResp.
-------------------	---------------------	----------------------	----------------------	----------------------

Settings				
Display	=	Display lighting	Backlight ON	permanently on
			Backlight Off	deactivation after approx. 30 seconds of inactivity
DMX Fail	=	Operation status with DMX signal interruption	Hold	last DMX command is held
			Blackout	activates Blackout
DimCurve	=	Dimmer Curve	Linear	The light intensity increases linearly with the DMX value.
			Exp	Adjustment of the light intensity is finer in the lower DMX value range and coarser in the upper DMX value range.
			Log	The light intensity can be adjusted coarsely in the lower DMX value range, and finely in the upper DMX value range.
			S Curve	The adjustment of the light intensity is finer in the lower and upper DMX value ranges and coarser in the middle DMX value range.
DimResp.	=	Dimmer response	LED	The spotlight responds abruptly to changes in the DMX value.
			Halogen	The spotlight behaves in a manner similar to that of a halogen lamp with gentle changes in brightness.

DEVICE INFORMATION

Pressing MENU will take you to the selection menu for system settings. Using UP and DOWN, select the menu item "Sys Info" and confirm with ENTER. You will then be taken to the sub-menu to display the device information. Use the UP and DOWN panels again to select the desired sub-menu item and then press ENTER to retrieve the information (see table). Press MENU once more to return to the main display. The main display is automatically activated if no input is made within about 30 seconds.

Menu Sys Info	Sys Info Temp	Sys Info Op. Hours	Sys Info Firmware
------------------	------------------	-----------------------	----------------------

Sys Info				
Temp	=	Temperature display of the LED unit	Temp LED	xxC / xxF
			Temp C°/F°	°C (= display in degrees Celsius)
				°F (= display in degrees Fahrenheit)
Op.Hours	=	Operating time display	Hour Total	Displays the total operating time in hours
Firmware	=	Displays the device software version		Vx. xx

OPERATION CLTS60RGBW

NOTE:

When the spotlight is properly connected to the mains, the following information appears successively on the display during the startup process: "Update Wait ..." (only for service purposes), "Welcome to Cameo", "Fresnel" and the software version. After this step, the spot is ready for operation and the operating mode that was previously selected is activated.

MAIN DISPLAY DMX MODE

In the upper line of the display, "DMX Addr" is displayed and in the lower line the currently set DMX start address. As soon as the DMX signal is interrupted, the display starts flashing; if the DMX signal is present again, the display stops flashing. The main display is automatically activated if no input is made within about 30 seconds.

DMX Addr
001

MAIN DISPLAY STANDALONE MODE

In the lower line of the display, the currently set operating Standalone mode is displayed (Sound, Slave, Auto, Static, Macro). The main display is automatically activated if no input is made within about 30 seconds.

Sound

Slave

Auto

Static

Macro

SETTING THE DMX MODE

Pressing MENU will take you to the selection menu for system settings. Using UP and DOWN, select the menu item "Mode" (lower line) and confirm with ENTER. Now use the UP and DOWN buttons once more to select the "DMX" sub-menu item and confirm by pressing ENTER. Using UP and DOWN, select the desired DMX mode (3CH, 4CH, 5CH, 7CH, 13CH) and confirm with ENTER. Press MENU once more to return to the main display. The main display is automatically activated if no input is made within about 30 seconds. You will find tables with the channels of the different DMX modes in this manual under DMX CONTROL.

Menu
Mode

Mode
DMX

DMX Mode
13CH

SELECTING THE DMX START ADDRESS

Pressing MENU will take you to the selection menu for system settings. Using UP and DOWN, select the menu item "DMX Addr" and confirm with ENTER. Now you can select the DMX start address as desired by using the UP and DOWN buttons. Confirm with ENTER and press MENU once to return to the main display. The main display is automatically activated if no input is made within about 30 seconds.

Menu
DMX Addr

DMX Addr
001

MUSIC CONTROL MODE

Pressing MENU will take you to the selection menu for system settings. Using UP and DOWN, select the menu item "Mode" (lower line) and confirm with ENTER. Now use the UP and DOWN buttons once more to select the "Sound" sub-menu item and confirm by pressing ENTER. The Music Control mode is now activated and you can set the sensitivity to which the spotlight reacts to noise (bass pulses) as desired using the UP and DOWN buttons (Mic Sens 00 - 99). Confirm with ENTER and press MENU once more to return to the main display. The main display is automatically activated if no input is made within about 30 seconds.

Menu
Mode

Mode
Sound

Mic Sens
99

SLAVE MODE

Pressing MENU will take you to the selection menu for system settings. Using UP and DOWN, select the menu item "Mode" (lower line) and confirm with ENTER. Now use the UP and DOWN buttons once more to select the "Slave" sub-menu item and confirm by pressing ENTER.

Connect the slave and the master unit (same model) with a DMX cable and activate one of the standalone modes (Sound, Auto, Static, Macro) on the master unit. Now the slave unit follows the master unit. Press MENU once more to return to the main display. The main display is automatically activated if no input is made within about 30 seconds.

Menu
Mode

Mode
Slave

AUTO MODE

Pressing MENU will take you to the selection menu for system settings. Using UP and DOWN, select the menu item "Mode" (lower line) and confirm with ENTER. Now use the UP and DOWN buttons once more to select the "Auto" sub-menu item, confirm by pressing ENTER twice to adjust the program speed using UP and DOWN (Program Speed: 00 - 99). Confirm with ENTER and press MENU three times to return to the main display. The main display is automatically activated if no input is made within about 30 seconds.

Menu
Mode

Mode
Auto

Auto
Program

Program
Speed: 99

STATIC MODE

In the same way as with a DMX control unit, the static mode allows you to adjust all functions such as Dimmer, Strobe and Colour Macros directly on the device with values from 000 to 255. Thus, an individual scene can be created without an additional DMX controller. Pressing MENU will take you to the selection menu for system settings. Using UP and DOWN, select the menu item "Mode" (lower line) and confirm with ENTER. Now use the UP and DOWN buttons once more to select the "Static" menu item and confirm by pressing ENTER. Using the UP and DOWN buttons, select the desired function and confirm with ENTER. The value (Dimmer, Strobe etc., see table) of the corresponding function can now be set from 000 to 255 and press ENTER to confirm the input. Once all of the parameters have been set as desired, press MODE three times to return to the main display. The main display is automatically activated if no input is made within about 30 seconds.

Mode
Static

Static				
Function	Values			
Dimmer	000	-	255	0% to 100%
Dim fine	000	-	255	0% to 100%
Strobe	000	-	005	Strobe open
	006	-	255	Strobe slow -> fast <1 Hz - 20 Hz
Red	000	-	255	0% to 100%
Green	000	-	255	0% to 100%
Blue	000	-	255	0% to 100%
White	000	-	255	0% to 100%

Macro	000	-	005	Colour off
	006	-	013	Red
	014	-	021	Amber
	022	-	029	Yellow warm
	030	-	037	Yellow
	038	-	045	Green
	046	-	053	Turquoise
	054	-	061	Cyan
	062	-	069	Blue
	070	-	077	Lavender
	078	-	085	Mauve
	086	-	093	Magenta
	094	-	101	Pink
	102	-	109	Warm White
	110	-	117	White
	118	-	125	Cold White
	126	-	127	Colour Jumping Stop
	128	-	191	Colour Jumping Speed slow -> fast / Colour 1 -> 12
	192	-	255	Colour Fading Speed slow -> fast / Colour 1 -> 12
CTC (affects RGB and Colour Macros)	000	-	005	Off
	006	-	255	7200 K - 3200 K @ Full on affects colours too
Speed	000	-	005	Off
	001	-	255	Auto Program Speed slow -> fast
Sound (if on, override everything)	000	-	005	Sound Control OFF (Mic Sensitivity)
	006	-	255	Sound Control ON Low -> High (Mic Sensitivity)
DimCurve	000	-	005	No function
	006	-	063	Linear Dimmer Curve
	064	-	127	Exponential Dimmer Curve
	128	-	191	Logarithmic Dimmer Curve
	192	-	255	S-Curve Dimmer Curve
Settings	000	-	005	No function
	006	-	063	Dimmer Response LED (Hold 3s)
	064	-	127	Dimmer Response Halogen (Hold 3s)
	128	-	191	Silent Fan on (Hold 3s)
	192	-	255	Silent Fan off (Hold 5s)

COLOUR MACROS

Pressing MENU will take you to the selection menu for system settings. Using UP and DOWN, select the menu item "Mode" (lower line) and confirm with ENTER. Now use the UP and DOWN buttons once more to select the "Macro" menu item and confirm by pressing ENTER. Using the UP and DOWN buttons, one of the 15 different Colour Macros can now be selected (see table). Confirm the input with ENTER.

Menu Mode		Mode Macro			
1	Red	6	Turquoise	11	Magenta
2	Amber	7	Cyan	12	Pink
3	Yellow warm	8	Blue	13	Warm White
4	Yellow	9	Lavender	14	White
5	Green	10	Mauve	15	Cold White

DEVICE SETTINGS

Pressing MENU will take you to the selection menu for system settings. Using UP and DOWN, select the menu item "Settings" and confirm with ENTER. You will then be taken to the sub-menu to set the sub-menu items (Select and adjust by pressing ENTER and UP and DOWN, for submenu items, see table). Press MENU once more to return to the main display. The main display is automatically activated if no input is made within about 30 seconds.

Menu Settings	Settings Display	Settings DMX Fail	Settings DimCurve	Settings DimResp	Settings Calibrat
------------------	---------------------	----------------------	----------------------	---------------------	----------------------

Settings					
Display	=	Display lighting	Backlight ON	permanently on	
			Backlight Off	deactivation after approx. 30 seconds of inactivity	
DMX Fail	=	Operation status with DMX signal interruption	Hold	last DMX command is held	
			Blackout	activates Blackout	
DimCurve	=	Dimmer Curve	Linear	The light intensity increases linearly with the DMX value.	
			Exp	Adjustment of the light intensity is finer in the lower DMX value range and coarser in the upper DMX value range.	
			Log	The light intensity can be adjusted coarsely in the lower DMX value range, and finely in the upper DMX value range.	
			S Curve	The adjustment of the light intensity is finer in the lower and upper DMX value ranges and coarser in the middle DMX value range.	
DimResp	=	Dimmer response	LED	The spotlight responds abruptly to changes in the DMX value.	
			Halogen	The spotlight behaves in a manner similar to that of a halogen lamp with gentle changes in brightness.	
Calibrat	=	Cross-mode calibration of the colour reproduction in mixed colours.	Red	Adjusting the intensity with values ranging from 000 to 255	
			Green	Adjusting the intensity with values ranging from 000 to 255	
			Blue	Adjusting the intensity with values ranging from 000 to 255	
			White	Adjusting the intensity with values ranging from 000 to 255	

DEVICE INFORMATION

Pressing MENU will take you to the selection menu for system settings. Using UP and DOWN, select the menu item "Sys Info" and confirm with ENTER. You will then be taken to the sub-menu to display the device information. Use the UP and DOWN panels again to select the desired sub-menu item and then press ENTER to retrieve the information (see table). Press MENU once more to return to the main display. The main display is automatically activated if no input is made within about 30 seconds.

Menu Sys Info	Sys Info Temp	Sys Info Op. Hours	Sys Info Firmware
------------------	------------------	-----------------------	----------------------

Sys Info				
Temp	=	Temperature display of the LED unit	Temp LED	xxC / xxF
			Temp C°/F°	°C (= display in degrees Celsius)
				°F (= display in degrees Fahrenheit)
Op.Hours	=	Operating time display	Hour Total	Displays the total operating time in hours
Firmware	=	Displays the device software version		Vx. xx

SETTING UP AND MOUNTING



Thanks to the integrated rubber feet, the spotlight can be placed in a suitable location on a flat surface.

Mounting on a truss is performed with the help of a suitable truss clamp (not included). Make sure that the connection to the mounting bracket is solid, and secure the device with a suitable safety rope to the safety eyelet provided. Important Notice: Overhead installation should only be carried out by trained personnel.

WINGED BARNDOOR AND FILTER FRAME MOUNTING / REMOVAL

To install or remove the winged barndoor and the filter frame, please press on the spring-loaded button of the locking mechanism and fold it upwards. Place the locking mechanism in the same way in the original position.

DMX TECHNOLOGY

DMX-512

DMX (Digital Multiplex) is the designation for a universal transmission protocol for communications between corresponding devices and controllers. A DMX controller sends DMX data to the connected DMX device(s). The DMX data is always transmitted as a serial data stream that is forwarded from one connected device to the next via the "DMX IN" and "DMX OUT" connectors (XLR plug-type connectors) that are found on every DMX-capable device, provided the maximum number of devices does not exceed 32 units. The last device in the chain needs to be equipped with a terminator (terminating resistor).



DMX CONNECTION

DMX is the common "language" via which a very wide range of types and models of equipment from various manufacturers can be connected with one another and controlled via a central controller, provided that all of the devices and the controller are DMX compatible. For optimum data transmission, it is necessary to keep the connecting cables between the individual devices as short as possible. The order in which the devices are integrated in the DMX network has no influence on the addresses. Thus the device with the DMX address 1 can be located at any position in the (serial) DMX chain: at the beginning, at the end or somewhere in the middle. If the DMX address 1 is assigned to a device, the controller "knows" that it should send all data allocated to address 1 to this device regardless of its position in the DMX network.

SERIAL CONNECTION OF MULTIPLE LIGHTS

1. Connect the male XLR connector (3-pin or 5-pin) of the DMX cable to the DMX output (female XLR socket) of the first DMX device (e.g. DMX-Controller).
2. Connect the female 3-pin XLR connector of the DMX cable connected to the first projector to the DMX input (male 3-pin socket) of the next DMX device. In the same way, connect the DMX output of this device to the DMX input of the next device and repeat until all devices have been connected. Please note that as a rule, DMX devices are connected in series and connections cannot be shared without active splitters. The maximum number of DMX devices in a DMX chain should not exceed 32 units.

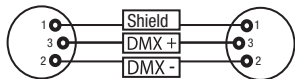
The Adam Hall 3 STAR, 4 STAR, and 5 STAR product ranges include an extensive selection of suitable cables.

DMX CABLES

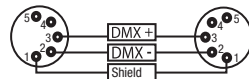
When fabricating your own cables, always observe the illustrations on this page. Never connect the shielding of the cable to the ground contact of the plug, and always make certain that the shielding does not come into contact with the housing of the XLR plug. If the shielding is connected to the ground, this can lead to short-circuiting and system malfunctions.

Pin Assignment

DMX cable with 3-pin XLR connectors:



DMX cable with 5-pin XLR connectors (pin 4 and 5 are not used):



DMX TERMINATORS (TERMINATING RESISTORS)

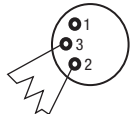
To prevent system errors, the last device in a DMX chain needs to be equipped with a terminating resistor (120 ohm, 1/4 Watt).

3-pin XLR connector with a terminating resistor: K3DMXT3

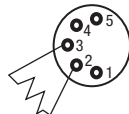
5-pin XLR connector with a terminating resistor: K3DMXT5

Pin Assignment

3-pin XLR connector:



5-pin XLR connector:



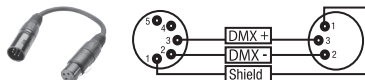
DMX ADAPTER

The combination of DMX devices with 3-pin connectors and DMX devices with 5-pin connectors in a DMX chain is possible with suitable adapters.

Pin Assignment

DMX Adapter 5-pin XLR male to 3-pin XLR female: K3DGF0020

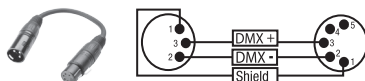
Pins 4 and 5 are not used.



Pin Assignment

DMX Adapter 3-pin XLR male to 5-pin XLR female: K3DHM0020

Pins 4 and 5 are not used.



TECHNICAL SPECIFICATIONS

Model Name:	CLTS40WW	CLTS60RGBW
Product Type:	LED spot	LED spot
Type:	Theatre Spot with Zoom Function	Theatre Spot with Zoom Function
Colour Spectrum:	warm white	RGBW
Number of LEDs:	1	1
LED Type:	40 W COB	60 W COB
Refresh Rate:	1200 Hz	3600 Hz
Beam Angle:	15° - 38°	10° - 41°
DMX Input:	3-pin XLR male	3-pin XLR male
DMX Output:	3-pin XLR female	3-pin XLR female
DMX Mode:	1-channel, 3-channel, 5-channel	3-channel, 4-channel, 5-channel, 7-channel, 13-channel
DMX Functions:	Dimmer, Dimmer Fine, Stroboscope, Dimmer Curve, Dimmer Response	Dimmer, Dimmer fine, Stroboscope, Dimmer Curve, RGBW, Colour Macros, Colour Jump, Colour Fade, Colour Temperature, Music Control, Dimmer Response, Fan Control
Control:	DMX512, RDM enabled	DMX512, RDM enabled
Standalone Functions:	Dimmer, Master/Slave	Dimmer, Dimmer fine, Stroboscope, RGBW, Colour Macros, Colour Jump, Colour Fade, Music Control, Auto Program
Controls:	Mode, Enter, Up, Down, Zoom	Mode, Enter, Up, Down, Zoom
Display Elements:	backlit 2-line LC display	backlit 2-line LC display
Operating Voltage:	100 - 240 V AC / 50 - 60 Hz	100 - 240 V AC / 50 - 60 Hz
Power Consumption:	40 W	65 W
Illuminance (@ 1 m):	18,000 lx	19,800 lx
Light Output:	1567 lm	907 lm
Power Connector:	permanently attached 1m power cord with CEE7/7 plug	permanently attached 1m power cord with CEE7/7 plug
Fuse:	T1AL / 250 V (5 x 20 mm)	T1AL / 250 V (5 x 20 mm)
Temperature (during operation):	5°C to 40°C	5°C to 40°C
Relative Humidity:	< 80% non-condensing	< 80% non-condensing
Housing Material:	metal	metal
Housing Colour:	black (CLTS40WW) / white (CLTS40WWWH)	black (CLTS60RGBW) / white (CLTS60RGBWWH)
Housing Cooling:	convection	fan
Dimensions (W x H x D, excluding bracket):	145 x 205 x 240 mm	145 x 205 x 240 mm
Weight:	3.8 kg	3.8 kg
Other Features:	filter frame, winged barndoor and mounting bracket included, manual zoom	filter frame, winged barndoor and mounting bracket included, manual zoom

MANUFACTURER'S DECLARATIONS

MANUFACTURER'S WARRANTY & LIMITATIONS OF LIABILITY

You can find our current warranty conditions and limitations of liability at: <http://www.adamhall.com/media/shop/downloads/documents/manufacturersdeclarations.pdf>. To request warranty service for a product, please contact Adam Hall GmbH, Daimler Straße 9, 61267 Neu Anspach / Email: Info@adamhall.com / +49 (0)6081 / 9419-0.



CORRECT DISPOSAL OF THIS PRODUCT

(valid in the European Union and other European countries with a differentiated waste collection system)

■ This symbol on the product, or on its documents indicates that the device may not be treated as household waste. This is to avoid environmental damage or personal injury due to uncontrolled waste disposal. Please dispose of this product separately from other waste and have it recycled to promote sustainable economic activity. Household users should contact either the retailer where they purchased this product, or their local government office, for details on where and how they can recycle this item in an environmentally friendly manner. Business users should contact their supplier and check the terms and conditions of the purchase contract. This product should not be mixed with other commercial waste for disposal.

DMX CONTROL CLTS40WW / DMX STEUERUNG CLTS40WW / PILOTAGE DMX CLTS40WW CONTROL DMX DEL CLTS40WW / STEROWANIE DMX CLTS40WW / CONTROLLO DMX CLT-S40WW

CLTS40WW		3CH Mode				
Ch.	Function	Values				Sub-Group
1	Dimmer	000	-	255	0% to 100%	Dimmer
2	Dimmer fine	000	-	255	0% to 100%	
3	Strobe	000	-	005	Strobe open	Strobe
		006	-	255	Strobe slow -> fast <1Hz - 20Hz	

CLTS40WW		1CH Mode				
Ch.	Function	Values				Sub-Group
1	Dimmer	000	-	255	0% to 100%	Dimmer

CLTS40WW		5CH Mode				
Ch.	Function	Values				Sub-Group
1	Dimmer	000	-	255	0% to 100%	Dimmer
2	Dimmer fine	000	-	255	0% to 100%	
3	Strobe	000	-	005	Strobe open	Strobe
		006	-	255	Strobe slow -> fast <1Hz - 20Hz	
4	Set dimmer curve	000	-	005	no function	Set dimmer curve
		006	-	063	Linear Dimmer Curve	
		064	-	127	Exponential Dimmer Curve	
		128	-	191	Logarithmic Dimmer Curve	
		192	-	255	S-Curve Dimmer Curve	
5	Device settings	000	-	005	no function	Device settings
		006	-	063	Dimmer Response LED (Hold 3s)	
		064	-	127	Dimmer Response Halogen (Hold 3s)	
		128	-	255	no function	

DMX CONTROL CLTS60RGBW / DMX STEUERUNG CLTS60RGBW / PILOTAGE DM CLTS60RGBW / CONTROL DMX DEL CLTS60RGBW / STEROWANIE DMX CLTS60RGBW CONTROLLO DMX CLTS60RGBW

CLTS60RGBW		3CH Mode				
Ch.	Function	Values				Sub-Group
1	Red	000	-	255	0% to 100%	Red
2	Green	000	-	255	0% to 100%	Green
3	Blue	000	-	255	0% to 100%	Blue

CLTS60RGBW		4CH Mode				
Ch.	Function	Values				Sub-Group
1	Red	000	-	255	0% to 100%	Red
2	Green	000	-	255	0% to 100%	Green
3	Blue	000	-	255	0% to 100%	Blue
4	White	000	-	255	0% to 100%	White

CLTS60RGBW		5CH Mode				
Ch.	Function	Values				Sub-Group
1	Dimmer	000	-	255	0% to 100%	Dimmer
2	Red	000	-	255	0% to 100%	Red
3	Green	000	-	255	0% to 100%	Green
4	Blue	000	-	255	0% to 100%	Blue
5	White	000	-	255	0% to 100%	White

CLTS60RGBW		7CH Mode				
Ch.	Function	Values				Sub-Group
1	Dimmer	000	-	255	0% to 100%	Dimmer
2	Dimmer fine	000	-	255	0% to 100%	
3	Strobe	000	-	005	Strobe open	Strobe
		006	-	255	Strobe slow -> fast <1Hz - 20Hz	
4	Red	000	-	255	0% to 100%	Red
5	Green	000	-	255	0% to 100%	Green
6	Blue	000	-	255	0% to 100%	Blue
7	White	000	-	255	0% to 100%	White

CLTS60RGBW		13CH Mode				
Ch.	Function	Values				Sub-Group
1	Dimmer	000	-	255	0% to 100%	Dimmer
2	Dimmer fine	000	-	255	0% to 100%	
3	Strobe	000	-	005	Strobe open	Strobe
		006	-	255	Strobe slow -> fast <1Hz - 20Hz	
4	Red	000	-	255	0% to 100%	Red
5	Green	000	-	255	0% to 100%	Green
6	Blue	000	-	255	0% to 100%	Blue
7	White	000	-	255	0% to 100%	White
8	Colour Macro (override RGB) & Colour Jumping & Colour Fading	000	-	005	Colour off	Colour Macro
		006	-	013	Red	
		014	-	021	Amber	
		022	-	029	Yellow warm	
		030	-	037	Yellow	
		038	-	045	Green	
		046	-	053	Turquoise	
		054	-	061	Cyan	
		062	-	069	Blue	
		070	-	077	Lavender	
		078	-	085	Mauve	
		086	-	093	Magenta	
		094	-	101	Pink	
		102	-	109	Warm White	
		110	-	117	White	
		118	-	125	Cold White	
		126	-	127	Colour Jumping Stop	
		128	-	191	Colour Jumping Speed slow -> fast / Colour 1 -> 12	
		192	-	255	Colour Fading Speed slow -> fast / Colour 1 -> 12	

9	Colour Temperature (affects RGB and Colour Macros)	000	-	005	Off	Colour Temperature Correction
		006	-	255	7200K - 3200K @ Full on affects colours too	
10	Auto Program Speed	000	-	255	Auto Program Speed	Auto Program
11	Sound (if on, override everything)	000	-	005	Sound Control OFF (Mic Sensitivity)	Sound
		006	-	255	Sound Control ON Low -> High (Mic Sensitivity)	
12	Set dimmer curve	000	-	005	No function	Set dimmer curve
		006	-	063	Linear Dimmer Curve	
		064	-	127	Exponential Dimmer Curve	
		128	-	191	Logarithmic Dimmer Curve	
		192	-	255	S-Curve Dimmer Curve	
13	Device settings	000	-	005	No function	Device settings
		006	-	063	Dimmer Response LED (Hold 3s)	
		064	-	127	Dimmer Response Halogen (Hold 3s)	
		128	-	191	Silent Fan on (Hold 3s)	
		192	-	255	Silent Fan off (Hold 5s)	