CARPETLIGHT®

INSTRUCTION MANUAL

CARPETLIGHT
CL21 CL42 CL44 CL84

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SUMMARY

GENERAL INSTRUCTIONS

The **CARPETLIGHT** CL Series product line is produced specifically for the use in professional studio and outdoor location shooting, and should only be operated by qualified personnel.

Read this Instruction Manual thoroughly before first use. The following text includes important information for the operation of the **CARPETLIGHT** lamps.

- Please observe the safety instructions for your own protection.
- Keep this manual in a safe place and pass on to any future user.
- Please recycle or dispose of the packaging material for this product in an environmentally responsible manner.
- Damaged lamps and ancillary equipment should be disposed of in a responsible and environmentally friendly way according to the laws and regulations that apply in the country of use.
- Use only original **CARPETLIGHT** ancillary equipment and spare parts.

PRODUCT SPECIFICATIONS

The lamp body is made from textile compounds. This allows for hanging, rolling and bending into any conceivable form.
The lamp bodies are extremly lightweíght, small technical aids can used to attach them almost anywhere.

CARE INSTRUCTIONS

Small stains on the lighting side of the lamp body can be removed using a damp cloth. For the black reverse side you can use a soft fabric detergent.

The textile equipment, i.e. soft box and skirt, can be hand washed at 86°F (30°C).

Keep the electrical contacts and plug-in connectors clean.

We recommend regular visual inspections.

IMPORTANT SAFETY INSTRUCTIONS

| Beware: Mains Voltage! Acute danger to life! | Beware: Hot Lamp! |

- Attention: The lamp body can reach high temperatures!

- When in use the lamp body should neither be rolled nor covered up, nor should it be pressed or tied down to any surface, as the heat generated during operation needs to dissipate from the whole surface of both rear and front side.
  We generally recommend the use of the supplied frame.

- Don't stick any nails, pins, staples or similar objects into the lamp body, please use the existing eyelets.

- Do not operate the lamp if you observe any visual damage.

- If any damage is identifiable the relevant parts must be replaced, alternatively, please contact **CARPETLIGHT** GmbH or one of our distributors/sales partners.

- Please ensure, when hanging this product, that the lamp body and ancillary equipment is properly secured using a safety cable.

- Due to the lamp body being one of the lightest of its kind, it allows for installation in ways not possible before; but please make sure of the stability and reliability of the attachment.

- Stands must be set up correctly and it is to be ensured that they are designed to carry the designated load.

- The lamp is equipped with four thermosensors located at the corners to protect the lamp from overheating and other possible damages. The temperature warning mode is activated once 176°F (80°C) is reached at any one of the four thermosensors.

- Please take notice of the warning sign on the control unit. Turning down the dimmer a few percent should reduce the heat noticeably.

- When the lamp becomes overheated it automatically reduces its output to 20%, until a harmless temperature is reached.

- It is advisable to wear suitable protective clothing when working with lamps to prevent injuries and burns.

- Please observe the weight of lamp bodies and ancillary equipment when carrying or lifting, and take into consideration preventive measures recommended by local trade Associations according to occupational safety law.

- When laying out the connecting cables please avoid tripping dangers for personnel or damages that can occur from vehicles by using suitable warning signs and/or coverings.

- The lamp body and its electrical safety system are to be inspected prior to any operation.

- The faultlessness of the power supply and the safety device connection to the lamp body is to be checked before every operation.

- Please ensure that the correct safety distance to sensitive and flammable objects is observed, the maximum heat is generated at the backside of the lamp!

- Note: the glare and flashes emitted from a lamp can impair vision, and can lead to accidents (e.g. on steps or in traffic etc.).

- Keep the lamp at a safe distance when lighting through objects like glass, windows and set features, because these objects can burst from overheating and the splinters could cause injury.

- Note the degree of protection (IP) of the lamp system relating to environmental influences such as dust, dampness and rain.

- It may be contingent to use an extra protection e.g. weather protected placement, protective cover or shelter, and please make sure that enough heat can escape from the heat generating lamp.

- The usage in corrosive environments e.g. salt water requires possible extra protective measures.

EXCLUSION OF WARRANTY

Every usage outside of the recommended applications, in particular in high humidity, dangerously volatile environments or heightened G forces will lead to forfeiture of the warranty.

The company **CARPETLIGHT** GmbH is not liable for any damages due to improper usage of our products.

LAMP OPERATION

Ancillary Assembly
The assembly and changing of the ancillary equipment is to be carried out from a stable position.

Erecting the Frame CL21 and CL42
Fold the four arms away from the centre mount and lock in final position.
The four velcro stripes and the center velcro are to be found on the front side of the frame crossing.
The frame for the **CL42** uses four additional ¼" bolts with wing nuts.

Assembly of the Lamp CL21 and CL42
We recommend using the supplied threaded pins when using the lamp frame. The velcro fasteners on the rear of the lamp should be attached to the velcro on the frame arms, covered over and pressed together.
Always begin the attachment of the lamp to the frame at the cable emergent corner. The lamp includes at each of its four corners an eyelet to attach the lamp or fasten it to the frame. Push the threaded pins through the oval eyelets of the **CL21** lamp and screw tightly into the ¼" set screw of the frame.
When erecting the **CL42**:
Once, all threaded pins are slightly screwed in, the ¼" receptacle tubes can be pushed to their outermost position and secured by their wing nuts, then tighten the threaded pins. This procedure ensures the maximum tension on the frame /lamp system. We recommend whilst tensioning loosening the velcro fasteners at the corners.
When assembling the softboxes make sure the connectors (quick straps, velcro) are attached to the the lamp before the ¼"receptacle tubes are pushed to their outermost position, also tighten the threaded bolts/wing nuts after that.

Assembly of the Corner Fixtures Lamp CL44 and CL84:
The four corner fixtures are for empty 4x4 aluminium frames, the sizing is 1,2 m x 1,2 m.
The best frames for assembly with the **CL44** and **CL 84** are ones without corner welds. The corner fixtures must be correctly attached to the frame corners. To do this, the hold down clamps need to be moved aside. We recommend undoing the wings nuts up to their highest position on the thread. Once the corners of the frame are in position, the hold down clamps can be adjusted using the wing nuts.

Assembly of the lamp onto the frame CL44 and CL84
The lamp uses four corner fixtures for attaching to an empty aluminium frame.
Attached to the corner fixtures are four thrust latches which firstly need to be loosened and moved aside.
The lamp is then attached using the eyelets, which are screwed directly onto the thrust latches, and there the affixing pins for the lamp and a softbox are assembled.
Alternately one can easily use the wing nuts attached to the thrust latches for affixing

to the eyelets. Subsequently all four thrust latches should be pushed outwards and adjusted using the wing nuts to bring tension to the lamp.

Mounting the Spigot
The lamps CL21 and CL42 have a centre mounted bayonet fastener for attaching a 16mm spigot. The spigot is placed within the fastener, turned slightly then tightened using the union nut. Previous versions have a spigot that is attached using a thread.

Assembly of the SnapGrid
The original **CARPETLIGHT** SnapGrid has been especially developed for the respective lamp sizes.
It can be attached using the velcro fasteners which surrounds the lamp body, or alter-nately directly to the softbox.
Additional rubber straps can be tightened over the four corners using the threaded pins.
The velcro fasteners provide enough support to use the lamp as a top light.
Use the protruding textile hem corner extensions on the SnapGrid to minimise any unwanted light emissions from the corners of the lamp.
Please check for possible fouling of the velcro fasteners to ensure a perfect bond.

Assembly of the Softboxes
Both of the **CARPETLIGHT** softboxes can be connected using the quick straps (push/pull operation) over the threaded pins, and using the velcro fasteners at the corners of the lamp body.
It is possible to combine the softbox and SnapGrid.
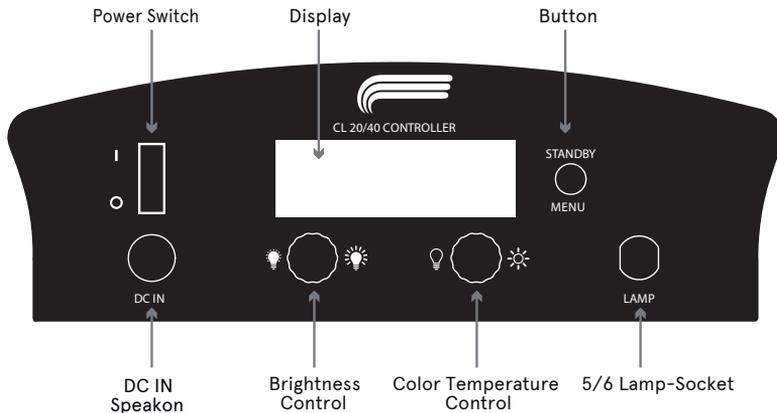

Assembly of the Skirt
When using the lamp as a top light, it is recommended for some applications to use the black skirt, to narrow down the light angle even further.
The skirt can be used separately or in combination with the softbox and/or the SnapGrid. Simply attach the velcro affixed to the skirt to the velcro attached to the lamp body or its ancillary equipment.

OPERATION OF THE CONTROL UNIT

Power Switch   Display   Button

CL 20/40 CONTROLLER

STANDBY

MENU

DC IN

DC IN
Speakon   Brightness
Control   Color Temperature
Control   5/6 Lamp-Socket

LAMP

The control unit must be connected to the lamp body using the supplied 6 pole control cable or respectively a 5 pole control cable. Do not twist or turn the connectors! The plugs and sockets for the 5 pole control cable are push /pull types to be disengaged by pulling back the centre shell of the plug. The principle of the 6 pole control cable is the same as with the 5 pole cable only that it has an extra interlock that hinders uncontrolled unplugging. When inserting the plug into the socket make sure the arrow mark on the plug is pointing upwards. Take note of the white marker.

The speakon-DC connector is a lockable slewing mechanism. Plug the connector into the socket by finding the correct slot and then with a little pressure turn to the right. To disconnect, retract the silver slider, then slightly rotate left, then you can unplug the cable.

There are different types of power supply

Mains Supply 90-240 Volt
Connect the speakon DC plug of the power supply to the speakon socket (DC IN) by inserting and twisting right. (To unplug pull the top lever back and twist left).
After that, connect the power supply to the mains outlet with the supplied AC cable.

V-Mount Operation
Connect the Speakon DC plug of the supplied V-mount adapter to the speakon socket (DC IN) by inserting and twisting right. (To unplug pull the top lever back and twist left.)
After that insert two batteries (with a minimal discharge current of nine Amps/each) to the V-mount adapter.
An alternative DC power supply can be used after approval by **CARPETLIGHT** GmbH.
Do not connect or disconnect the connectors of the power and control cable while voltage or current are present.
We decline any liability for damages caused as a result of non observance.

SETTINGS FOR THE CONTROL UNIT

The use of these settings is for version 3.12 of the firmware.
The settings could change in the future. If your firmware is a differnet version than 3.12, please contact **CARPETLIGHT** *GmbH.*

Switching On/Off and Standby-Mode

Once the lamp is successfully connected to the control unit and that is connected to a functioning power supply, the lamp is ready for use. Once the main switch on the control unit has been activated, the **CARPETLIGHT**-Logo will appear in the display. The lamp always starts in the On-mode and the illumination will be the same as the last set up which was input into the control unit. This includes it´s brightness and color temperature.

Brightness and Color Temperature

Once the control unit and lamp body have been successfully connected, the use of brightness and color temperature settings can be seen in the display.
For setting the brightness please use the brightness control.
For setting the color temperature please use the color temperature control.
The color temperature can be seen in the display and is measured in Kelvin (K), and can be controlled in 50 K increments. The wanted value is displayed in 100 K increments. The small square which shows when the control knob is continuously adjusted shows the 50 K increments.

Temperature Display and Overheating

The lamp is equipped with four thermo-sensors to prevent overheating.
The display shows the highest measured temperature at the sensors, and once the lamp`s temperature exceeds 176°F (80°C), a warning sign will appear.
A slow blinking light in the display will indicate that the lamp is overheating.
Should the lamp´s temperature continue rising by another 41°F (5°C) after the beginning of the warning period, the lamp will go into safety mode. The lamp will reduce its brightness to 20% autonomously. Once the temperature has fallen to 172.4°F (78°C), the lamp will automatically return to its previous brightness level.
ATTENTION: This might lead to alternating dimming actions (up/down) if the lamps thermal situation is not altered. For example, if the lamps airing/ventilation or cooling doesn't change.
If the warning recures, use an alternative brightness level or lamp position to secure a faultless operation. Turning down the dimmer a few percent should reduce the heat noticeably.

Selection using the Menu Function / Standby-Mode

Pressing down the stand-by button briefly, will put the lamp into stand-by mode and switch the lamp off. Pressing down on the button again will turn the light back on to its previous setup before the lamp was turned off. To switch the lamp off turn the main switch off.

By pressing down the standby/menu button for 3 seconds you are now in the options menu. By pressing down the standby/menu Button for another 3 seconds you are then in the lamp operation mode. Once in the options menu, using a short press of the button you can go through the menu functions. Use the color temperature control to change menu functions and its corresponding value.

Menu Functions

1. Daylight Boost / Fast 100%
Daylight Boost:
- Press the standby/menu button for 3 seconds (menu-mode).
- Rotate the brightness control 1 click to the right to activate the daylight boost .
- "Daylight Boost" will show up on the lower line of the display.
- Turning any control knob will bring back the lamp operation mode.

Fast 100 %:
The Lamp can, without using manual control, immediately be used at 100% brightness:
- Press the standby/menu button for 3 seconds (menu-mode).
- Rotate the color temperature control to the right for a 100% start.
- 100,0% will show up on the lower line of the display.
The lamp will switch back automatically into the lamp operation mode.

2. DMX-Channel Selection
Setting the DMX-channel Selection:
- Press the standby/menu button for 3 seconds (menu-mode).
- Press the standby/menu button briefly to go to the menu function "DMX".
- Use the color temperature control to select the required start address (1-511) .
- By pressing the standby/menu button again for 3 seconds you enter the wanted input and revert to the lamp operation mode.

3. DMX-Mode
Turning off the DMX-Mode with connected DMX-Cable:
The control unit will automatically turn to the (DMX-Mode: Normal) once a DMX-Signal is received.
By turning the DMX-Mode to "OFF" you can carry out manual alterations to the DMX-Operation.
- Press the standby/menu button for 3 seconds (menu-mode).
- Press the standby/menu button briefly to get to the menu function "DMX-Mode".
- Use the color temperature control to choose the required input. DMX is on "Normal"- DMX is off "OFF".
- By pressing the standby/menu button again for 3 seconds the input is selected and the lamp reverts to the lamp operation mode.
Upon restarting the control unit will revert to the "ON" position, as long as a DMX-Signal is present. Please note, when in DMX "Stand Alone "use, or when the lamp is the last in

the DMX chain, the use of a 120 Ω (Ohm) termination/load resistor could be necessary (not included with the lamp).

4. Display Backlight
Display Brightness:
- Press the standby/menu button for 3 seconds (menu-mode).
- Press the standby/menu button briefly select the menu function "Backlight".
- Use the color temperature control to choose the required setting 0-5.
- By pressing the standby/menu button again for 3 seconds the input is selected and the lamp reverts to the lamp operation mode.

5. Selection of Lamp Head version
The detection of the lamp head version is done automatically. This procedure guarantees an accurate match in the color temperature display. Alternatively the lamp version can be selected manually. You can find the lamp version on the printed logo on the lamp heads rear side. Higher lamp versions have a large color spectrum adjustability. The following lamp versions **CL42**, **CL44** and **CL84** come in A series (with the conventional binning) and B series (with the new one extended binning). The **CL21** lamp with the A-C series is operated with the conventional binning and the lamps with the D series operated with the new extended binning. When connecting the lamp the maximum color temperature is measured to see the correct color temperature in the display.
It is also possible to manually adjust this in the menu.
- Press the standby/menu button for 3 seconds (menu-mode).
- Press the standby/menu button briefly to select the menu function "Connected Lamp Series".
- Use the color temperature control to choose the required lamp series from A or B respectively A-C or D (for **CL21**).
- By pressing the standby/menu button again for 3 seconds the input is selected and the lamp reverts to the lamp operation mode.

The following menu points are not adjustable :
6. Software version of the control unit.
7. Serial number of the LED panel
8. Temperature display of the thermo-sensors & voltage

TECHNICAL SPECIFICATIONS

Color Temperature   2800–5600 K (A/A-C Series CL21), 2800–6000 K (B/D Series)

Dimmer Control   flicker free, steplessly variable

DMX   2 Channels (1. brightness, 2. color temperature)

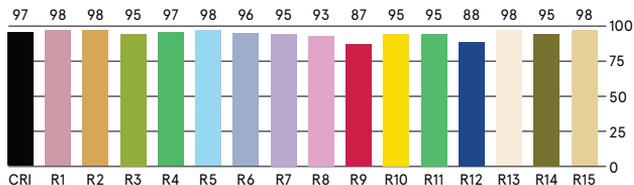|	Luminaire (mm)	Illumination Area (mm)	Weight (g)	Power (W)	Illuminance (lx)/ 1m (3 Feet)	Luminous Flux (lm)
CL21	645 x 400	560 x 320	350	120	2700	7900
CL42	1220 x 630	1120 x 550	850	194	3500	12200
CL44	1235 x 1215	1135 x 1135	1500	194	3800	12500
CL84	2340 x 1255	2220 x 1135	2200	275	3800	17000

Power Supply   V-mount (14,4 Volt, 9 Amps minimum discharge current)
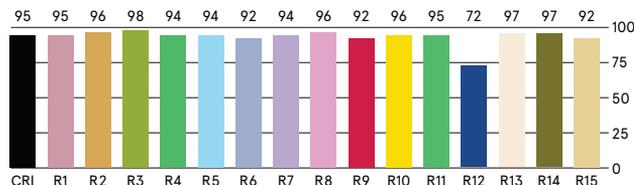mains adapter with 100–240 Volt

CRI   96
TLCI   96

Beam Angle   120°, with SnapGrid 40°

Cooling   passive, noiseless

Color Quality at 2800K

97 98 98 95 97 98 96 95 93 87 95 95 88 98 95 98

CRI R1 R2 R3 R4 R5 R6 R7 R8 R9 R10 R11 R12 R13 R14 R15

Color Quality at 5600K

95 95 96 98 94 94 92 94 96 92 96 95 72 97 97 92

CRI R1 R2 R3 R4 R5 R6 R7 R8 R9 R10 R11 R12 R13 R14 R15

Made in Germany   CE   RoHS 2002/95/EC   WEEE-Registrierungsnummer
DE59055631