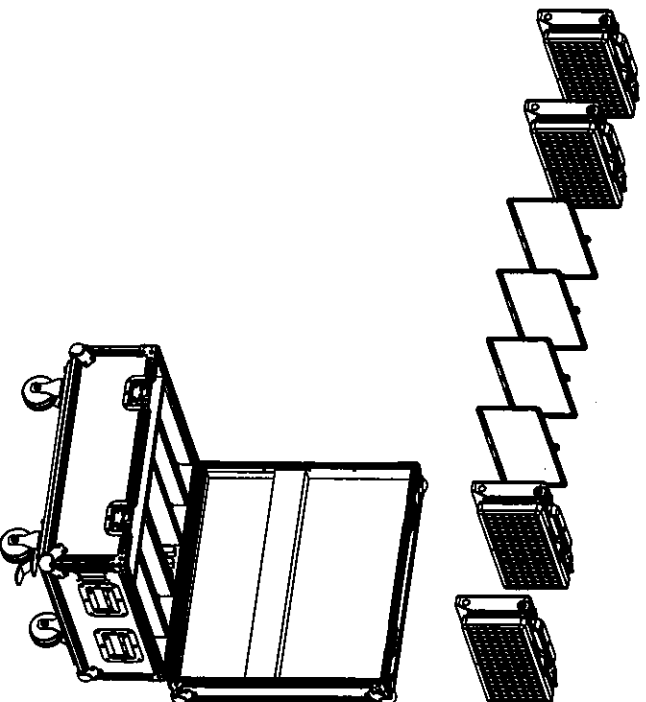




color dog

Compact, high-output, outdoor-rated,
cable-free, battery-powered LED washlight
: with onboard wireless DMX, infrared remote,
and manual control via OLED function menu
+ Four-unit road-worthy custom charging case.



www.e1k.com



WARNING! Before carrying out any operations with the unit, carefully read this instruction manual and keep it with care for future reference. It contains important information about the installation, usage and maintenance of the unit.



SAFETY

General instruction

- The products referred to in this manual conform to the European Community Directives and are therefore marked with CE.
- The unit is supplied with hazardous network voltage (230V~). Leave servicing to skilled personnel only. Never make any modifications on the unit not described in this instruction manual, otherwise you will risk an electric shock.
- Connection must be made to a power supply system fitted with efficient earthing (Class I appliance according to standard EN 60598-1). It is, moreover, recommended to protect the supply lines of the units from indirect contact and/or shorting to earth by using appropriately sized residual current devices.
- The connection to the main network of electric distribution must be carried out by a qualified electrical installer. Check that the main frequency and voltage correspond to those for which the unit is designed as given on the electrical data label.
- This unit is not for home use, only professional applications.
- Never use the fixture under the following conditions:
 - in places subject to vibrations or bumps;
 - in places with a temperature of over 40 °C.
- Make certain that no inflammable liquids, water or metal objects enter the fixture.
- Do not dismantle or modify the fixture.
- All work must always be carried out by qualified technical personnel. Contact the nearest sales point for an inspection or contact the manufacturer directly.
- If the unit is to be put out of operation definitively, take it to a local recycling plant for a disposal which is not harmful to the environment.



Warnings and installation precautions

- If this device will be operated in any way different to the one described in this manual, it may suffer damage and the guarantee becomes void. Furthermore, any other operation may lead to dangers like short circuit, burns, electric shock, etc.
- Before starting any maintenance work or cleaning the projector, cut off power from the main supply.
- Always additionally secure the projector with the safety rope. When carrying out any work, always comply scrupulously with all the regulations (particularly regarding safety) currently in force in the country in which the fixtures being used.
- Install the fixture in a well ventilated place.
- Keep any inflammable material at a safe distance from the fixture.
- Shields, lenses or ultraviolet screens shall be changed if they have become damaged to such an extent that their effectiveness is impaired.
- The lamp (LED) shall be changed if it has become damaged or thermally deformed.
- Never look directly at the light beam. Please note that fast changes in lighting, e. g. flashing light, may trigger epileptic seizures in photosensitive persons or persons with epilepsy.
- Do not touch the product's housing when operating because it may be very hot.

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INTRODUCTION

COLOR DOQ is an innovative outdoor-rated, cable-free, battery-powered LED washlight with onboard wireless DMX, infrared remote, and manual control via OLED function menu + four-unit road-worthy custom charging case.

FEATURES

- 24 x Red + 24 x Green + 24 x Blue + 24 x White high-power LEDs
- 9 hours continuous battery-powered operation at full output, 20 hours at single color
- Onboard wireless DMX
- 3-channel Hue-Saturation-Value and Hue-Saturation-Intensity modes
- Ultra-linear dimming technology for flawless color mixing
- Patented structural design delivers superior passive cooling
- High frequency LED modulation for flicker-free output
- Adjustable white balance
- IP65: Designed for both indoor and outdoor use
- Charging station in rugged touring case holds 4 units
- Password protected key lock
- Carrying handle doubles as mounting bracket
- W-DMX, Manual, Standalone (Auto Shows), Master/Slave, IR control

SPECIFICATIONS

Light Source:	96 x high-power LEDs (R / G / B / W)
Beam Angle:	24°
Field Angle:	40°
Output:	573 LUX @ 5 meters
Color Mixing:	RGBW
Strobe:	0-30 Hz
Dimming:	4 dimming curve modes
Control:	W-DMX, Manual, Standalone, Master/Slave, Infrared remote
DMX Channels:	4 / 6 / 10 / HSV / HSI
Display:	OLED function menu with 4 touch buttons
Mains:	100 - 240 VAC, 50/60 Hz
Drive Consumption:	56W
Power connections:	Proprietary
Battery:	Lithium Ion
Housing:	Diecast Aluminum
Finish:	Matte black
IP rating:	IP65
Cooling:	Passive
Max. Ambient:	50°C
Min. Ambient:	-20°C
Dimensions:	406 x 213 x 101 mm
Weight:	8.4 KG
Charging case dims:	68.5x59.5x47.5 mm
Charging case weight:	29 kg
Charging case power:	Consumption : 460W / Charging output: DC 24V
Power connections:	Seetronic PowerCon

WARNING

ALWAYS LEAVE THE COLOR DOQ CHARGING CASE OPEN DURING RECHARGING

- DO NOT CLOSE THE CASE OR COVER THE COLOR DOQ FIXTURES DURING RECHARGING

MAINTENANCE

MAINTENANCE AND CLEANING THE UNIT

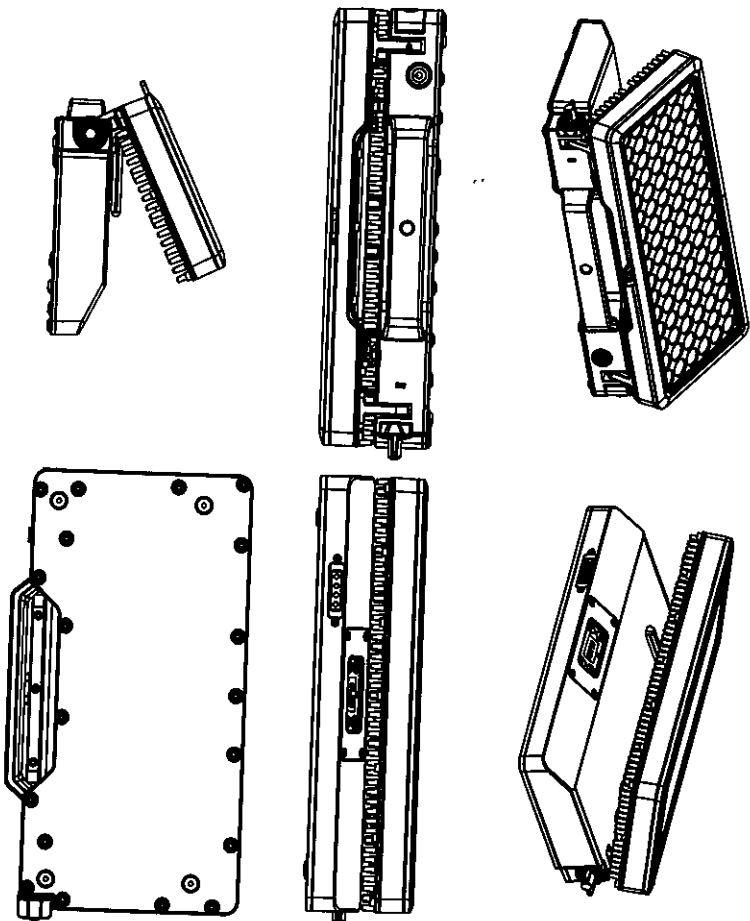
- Make sure the area below the installation place is free from unwanted persons during setup.
- Switch off the unit, unplug the main cable and wait until the unit has cooled down.
- All screws used for installing the device and any of its parts should be tightly fastened and should not be corroded.
- Housings, fixations and installation spots (ceiling, trusses, suspensions) should be totally free from any deformation.
- The main cables must be in impeccable condition and should be replaced immediately even when a small problem is detected.
- It is recommended to clean the front at regular intervals, from impurities caused by dust, smoke, or other particles to ensure that the light is radiated at maximum brightness. For cleaning, disconnect the main plug from the socket. Use a soft, clean cloth moistened with a mild detergent. Then carefully wipe the part dry. For cleaning other housing parts use only a soft, clean cloth. Never use a liquid, it might penetrate the unit and cause damage to it.

TROUBLESHOOTING

Problems	Possible causes	Checks and remedies
Fixture does not light up	<ul style="list-style-type: none"> • No mains supply • Dimmer fader set to 0 • All color faders set to 0 • Faulty LED • Faulty LED board 	<ul style="list-style-type: none"> • Check the power supply voltage • Increase the value of the dimmer channels • Increase the value of the color channels • Replace the LED board • Replace the LED board
General low light intensity	<ul style="list-style-type: none"> • Dirty lens assembly • Misaligned lens assembly 	<ul style="list-style-type: none"> • Clean the fixture regularly • Install lens assembly properly
Fixture does not power up	<ul style="list-style-type: none"> • No power • Loose or damaged power cord • Faulty internal power supply 	<ul style="list-style-type: none"> • Check for power on power outlet • Check power cord • Replace internal power supply
Fixture does not respond to DMX	<ul style="list-style-type: none"> • Wrong DMX addressing • Damaged DMX cables • Bouncing signals 	<ul style="list-style-type: none"> • Check control panel and unit addressing • Check DMX cables • Install terminator as suggested

Contact an authorized service center in case of technical problems or not reported in the table can not be resolved by the procedure given in the table.

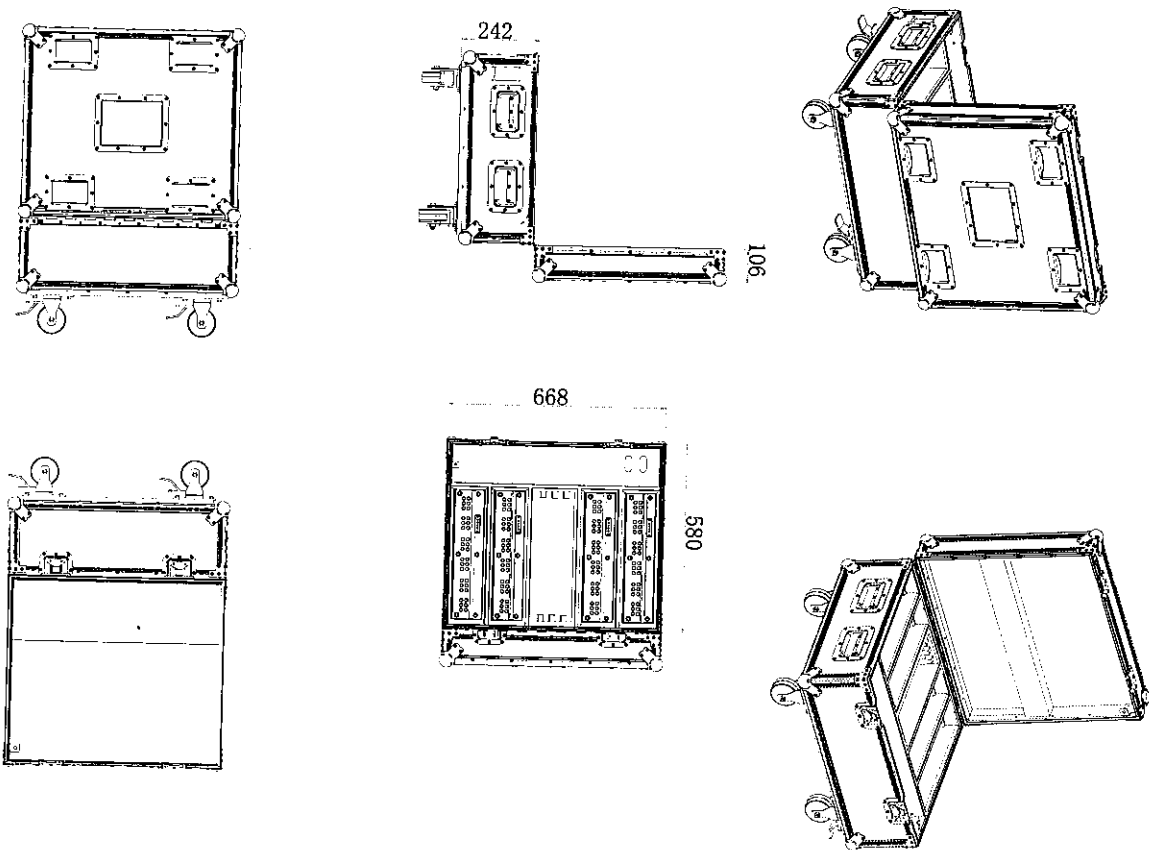
OPERATING ELEMENTS AND CONNECTIONS (APOLLO FIXTURE)



MENU	UP	DOWN	ENTER
Used to access the menu or to return a previous menu option	Navigates downwards through the menu list and increases the numeric value when in a function	Navigates upwards through the menu list and decreases the numeric value when in a function	Used to select and store the current menu or confirm the current function value or option within a menu

MENU BUTTON OVERVIEW

OPERATING ELEMENTS AND CONNECTIONS (CHARGING CASE)





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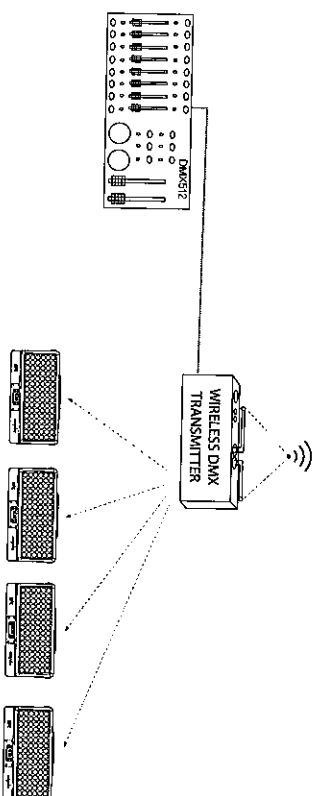
Abstract

Abstract

MENU FUNCTION DESCRIPTIONS

- 1. Auto Show**
Five auto programs to choose from. Auto program #5 includes playback of programs 1-4. Speed can be adjusted 0-100 (\$low to fast).
- 2. Static**
Select color presets under <static> menu option or use <manual color> option to mix custom colors.
- 3. Dimmer Mode**
Four selectable dimmer curves: <OFF>, <Dimmer1> (fast), <Dimmer2> (medium), <Dimmer3> (slow).
- 4. Back light**
Set delay time for menu display to go dark at either 10, 20 or 30 seconds or choose always ON.
- 5. Information**
Fixture software version and runtime clock.
- 6. DMX Address**
Set DMX starting address at a value between 001-512.
- 7. DMX Channel**
Select DMX mode: 3-channel HSV or HSL, or 4-, 6- or 10-channel operation
- 8. Master/Slave**
Assign fixture to operate as either Master or Slave unit in configurations with multiple Apollo fixtures
- 9. White Balance**
Adjust RGB levels to achieve desired white light
- 10. Wireless setting**
Turn wireless DMX receiver on/off or reset.
- 11. IR SETTING**
Turn IR sensor on/off to enable/disable infrared remote control.
- 12. KEY LOCK**
Password protection option. PASSWORD = UP DOWN UP DOWN ENTER
- 13. FACTORY RESET**
Restore factory settings.

WIRELESS DMX OPERATION



Example of possible DMX configurations and address settings:

MODE	ALLOCATION (1ST FIXTURE)	STARTING ADDRESS (1ST FIXTURE)	STARTING ADDRESS (2ND FIXTURE)	STARTING ADDRESS (3RD FIXTURE)	STARTING ADDRESS (4TH FIXTURE)
4CH	001-004	001	005	009	013
6CH	001-006	001	007	013	019
10CH	001-010	001	011	021	031

Follow above method for subsequent fixtures, calculating starting addresses as indicated.

WIRELESS DMX STATUS DISPLAY CODE DESCRIPTIONS

- Wireless switched off
- Connected with Transmitter
- Seconds: Authorization with transmitter Continuous: No previous connected transmitter found
- No wireless connection Free to connect with any transmitter
- Connection lost

DMX CONTROL

4-CHANNEL MODE

CHANNEL	FUNCTION	VALUES	PERCENT
1	RED	000-255	0-100%
2	GREEN	000-255	0-100%
3	BLUE	000-255	0-100%
4	WHITE	000-255	0-100%

6-CHANNEL MODE

CHANNEL	FUNCTION	VALUES	PERCENT
1	DIMMER	000-255	0-100%
2	RED	000-255	0-100%
3	GREEN	000-255	0-100%
4	BLUE	000-255	0-100%
5	WHITE	000-255	0-100%
6	STROBE	000-010 011-255	NO FUNCTION SLOW TO FAST

3-CHANNEL HSV MODE

HSV	FUNCTION	VALUES	DESCRIPTION
1	H	000-255	Hue
2	S	000-255	Saturation
3	V	000-255	Value (Brightness)

3-CHANNEL HSI MODE

HSI	FUNCTION	VALUES	DESCRIPTION
1	H	000-255	Hue
2	S	000-255	Saturation
3	I	000-255	Intensity

DMX CONTROL : 10-CHANNEL MODE

CHANNEL	FUNCTION	VALUE	PERCENT/SETTING
1	DIMMER	000-255	0-100%
2	RED	000-255	0-100%
3	GREEN	000-255	0-100%
4	BLUE	000-255	0-100%
5	WHITE	000-255	0-100%
6	STROBE	000-010 011-255	NO FUNCTION SLOW TO FAST
7	COLOR PRESSETS + WHITE BALANCE	000-010	NO FUNCTION
		011-030	R 100% G 0-100% B 0
		031-050	R 100%-0 G 100% B 0
		051-070	R 0 G 100% B 0-100%
		071-090	R 0 G 100%-0 B 100%
		091-110	R 0-100% G 0 B 100%
		111-130	R 100% G 0 B 100%-0
		131-150	R 100% G 0-100% B 0-100%
		151-170	R 100%-0 G 100%-0 B 100%
		171-200	R 100% G 100% B 100% W 100%
		201-205	WHITE BALANCE PRESET 1
		206-210	WHITE BALANCE PRESET 2
		211-215	WHITE BALANCE PRESET 3
		216-220	WHITE BALANCE PRESET 4
		221-225	WHITE BALANCE PRESET 5
		226-230	WHITE BALANCE PRESET 6
8	AUTO PROGRAMS	231-235	WHITE BALANCE PRESET 7
		236-240	WHITE BALANCE PRESET 8
		241-245	WHITE BALANCE PRESET 9
		246-250	WHITE BALANCE PRESET 10
		251-255	WHITE BALANCE PRESET 11
		000-051	NO FUNCTION
9	SPEED	052-101	Auto Program 1
		102-152	Auto Program 2
		153-203	Auto Program 3
		204-254	Auto Program 4
		255	Auto Program 5 (Auto Programs 1-4)
10	DIMMER CURVES	000-255	Auto speed slow to fast
		000-051	Preset dimmer speed from display menu
		052-101	Dimmer curve OFF
		102-152	Dimmer curve 1 (fast)
		153-203	Dimmer curve 2 (medium)
		204-255	Dimmer curve 3 (slow)

WIRELESS DMX OPERATION:

COLOR DOQ can operate in W-DMX mode up to 300m from the W-DMX transmitter. The W-DMX receiver in the COLOR DOQ must be paired with a W-DMX transmitter for wireless operation.

INITIAL SETUP

1. Turn on the W-DMX transmitter
2. Connect the W-DMX transmitter to a DMX controller
3. Position the COLOR DOQ fixture within 300m of the W-DMX transmitter
4. Turn on the COLOR DOQ fixture

CONFIGURATION

1. On the COLOR DOQ control panel, go to DMX ADDRESS
2. Select the starting address
3. On the COLOR DOQ control panel, go to WIRELESS SETTING
4. Set <Receive> to ON (the COLOR DOQ signal indicator will display a ? above the bars)
5. Press the Reset button on the W-DMX transmitter (the COLOR DOQ signal indicator will change to a 4 symbol above the bars while connection is establish)

PAIRING

Once successfully paired, the COLOR DOQ signal indicator will indicate the strength of the signal. At this point, the COLOR DOQ is ready to be operated wirelessly by DMX. If the COLOR DOQ fixture is subsequently used with a different W-DMX transmitter, follow steps below.

1. On the COLOR DOQ control panel, go to WIRELESS SETTING
2. Select <Reset> (the COLOR DOQ signal indicator will display a ? above the bars)
3. Press the Reset button on the W-DMX transmitter
4. The COLOR DOQ signal indicator will display the strength of the signal once pairing has been successful

INFRARED IR6 REMOTE CONTROL**INFRARED (IR6) REMOTE CONTROL OPERATION**

The IR6 infrared controller enables remote control of the COLOR DOQ.

To pair the IR6 to the COLOR DOQ, follow these steps:

1. Press MENU button until **IR Setup** is displayed
2. Press ENTER
3. Press UP or DOWN to turn infrared operation ON or OFF
4. Press ENTER

IR6 BUTTON FUNCTIONS

Buttons not listed below are not used with COLOR DOQ

AUTO**FADE****SPEED****+ / -****MANUAL
0 - 9**

- : Run auto programs
- : Fade auto programs
- : Enable speed adjustment of auto programs
- : Increase / decrease speed of auto programs

- : Enable manual selection of colors
- : Press numbers between 0 - 9 to choose colors
- : Corresponding to white (full output) / red / orange / yellow / green / purple / blue / magenta / pink / amber

- R G B W**
- + / -**
- : Press MANUAL, then Press R, G, B, or W buttons
- : Increase / decrease output of each color using +/- buttons

- %**
- + / -**
- : Adjusts total output level
- : Increase / decrease output level

STROBE**+ / -****STROBE**

- : Enable adjustment of strobe rate
- : Increase / decrease strobe rate
- : Press again to turn off strobe

**BLACKOUT
BLACKOUT**

- : Turn off all output
- : Press again to exit blackout mode

Note:

- : If IR6 remote is not responding, press BLACKOUT to confirm that blackout mode was not mistakenly activated.

