USER MANUAL
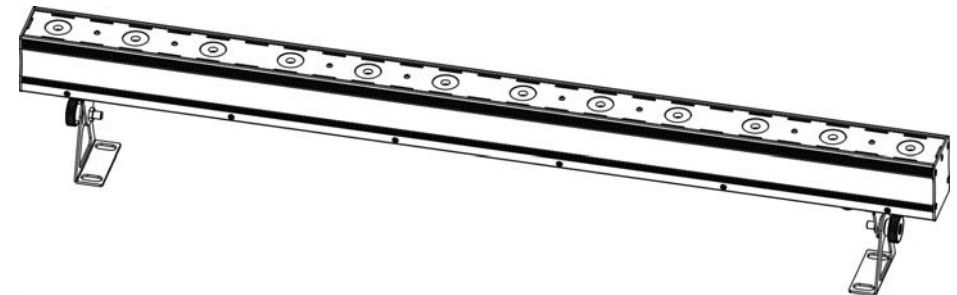
MULTIWALL-12A-V3
High-Power RGBY LED Lighting Fixture

For firmware 50-010-0658-00205 RevF

ENGLISH Page 2-24

〰️**MULTIFORM**

MULTIFORM is a brand of
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Concept, Design & Distribution by
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Updated versions of this document may be available at
WWW.MULTIFORM-LIGHTING.COM

■ **Introduction**

Dear customer,

congratulations on the purchase of a Multiform-branded item and the trust having been put in us with this decision. Multiform is one of the leading global manufacturers of professional lighting equipment and has decades of experience in design, production and quality assurance.

To meet your requirements, this unit has been designed and built to the highest standards, so that we can assure you that you have made a good and satisfying investment. To take full advantage of all possibilities and for your own safety and the safety of your environment, please read these operating instructions carefully before you start using the unit.

■ **Description**

The MultiWall-12A-V3 is a powerful yet compact RGBA color-mixing light bar for indoor applications, which range from architectural purposes to stage lighting. With its compact design, high-efficiency drive electronics and advanced cooling system, this fixture has been designed for both flexibility and reliability.

SAFETY INFORMATION

⚠ **Read the safety precautions in this chapter before installing, powering up, operating or servicing this device. Failure to do so may void the product warranty, and releases the manufacturer from all product liability.**

■ **Symbols used in this manual**

The following symbols are used to identify important safety information on the product and in this manual:

⚠ **WARNING!** Read manual before installation, operation or servicing.

⚠ **WARNING!** Safety hazard. Risk of injury or death.

⚡ **WARNING!** Hazardous voltage. Risk of severe or fatal electric shock.

UK Declaration of Conformity

The manufacturer
Adelto Industries, Unit 4 Britannia Business Park, Comet Way, Southend-on-Sea, Essex, SS2 6GE, United Kingdom

Declares at his sole responsibility that the equipment

Multiform MultiWall-12A-V3

is in conformity with the following applicable standards:

UK SI 2016 No. 1101 The Electrical Equipment (Safety) Regulations 2016:
BS EN IEC 60598-2-17:2018
BS EN IEC 62493:2015

UK SI 2016 No. 1091 Electromagnetic Compatibility Regulations 2016:
BS EN IEC 55015:2020
BS EN IEC 55032:2020
BS EN IEC 61000-3-2:2021
BS EN IEC 61000-3-3:2021
BS EN IEC 61547:2009

UK SI 2012 No. 3032 Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment Regulations 2012 (RoHS2)
BS EN IEC 63000:2018

And is marked as follows:

UK CA

Southend-on-Sea, 19th March 2021

Authorized Signature

EC Declaration of Conformity

The manufacturer
Adelto Industries, Unit 4 Britannia Business Park, Comet Way, Southend-on-Sea, Essex, SS2 6GE, United Kingdom

Declares at his sole responsibility that the equipment

Multiform MultiWall-12A-V3

is in conformity with the following directives/standards/regulations:

LVD Directive 2014/35/EU
EN 60598-2-17:2018
EN 62493:2015

EMC Directive 2014/30/EU
EN 55015:2020
EN 55032:2020
EN 61000-3-2:2021
EN 61000-3-3:2021
EN 61547:2009

Health and safety Directive 2006/25/EU
EN 62471:2008

ROHS2 Directive 2011/65/EU & 2015/863/EU
EN 63000:2018

And is marked as follows:

$$CE$$

Southend-on-Sea, 19th March 2021

Authorized Signature

WARNING! Shock hazard. Equipment must be properly grounded.

WARNING! Hot surface. Risk of skin burn or skin irritation.

WARNING! Fire hazard.

WARNING! Laser radiation. Risk of surface damage.

WARNING! LED light emission. Risk of eye injury.

■ **Security advice before use**

General advice:
1. Read this manual completely before using the product.
2. Keep this manual in your records for future reference.
3. Follow all instruction printed in this manual.
4. Follow all printed security advice on the product itself.
5. Take care of enough distance between this product and sources of hum and noise like electric motors and transformers.
6. Carry this product with greatest care. Punches, big forces and heavy vibration may damage this product mechanically.

Protection from eye injury
1. Warning: Depending on the configuration of the device, this device may reach or exceed the limits of EN62471, risk group 2, and may hence reach to risk group 3.
2. To avoid eye injury, do not look into the beam from a distance of less than 8.5 m (27 ft. 11 ins) from the front surface of the fixture without protective eyewear such as shade-5 welding goggles. At larger distances, light output is harmless to the naked eye provided that the eye's natural aversion response is not affected.
3. Do not view the beam directly with optical instruments such as magnifiers, telescopes, binoculars or similar optical instruments that may concentrate the light output.
4. Ensure that during setup and DMX programming, no persons are inside a 8.50m (27 ft. 11 ins) vicinity of the device's front surface, to avoid that they may accidently be exposed to the light beam.

Protection from electric shock:
1. Only connect this unit to a mains socket outlet with protective earth connection, ground-fault (earth-fault) and overload protection.
2. Where the mains plug or an appliance coupler is used as a dis-connect device, such device shall remain readily operable.
3. To pull the AC Cord out of the wall outlet or the unit's AC socket, never pull the cable itself, but only the AC plug.
4. Disconnect the unit from AC supply before any kind of cleaning on the product. Use smooth and dry cloth only for cleaning.
5. Do not expose this unit to any dripping or splashing liquids, and do not place objects filled with liquids, such as vases, on the unit.
6. Do not operate this unit near to open water or in high humidity.
7. Choose the position of the AC cord according to the lowest risk of damage by foot steps or by squeezing it.
8. Do not open the unit for service, there are no user-serviceable parts inside. Warranty will be void in any case of unauthorized service by the user or other not authorized persons.

Protection from fire:
1. Take care of not placing the unit near sources of heat (e.g. powerful amplifiers, fog machines).
2. Allow at least about 0.15m (6 ins.) between this unit and other devices or a wall to allow for proper cooling.
3. Take always care of sufficient air convection in the unit's environment to avoid overheating. Make sure air convection slots are not blocked. Do not operate this unit in environmental temperatures exceeding 40 degrees Celsius.
4. Be sure this fixture is kept at least 0.75m (30ins.) away from any flammable materials (decoration etc.).
5. Do not stick filters, masks or other materials directly on the LEDs or the LED cover screen.
6. Check the total maximum power of your AC wall outlet if you connect several units to one wall outlet and avoid any overloading.
7. If the device itself has an AC outlet for providing power to other units, make sure to not exceed the specified maximum load.

Protection from injury and damage:
1. Never use any accessories or modifications not authorized by the manufacturer of this unit.
2. Choose a location for operation where the unit is protected from vibration and where a fixed mounting position is provided. In case of overhead-mounting, follow applicable rigging requirements.
3. Before plugging the AC cord in the wall outlet, check whether the AC plug, the mains voltage and frequency are the same as this product is specified for. If not, contact you dealer immediately.

DMX signal drop: The device will retain the status that it was in before the DMX signal got lost, but potential tact settings will be automatically cleared.

■ **Maintenance**

This unit does not need regular maintenance. The internal circuit is protected by a 250V/2A slow-blow fuse. If this fuse fails, this usually indicates an internal fault requiring servicing by a qualified engineer.

■ **Technical data MULTIWALL-12A-V3**

LED configuration…..……………………………………...........…12×4W RGBY 4-in-1
Optics……………………………………………………………Secondary, 15 degrees
DMX Control & protocol………………………..……..3-28 Channels DMX 512 (1990)
IP Rating……..…………………………………………………………..……20 (indoor)
Mains Input…..……………………………………………….AC100-250V~ 50/60Hz
Power supply type, max. consumption………………………………….switch mode, 47 W
Dimensions (with straight bracket) LxWxH……………... 1004 x 61 (80) x 70 (169.5) mm
Weight…………………………………………………………………..................3.6 kg

This product meets both the EMC Directive 2014/30/EU and the Low Voltage Directive 2014/35/EU.
Ask your dealer or visit www.multiform-lighting.com for more information.

4. The surface of the device may get hot during operation, and heat sink areas may reach to or exceed the limits of EN60950. Do not touch heat sink areas of the device during operation, and allow 20 minutes of cool-down time after powering off before touching.
5. If fluids have spilled into the unit or small parts have intruded the unit, immediately switch off the unit and hand it over to the authorized service for a security check.
6. Disconnect the unit from AC supply by pulling the AC plug out of the wall outlet or the unit's AC socket during a thunder-storm in order to avoid any damage on the unit due to AC voltage peaks.
7. In cause of not correct function of this unit or damaged AC cord or other damaged parts, pull immediately the AC plug out of the wall outlet and hand the unit over to the authorized service for a security check.
8. To meet all aspects of functionality and security during mainte-nance work to be preformed on this unit, all parts should be replaced by genuine spare parts. Consequently, take care of your dealer or maintenance company to be authorized by the manufacturer.

■ **Health advice**

This unit produces and absorbs electromagnetic radiation. The strength of radiation and the sensitivity for disturbing interference matches the CE and FCC requirements. A corresponding sign is printed on the backside of the unit. Any change or modification may affect the behavior of the unit concerning electromagnetic radiation, with the CE requirements eventually not to be met any more. The manufacturer takes no responsibility in this case.

■ **Functional advice**

This unit is immune to the presence of electromagnetic disturbances – both conducted and radiated - up to a certain level. Under peak conditions, the unit is classified to show a "class C" performance criteria and may encounter temporary degradation or loss of function which may need manual help to recover. In such case, disconnect the AC power from the unit and reconnect it again to recover.

■ **Environmental advice**

 This unit is built to conform to the ROHS standards and the WEEE directive 2002/96/EC of the European Parliament and of the Council of the European Union. Under these regulations, the product shall not be discarded into regular garbage at the end of its life, but shall be returned to authorized recycling stations.

■ **LED Lifetime advice**

LED lifetime is determined by the gradually declining brightness of a LED over time, with a point of 50% brightness reduction marking the defined end of its lifetime. The driving factor of this effect is the heat that the chip inside the LED is exposed to. While a chip may under ideal circumstances reach to more than 100000 hours of lifetime, the real-world lifetime may only be 30000 to 50000 hours or less if the LED is exposed to excessive heat, which can be caused by continuously running all LEDs inside this device at full power and operating the unit in high environmental temperatures. If improving the lifespan expectancy is a priority, take care of providing for lower operational temperatures. This may include forced external cooling and/or the reduction of overall projection intensity.

■ **Unpacking**

Please check that the box contains the following items, and contact your dealer immediately for replacement if any part is missing:

Main parts:　　　　　　　1 pc. MultiWall-12A-V3
　　　　　　　　　　　　　1 pc. Power cord
　　　　　　　　　　　　　1 pc. Operation manual
　　　　　　　　　　　　　1 pc. M6 safety lug

■ **Getting started: choosing a location**

Risk of fire: The MultiWall-12A-V3 is designed to work in dry indoor environments at environmental temperatures up to 35 degrees Celsius. For proper operation, the unit must be operated with its heatsink side orientated vertically, and unobstructed air convection to the heatsink.

Note:
- Do not operate the unit in environments with more than 35 degrees environmental temperature or more than 75% relative humidity.
- Do not operate the unit in any position inclined or reclined more than 45 degrees from being upright.
- Do not operate the unit in any closed environment smaller than 10cbm, unless forced air convection is provided.

SEG2-Red	0-255	0~100%	8
SEG2-Green	0-255	0~100%	9
SEG2-Blue	0-255	0~100%	10
SEG2-Amber	0-255	0~100%	11
	0-255	Blank (unused)	12
	0-255	Blank (unused)	13
	0-255	Blank (unused)	14
SEG3-Red	0-255	0~100%	15
SEG3-Green	0-255	0~100%	16
SEG3-Blue	0-255	0~100%	17
SEG3-Amber	0-255	0~100%	18
	0-255	Blank (unused)	19
	0-255	Blank (unused)	20
	0-255	Blank (unused)	21
SEG4-Red	0-255	0~100%	22
SEG4-Green	0-255	0~100%	23
SEG4-Blue	0-255	0~100%	24
SEG4-Amber	0-255	0~100%	25
	0-255	Blank (unused)	26
	0-255	Blank (unused)	27
	0-255	Blank (unused)	28

NOTE : The **"28C"** identity is specifically designed for Multiform controllers which work on 7-channel DMX blocks.

"U" Utility (Display) Mode

Press the MENU button (2) until the display shows "U-", indicating operation in "U" (UTILITY) mode. The display will show the current utility setting in the residual 2 display digits, with choices as listed below. Choose any other identity/personality setting by simply using the UP/DOWN buttons (3/4). During this process, the display will flash. Press the ENTER button (5) to invoke the change, which is indicated by the display stop flashing. If ENTER is not pressed in between 3 seconds, the last two digits revert to the prior setting and the display stops flashing.

Available selections
d0 (display off after 30 sec)
d1 (display always on)

■ **Operating conditions**

Switch on: The unit always returns to the last mode before it was switched off; in DMX modes however DMX values are cleared if power is switched off.

			17
SEG4-Green	0-255	0~100%	17
SEG4-Blue	0-255	0~100%	18
SEG4-Amber	0-255	0~100%	19
SEG4-Dimmer/Strobe	0-127 128-227 228-255	Master level Tact (128=slow / 227=max. speed, 23Hz) Master level full on, Tact off	20

"24c" identity	Value	Percent/Setting	Channel
SEG1-Red	0-255	0~100%	1
SEG1-Green	0-255	0~100%	2
SEG1-Blue	0-255	0~100%	3
SEG1-Amber	0-255	0~100%	4
SEG1-Dimmer	0-255	0~100%	5
SEG1-Strobe	0-255	0~100%	6
SEG2-Red	0-255	0~100%	7
SEG2-Green	0-255	0~100%	8
SEG2-Blue	0-255	0~100%	9
SEG2-Amber	0-255	0~100%	10
SEG2-Dimmer	0-255	0~100%	11
SEG2-Strobe	0-255	0~100%	12
SEG3-Red	0-255	0~100%	13
SEG3-Green	0-255	0~100%	14
SEG3-Blue	0-255	0~100%	15
SEG3-Amber	0-255	0~100%	16
SEG3-Dimmer	0-255	0~100%	17
SEG3-Strobe	0-255	0~100%	18
SEG4-Red	0-255	0~100%	19
SEG4-Green	0-255	0~100%	20
SEG4-Blue	0-255	0~100%	21
SEG4-Amber	0-255	0~100%	22
SEG4-Dimmer	0-255	0~100%	23
SEG4-Strobe	0-255	0~100%	24

"28c" identity	Value	Percent/Setting	Channel
SEG1-Red	0-255	0~100%	1
SEG1-Green	0-255	0~100%	2
SEG1-Blue	0-255	0~100%	3
SEG1-Amber	0-255	0~100%	4
	0-255	Blank (unused)	5
	0-255	Blank (unused)	6
	0-255	Blank (unused)	7

■ Getting started: secure mounting

The MultiWall-12A-V3 can be positioned for operation in various ways:
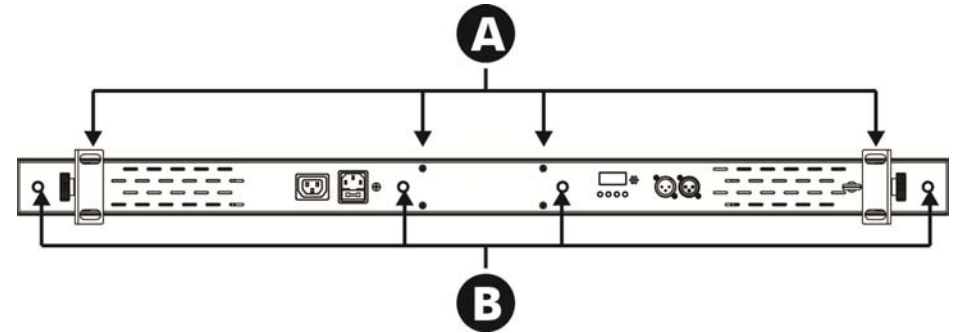
Floor standing operation

- Mount the brackets in one of the locations indicated with A.
- Place the unit in a secure position where it can neither be touched by anyone or could possibly become an objective for anyone to stumble.
- Make sure to comply with cooling requirements of the used power supply if any.

Hanging/Rigging, ceiling-mounted operation

Risk of injury: Overhead mounting requires extensive experience, like calculating working load limits, knowledge installation materials, and periodic safety inspection of all installation material and the unit. If you lack such qualifications, do not attempt the installation yourself. Improper installation can result in body injury. Be sure to complete all rigging and installation procedures before applying power to the unit.

- Remove all brackets from positions A.
- Use at least two truss couplers directly mounted to the M10 points indicated B.
- The unit should be installed out of reach of people and outside areas where persons may walk by or be seated.
- Make sure that the installation area can hold a minimum point load of 10 times the device's weight.
- In fixed installations, fix the unit with self-locking screws/nuts to the mounting point.
- Where required, secure the installation with an appropriate safety cable. Always use a certified safety cable according to DIN56927 that can hold 12 times the weight of the device when installing the unit. This secondary safety attachment should be installed in a way that no part of the installation can drop more than 20cm if the main attachment fails.

- Never stand directly below the device when mounting, removing, or servicing the fixture. Make sure the area below the installation place is free from unwanted persons during rigging, de-rigging and servicing.
- The operator has to make sure that the safety-relating and machine-technical installations are approved by an expert before using them for the first time. The installations should be re-inspected every year.
- Make sure to comply with applicable cooling requirements if any.

■ **Getting started: making AC supply connections**

Risk of fire / Safety risk

The MultiWall-12A-V3 requires an AC power source with sufficient power carriage and correct grounding to ensure safe operation. The AC power source must be equipped with a circuit breaker and earth leakage detector. Make sure to only use compliant AC supply lines.

The MultiWall-12A-V3 has an AC outlet that is designed to carry loads of no more than 8A. Make sure that all connected devices in a chain fed by the first device do not exceed a maximum of 8A current consumption.

■ **Getting started: making DMX control connections**

Connect the MultiWallt-12A-V3 to a suitable DMX controller where needed, and interconnect several units by means of their DMX In/Outputs as required. The last unit shall be equipped with a proper 120 Ohm termination resistor equipped DMX-plug as shown in below drawing. Please make sure that all used DMX cables comply to below standard:
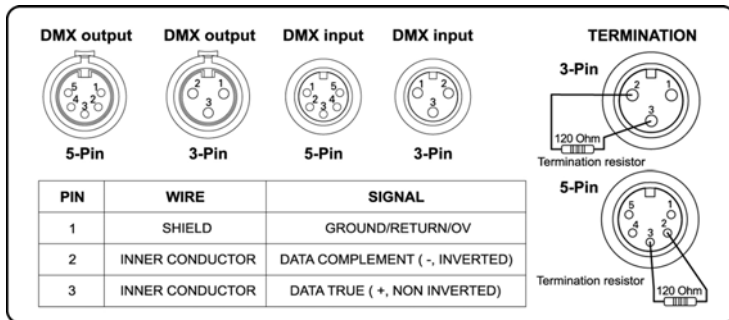
"16c" identity	Value	Percent/Setting	Channel
SEG1-Red	0-255	0~100%	1
SEG1-Green	0-255	0~100%	2
SEG1-Blue	0-255	0~100%	3
SEG1-Amber	0-255	0~100%	4
SEG2-Red	0-255	0~100%	5
SEG2-Green	0-255	0~100%	6
SEG2-Blue	0-255	0~100%	7
SEG2-Amber	0-255	0~100%	8
SEG3-Red	0-255	0~100%	9
SEG3-Green	0-255	0~100%	10
SEG3-Blue	0-255	0~100%	11
SEG3-Amber	0-255	0~100%	12
SEG4-Red	0-255	0~100%	13
SEG4-Green	0-255	0~100%	14
SEG4-Blue	0-255	0~100%	15
SEG4-Amber	0-255	0~100%	16

"20c" identity	Value	Percent/Setting	Channel
SEG1-Red	0-255	0~100%	1
SEG1-Green	0-255	0~100%	2
SEG1-Blue	0-255	0~100%	3
SEG1-Amber	0-255	0~100%	4
SEG1-Dimmer/Strobe	0-127 128-227 228-255	Master level Tact (128=slow / 227=max. speed, 23Hz) Master level full on, Tact off	5
SEG2-Red	0-255	0~100%	6
SEG2-Green	0-255	0~100%	7
SEG2-Blue	0-255	0~100%	8
SEG2-Amber	0-255	0~100%	9
SEG2-Dimmer/Strobe	0-127 128-227 228-255	Master level Tact (128=slow / 227=max. speed, 23Hz) Master level full on, Tact off	10
SEG3-Red	0-255	0~100%	11
SEG3-Green	0-255	0~100%	12
SEG3-Blue	0-255	0~100%	13
SEG3-Amber	0-255	0~100%	14
SEG3-Dimmer/Strobe	0-127 128-227 228-255	Master level Tact (128=slow / 227=max. speed, 23Hz) Master level full on, Tact off	15
SEG4-Red	0-255	0~100%	16

"4c" identity	Value	Percent/Setting	Channel
Red	0-255	0~100%	1
Green	0-255	0~100%	2
Blue	0-255	0~100%	3
Amber	0-255	0~100%	4

"5c" identity	Value	Percent/Setting	Channel
Red	0-255	0~100%	1
Green	0-255	0~100%	2
Blue	0-255	0~100%	3
Amber	0-255	0~100%	4
Dimmer/Strobe	0-127 128-227 228-255	Master level Tact (128=slow / 227=max. speed, 23Hz) Master level full on, Tact off	5

"6c" identity	Value	Percent/Setting	Channel
Red	0-255	0~100%	1
Green	0-255	0~100%	2
Blue	0-255	0~100%	3
Amber	0-255	0~100%	4
Dimmer	0-255	0~100%	5
Strobe	0-255	0~100%	6

"12c" identity	Value	Percent/Setting	Channel
SEG1-Red	0-255	0~100%	1
SEG1-Green	0-255	0~100%	2
SEG1-Blue	0-255	0~100%	3
SEG1-Amber	0-255	0~100%	Emulated
SEG2-Red	0-255	0~100%	4
SEG2-Green	0-255	0~100%	5
SEG2-Blue	0-255	0~100%	6
SEG2-Amber	0-255	0~100%	Emulated
SEG3-Red	0-255	0~100%	7
SEG3-Green	0-255	0~100%	8
SEG3-Blue	0-255	0~100%	9
SEG3-Amber	0-255	0~100%	Emulated
SEG4-Red	0-255	0~100%	10
SEG4-Green	0-255	0~100%	11
SEG4-Blue	0-255	0~100%	12
SEG4-Amber	0-255	0~100%	Emulated

■ Operation

All user controls are located on the bottom panel of the unit:
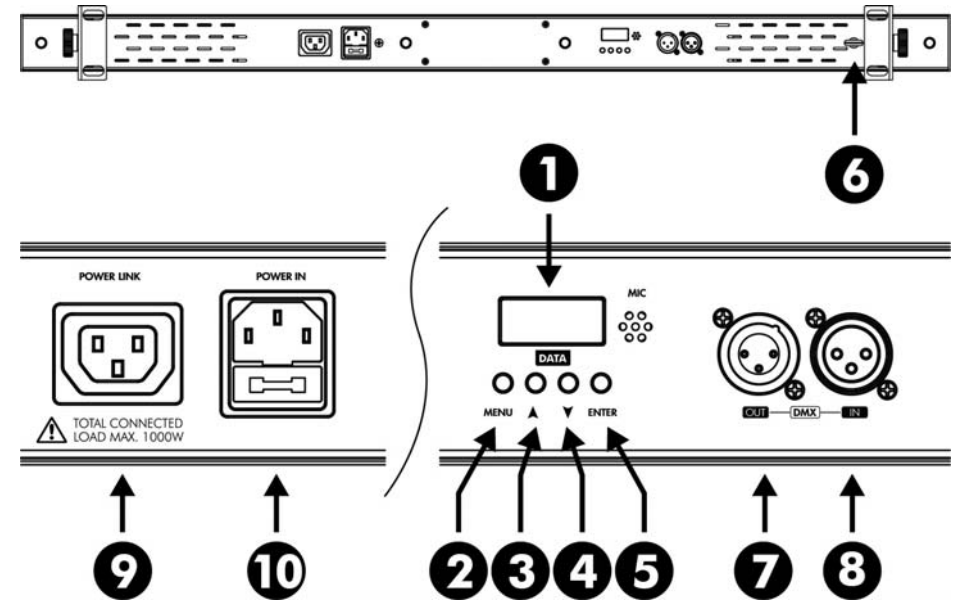
User interface overview:

1. Display showing the Mode, DMX-address, etc.
2. MENU selection button
3. UP button
4. DOWN button
5. ENTER button
6. Security lug thread insert (M6)
7. DMX Output (Female XLR)
8. DMX Input (Male XLR)
9. AC Output (max. 8A combined)
10. AC Input

Upon the user's choice, the unit can work stand-alone as a 1-Segment device or a 4-Segment device, or it may be control by external DMX-controllers as a 1-Segment device or a 4-sgement device. Available modes:

Menu	Mode	DMX	Function
"C"	Colour	Master	Fixed colour
"P"	Pattern	Master	Colour Change Pattern (internal speed)
"A"	Audio	Master	Colour Change Pattern (sound to light)
"F"	Flash	Master	Fixed-colour strobe
"d"	DMX	Slave	DMX channel setting
"L"	Level	n/a	Dimmer Level for "C"/"P"/"A"/"F" modes
"S"	Speed	n/a	Speed for "P" and "F" modes
"t"	Threshold	n/a	Audio threshold for "A" mode
"I"	Identity	n/a	DMX Personality.
"U"	Utility	n/a	Auto display on/off

"C" Colour Mode

Press the MENU button (2) until the first digit on the display shows "C-", indicating operation in "C" (COLOUR) mode. Then choose your desired colour by using the UP/DOWN buttons (3/4), see list below. Depending on the chosen preset, the 4 segments of the unit will show the same or different colours. During this process, the display will flash. Press the ENTER button (5) to invoke the change, which is indicated by the display stop flashing. If ENTER is not pressed in between 3 seconds, the last two digits revert to the prior setting and the display stops flashing.

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NOTE: The "C" Mode is automatically disabled and cannot be chosen when the unit is switched to DMX Mode ("d") and an external DMX signal is received.

In "C" mode, the unit does not receive any values from the DMX input, but generates related DMX values on the output according to the selected colour, so that other similar units can show the same colour if they are connected by DMX signal cables and set to DMX Slave Mode "d". Available colour presets:

Presets C-01… C-14 (all 4 Segments same color)

Preset	Colour	R	G	B	Y
01	Red	255	0	0	0
02	Green	0	255	0	0
03	Blue	0	0	255	0
04	Yellow	255	255	0	255
05	Pink	255	0	255	0
06	Turquoise	0	255	255	0
07	Lime	127	255	0	127
08	Orange	255	127	0	127

ENTER button (5) to invoke the change, which is indicated by the display stop flashing. If ENTER is not pressed in between 3 seconds, the last two digits revert to the prior setting and the display stops flashing.

The speed setting is only applicable to modes where the unit acts in stand-alone operation and running patterns on internal clock, namely in "P" and "F" modes.

This setting is stored even if the device is switched off.

"t" Threshold (for Audio) Mode

Press the MENU button (2) until the display shows "t-", indicating operation in "t" (THRESHOLD) mode. The display will show the current threshold setting in the residual 2 display digits, with values from 01…10. Choose any other threshold setting by simply using the UP/DOWN buttons (3/4). During this process, the display will flash. Press the ENTER button (5) to invoke the change, which is indicated by the display stop flashing. If ENTER is not pressed in between 3 seconds, the last two digits revert to the prior setting and the display stops flashing.

The threshold setting will determine the sensitivity of the internal microphone circuit and is hence only applicable to modes where the unit acts in stand-alone operation and running patterns on external audio clock, namely in "A" mode. This setting is stored even if the device is switched off.

"I" Identity (for DMX) Mode

Press the MENU button (2) until the display shows "I-", indicating operation in "I" (IDENTITY) mode. The display will show the current identity (DMX personality) setting in the residual 2 display digits, with choices as listed below. Choose another setting the UP/DOWN buttons (3/4). In this process, the display will flash. Press the ENTER button (5) to invoke the change, and by the display stop flashing. If ENTER is not pressed after 3 seconds, the last two digits revert to prior settings and the display stops flashing.

The identity (personality) setting will determine the number of DMX channels following the start channel set in the "d" (DMX) menu, on which the unit will receive DMX control signals. The available identities/personalities are:

"3c" identity	Value	Percent/Setting	Channel
Red	0-255	0~100%	1
Green	0-255	0~100%	2
Blue	0-255	0~100%	3
Amber	0-255	0~100%	Emulated

Note: The strobe speed can be chosen in the "S" Menu

If you leave mode "F" for any reason and come back later into mode "C", the unit will recall the last chosen colour (even if the unit was switched off in between).

"d" DMX Mode

Press the MENU button (2) until the display shows "d", indicating operation in "d" (DMX) mode. The display will show the current DMX starting address in the residual 3 display digits. Choose another DMX starting address by pressing the UP/DOWN buttons (3/4). In this process, the display will flash. Press the ENTER button (5) to invoke the change, which is indicated by the display stop flashing. If ENTER is not pressed in between 3 seconds, the last two digits revert to the prior setting and the display stops flashing.

The unit receives DMX values in channel packets of selectable size, see the "I" (IDENTITY) menu for available selections. If a DMX signal is present, the display will show a decimal point after the first digit (the letter "d"). This setting is stored even if the device is switched off.

"L" Level Mode

Press the MENU button (2) until the display shows "L-", indicating operation in "L" (LEVEL) mode. The display will show the current brightness level in the residual 2 display digits, with values from 00…99. Choose any other brightness level by simply using the UP/DOWN buttons (3/4). During this process, the display will flash. Press the ENTER button (5) to invoke the change, which is indicated by the display stop flashing. If ENTER is not pressed in between 3 seconds, the last two digits revert to the prior setting and the display stops flashing.

The level setting is only applicable to modes where the unit acts in stand-alone operation, namely in "C" / "P" / "A" / "F" modes.

Note that the unit features an internal limiter to avoid exceeding thermal limits in continuous operation. Once the selection of current colour and current level exceed the permitted limits, the limiter will be active, indicated by a lit decimal point after the 2nd digit of the display.

This setting is stored even if the device is switched off.

"S" Speed Mode

Press the MENU button (2) until the display shows "S-", indicating operation in "S" (SPEED) mode. The display will show the current speed setting in the residual 2 display digits, with values from 01…10. Choose any other speed setting by simply using the UP/DOWN buttons (3/4). During this process, the display will flash. Press the

09	Marine	0	127	255	0
10	Lavender	127	0	255	0
11	Candy	255	0	127	0
12	Leaf	190	255	127	190
13	Purple	190	127	255	127
14	White	255	255	255	255

Presets C-20…C-29 (SEG1+3/SEG2+4 same colours; definitions see above)

Preset	SEG1	SEG2	SEG3	SEG4
20	Green	Blue	Green	Blue
21	Green	Orange	Green	Orange
22	Green	Pink	Green	Pink
23	Red	Green	Red	Green
24	Red	Blue	Red	Blue
25	Blue	Orange	Blue	Orange
26	Blue	Pink	Blue	Pink
27	Yellow	Pink	Yellow	Pink
28	Turquoise	Lime	Turquoise	Lime
29	Lavender	Candy	Lavender	Candy

Presets C-30…C-32 (SEG1/2/3/4 different colours; definitions see above)

Preset	SEG1	SEG2	SEG3	SEG4
30	Red	Green	Orange	Blue
31	Yellow	Pink	Turquoise	Lime
32	Lime	Orange	Lavender	Candy

If you leave mode "C" for any reason and come back later into mode "C", the unit will recall the last chosen colour (even if the unit was switched off in between).

"P" Pattern Mode

Press the MENU button (2) until the first digit on the display shows "P-", indicating operation in "P" (Pattern) mode. Then choose by using the UP/DOWN buttons (3/4) one of the 20 available presets. During this process, the display will flash. Press the ENTER button (5) to invoke the change, which is indicated by the display stop flashing. If ENTER is not pressed in between 3 seconds, the last two digits revert to the prior setting and the display stops flashing.

The available presets are divided into two groups and are based on colours 1-8 as defined in the "C" (Colour) mode. The first ten presets run with switching transition between the steps (Cx presets), the second ten with fading transition (Fx presets):
C0: All segments on, switching transition through all 8 available colours
C1-C8: switching chaser S1-S2-S3-S4, one segment at a time, all segments same colour

C9: switching chaser S1-S2-S3-S4, one segment at a time, colours run through all 8 available colours (each colour completes one 4-step chase)
F0: All segments on, fading transition through all 8 available colours
F1-F8: fading chaser S1-S2-S3-S4, one segment at a time, all segments same colour
F9: fading chaser S1-S2-S3-S4, one segment at a time, colours run through all 8 available colours (each colour completes one 4-step chase)

Note: The pattern speed can be chosen in the "S" Menu

NOTE: The "P" Mode is automatically disabled and cannot be chosen when the unit is switched to DMX Mode ("d") and an external DMX signal is received.

In "P" mode, the unit does not receive any values from the DMX input, but generates related DMX values on the output according to the selected pattern, so that other similar units can show the same pattern if they are connected by DMX signal cables and set to DMX Slave Mode "d".

If you leave mode "P" for any reason and come back later into mode "P", the unit will recall the last chosen pattern (even if the unit was switched off in between).

"A" Audio Mode

Press the MENU button (2) until the first digit on the display shows "A-", indicating operation in "A" (Audio) mode. Then choose by using the UP/DOWN buttons (3/4) one of the 20 available presets. During this process, the display will flash. Press the ENTER button (5) to invoke the change, which is indicated by the display stop flashing. If ENTER is not pressed in between 3 seconds, the last two digits revert to prior setting and stop flashing

The available presets are divided into two groups and are based on colours 1-8 as defined in the "C" (Colour) mode. The first ten presets run with switching transition between the steps (Cx presets), the second ten with fading transition (Fx presets):
C0: All segments on, switching transition through all 8 available colours
C1-C8: switching chaser S1-S2-S3-S4, one segment at a time, all segments same colour
C9: switching chaser S1-S2-S3-S4, one segment at a time, colours run through all 8 available colours (each colour completes one 4-step chase)
F0: All segments on, fading transition through all 8 available colours
F1-F8: fading chaser S1-S2-S3-S4, one segment at a time, all segments same colour
F9: fading chaser S1-S2-S3-S4, one segment at a time, colours run through all 8 available colours (each colour completes one 4-step chase)

Note: The pattern speed is driven by the audio signal received by the internal microphone. The sensitivity threshold can be set in the "t" Menu.

NOTE: The "A" Mode is automatically disabled and cannot be chosen when the unit is switched to DMX Mode ("d") and an external DMX signal is received.

In "A" mode, the unit does not receive any values from the DMX input, but generates related DMX values on the output according to the selected pattern, so that other similar units can show the same pattern if they are connected by DMX signal cables and set to DMX Slave Mode "d".

If you leave mode "A" for any reason and come back later into mode "P", the unit will recall the last chosen pattern (even if the unit was switched off in between).

"F" Flash (Strobe) Mode

Press the MENU button (2) until the first digit on the display shows "F-", indicating operation in "F" (FLASH) mode. Then choose your desired colour by using the UP/DOWN buttons (3/4), see list below. During this process, the display will flash. Press the ENTER button (5) to invoke the change, which is indicated by the display stop flashing. If ENTER is not pressed in between 3 seconds, the last two digits revert to the prior setting and the display stops flashing.

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NOTE: The "F" Mode is automatically disabled and cannot be chosen when the unit is switched to DMX Mode ("d") and an external DMX signal is received.

In "F" mode, the unit does not receive any values from the DMX input, but generates related DMX values on the output according to the selected colour, so that other similar units can show the same colour if they are connected by DMX signal cables and set to DMX Slave Mode "d".

Available colour presets:

Preset	Colour	R	G	B	Y
01	Red	255	0	0	0
02	Green	0	255	0	0
03	Blue	0	0	255	0
04	Yellow	255	255	0	255
05	Pink	255	0	255	0
06	Turquoise	0	255	255	0
07	Lime	127	255	0	127
08	Orange	255	127	0	127
09	Marine	0	127	255	0
10	Lavender	127	0	255	0
11	Candy	255	0	127	0
12	Leaf	190	255	127	190
13	Purple	190	127	255	127
14	White	255	255	255	255