

USER MANUAL

VersoClub-HT3012

DMX-controlled RGB 4-Segment Mini LED Stage Bar

For firmware 50-015-0308-00103-1-00 Firmware RevD (MKIII-MF 4SEG-S2L)

ENGLISH Page 2-19



■ Introduction

Dear customer,

congratulations on the purchase of this quality item and the trust having been put in us with this decision. 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.

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.



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.

■ Maintenance

This device does not need regular maintenance. It is protected by an internal fuse located on the power supply PCB. If this fuse fails, this usually indicates an internal fault requiring servicing by a qualified engineer. The fuse shall only be replaced by a fuse of same specification, and the replacement has to be made by qualified personnel obeying applicable safety rules.

■ Technical data VersoClub-HT3012

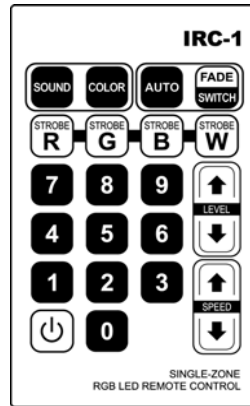
LEDs.....	4 panels, each 3x3W RGB MultiLED
Dispersion angle.....	40°
Mains Input.....	AC100-250V~ 50/60Hz
Power supply type.....	switch mode
Fuse.....	internal (see service manual)
DMX connections.....	3 pin XLR (Male / Female)
Modulation Type.....	Pulse Width Modulation (PWM)
Control protocol.....	DMX 512 (1990)
Power consumption.....	56W
Dimension.....	375.00x160.00x60.00 mm
Weight.....	2.26 kg

■ Standards

This product complies with the following standards:

EU electrical safety.....	EN60598-1:2008, EN60598-2-1:1989
EU photobiological safety.....	EN 62471:2008
EU EMC.....	EN55015: 2006 + A1:2007, EN61547:1995 + A1:2000
EU Harmonics	EN61000-3-2:2006
EU Flicker	EN61000-3-3:2008
US safety	UL60065
US EMC.....	FCC Part 15

This product meets both the EMC Directive 2004/108/EC and the Low Voltage Directive 2006/95/EC.



ON/OFF (Blackout) Key – the unit's light output can be enabled/disabled with this key.

SOUND Key – the unit will work in sound-to-light mode. A pattern can be chosen with the number keys 0...9 and will relate to the patterns SL0...SL9 as available on the main unit itself. The dimming level can be varied with the relative UP/DOWN keys in ten steps.

COLOR Key – the unit will work in fixed color mode. A color can be chosen with the number keys 0...9 and will relate to the first 9 preset colors from the unit's onboard C-Mode. The dimming level can be varied with the relative UP/DOWN keys in ten steps.

AUTO Key – the unit will work in AUTO mode, and a relative pattern can be chosen with the number keys. The number keys directly relate to the pattern numbers, but depend on whether FADE or SWITCH is active. If FADE is active, then the number keys 0...9 relate to patterns A10...A19, if SWITCH is active then the number keys on the remote control relate to patterns A20...A29. The pattern speed and the dimming level can be varied with the relative UP/DOWN keys in ten steps.

STROBE Keys – allow to activate white/red/green/blue strobe directly. Default speed is 16Hz. The dimming level can be varied with the relative UP/DOWN keys in ten steps.

LEVEL UP/DOWN Keys – allow to set the dimming level of the unit in ten different steps. Since this control is not available on the on-board user interface of the main unit, the setting will get lost when switching the modes between COLOR and AUTO.

SPEED UP/DOWN Keys - allow to set the execution speed of the AUTO mode in ten different steps. Since this control is not available on the on-board user interface of the main unit, the setting will get lost when switching the between modes.

■ 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 1, and may hence reach to risk group 2.
2. To avoid eye injury, do not look into the beam from a distance of less than 8.50m (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 accidentally 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 disconnect 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 35 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.
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 maintenance 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.

CH13=	000...255	Panel 3 Dimmer BLUE
CH14=	000...255	Panel 3 Master Dimmer
CH15=	000...255	Panel 3 Strobe
CH16=	000...255	Panel 4 Dimmer RED
CH17=	000...255	Panel 4 Dimmer GREEN
CH18=	000...255	Panel 4 Dimmer BLUE
CH19=	000...255	Panel 4 Master Dimmer
CH20=	000...255	Panel 4 Strobe

dFP = Full Preset Mode

Function: 4 channels: Mode/Pattern | Dimmer | Color/Speed | Strobe

The unit receives DMX values on a packet of 4 consecutive DMX channels, with the following functional assignment:

CH1 = Choice of fixed colors (if CH3 < 25) or fade/switch pattern presets (if CH3 ≥ 25)

CH2 = 000...255 Master Dimmer 0...100%

CH3 = Function choice C (Color – static) and A (Auto) mode, speed setting for A mode.

CH3 0.....24 selects the fixed color (C) mode. Color choice by CH1.

CH3 25.....234 selects the auto (A) mode and determines the speed. Pattern choice by CH1.

CH3 235...255 selects the sound-to-light (S) mode. Pattern choice by CH1.

CH4 = 000...049 Strobe off, 050...255 Strobe rate (050=slow / 255=max. speed 23 Hz)

DMX Reverse Function

Press the MODE button on until the display shows “dIn”. Using the UP/DOWN buttons, a choice between ON and OFF can be made. This choice applied globally to any chosen DMX mode and will invert the channel sequence when chosen as “ON”.

Display on/off

The display of the unit will turn off after 25 seconds of not receiving any user commands through the user interface buttons. On the first hit of any button, the display will light up again; this first hit will not change any settings, only when you press any button after that, settings will be affected.

Infrared Remote Control (IRC)

As an optional accessory, this unit can be accompanied by an infrared (IR) remote control. Please note that all versions of this product are fitted with the required IR receiver, in this case the following functional description may not be applicable to your product; in other configurations, the IR receiver may be fitted but the remote control unit needs to be purchased separately and is not part of the delivery of this unit. You may contact your distributor/dealer for details.

d16 = DMX 16-Channel Mode

Function: 3 colors RGB + combined master/strobe (4 channels) for each panel

The unit receives DMX values on a packet of 16 consecutive DMX channels, with the following functional assignment:

CH1 =	000...255	Panel 1 Dimmer RED
CH2 =	000...255	Panel 1 Dimmer GREEN
CH3 =	000...255	Panel 1 Dimmer BLUE
CH4 =	000...255	Panel 1 Master Dim / Strobe
	000...127	Master Dimmer 0...100%
	128...227	Strobe speed (128=slow / 227=max. speed 23 Hz)
	228...255	Master Dimmer = 100% Strobe off
CH5 =	000...255	Panel 2 Dimmer RED
CH6 =	000...255	Panel 2 Dimmer GREEN
CH7 =	000...255	Panel 2 Dimmer BLUE
CH8 =	000...255	Panel 2 Master Dim / Strobe
	000...127	Master Dimmer 0...100%
	128...227	Strobe speed (128=slow / 227=max. speed 23 Hz)
	228...255	Master Dimmer = 100% Strobe off
CH9 =	000...255	Panel 3 Dimmer RED
CH10 =	000...255	Panel 3 Dimmer GREEN
CH11 =	000...255	Panel 3 Dimmer BLUE
CH12 =	000...255	Panel 3 Master Dim / Strobe
	000...127	Master Dimmer 0...100%
	128...227	Strobe speed (128=slow / 227=max. speed 23 Hz)
	228...255	Master Dimmer = 100% Strobe off
CH13 =	000...255	Panel 4 Dimmer RED
CH14 =	000...255	Panel 4 Dimmer GREEN
CH15 =	000...255	Panel 4 Dimmer BLUE
CH16 =	000...255	Panel 4 Master Dim / Strobe
	000...127	Master Dimmer 0...100%
	128...227	Strobe speed (128=slow / 227=max. speed 23 Hz)
	228...255	Master Dimmer = 100% Strobe off

d20 = DMX 20-Channel Mode

Function: 3 colors RGB + master + strobe (5 channels) for each panel

The unit receives DMX values on a packet of 20 consecutive DMX channels, with the following functional assignment:

CH1 =	000...255	Panel 1 Dimmer RED
CH2 =	000...255	Panel 1 Dimmer GREEN
CH3 =	000...255	Panel 1 Dimmer BLUE
CH4 =	000...255	Panel 1 Master Dimmer
CH5 =	000...255	Panel 1 Strobe
CH6 =	000...255	Panel 2 Dimmer RED
CH7 =	000...255	Panel 2 Dimmer GREEN
CH8 =	000...255	Panel 2 Dimmer BLUE
CH9 =	000...255	Panel 2 Master Dimmer
CH10 =	000...255	Panel 2 Strobe
CH11 =	000...255	Panel 3 Dimmer RED
CH12 =	000...255	Panel 3 Dimmer GREEN

■ 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. VersoClub-HT3012 main unit
	1 pc. mains cable
	1 pc. operation manual

■ Getting started: choosing a location



Risk of fire: The VersoClub-HT3012 has been designed to work in dry indoor environments at environmental temperatures of up to 35 degrees Celsius. For proper operation, the unit must be operated with unobstructed air convection to its outside metal case.

Do not:

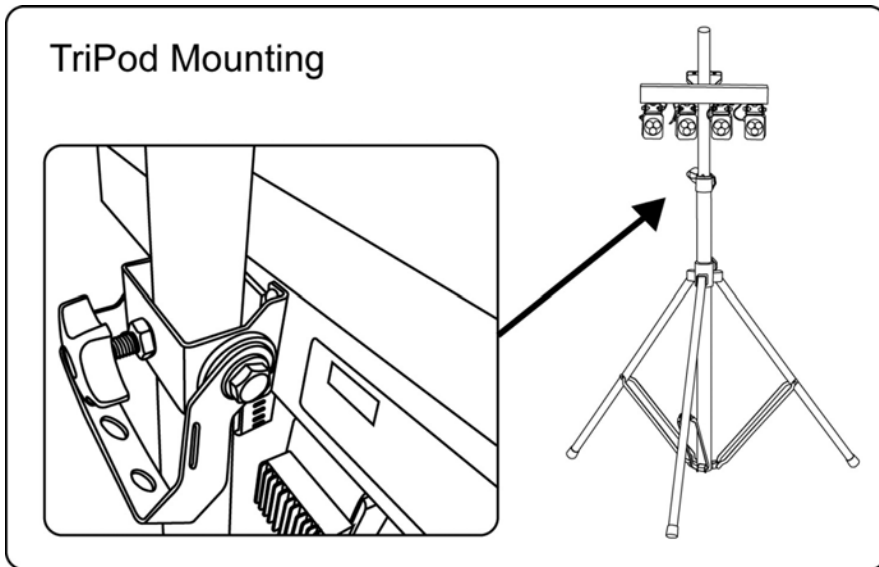
- Operate the VersoClub-HT3012 in environments with more than 35 degrees environmental temperature or more than 75% relative humidity.
- Operate the VersoClub-HT3012 in any closed environment smaller than 10cbm, unless forced air convection is provided.

■ Getting started: secure mounting

The VersoClub-HT3012 can be mounted in various ways:

Floor standing operation (with tripod)

The VersoClub-HT3012 is designed to be mounted on a tripod with 35mm tube diameter. It can both be mounted on top as well as in any other height on the tripod tube. Make sure that the diameter of the inserted tripod tube is not less than 35mm as otherwise secure mounting cannot be granted. Slide the tripod adaptor over the tripod tube to full extent and secure the unit with the provided screw handle.



dC3 = DMX Combined 3CH Mode

Function: 3 colors RGB (3 channels) for all panels

The unit receives DMX values on a packet of 3 consecutive DMX channels, with the following functional assignment:

CH1 =	000...255	Dimmer RED	(all segments)
CH2 =	000...255	Dimmer GREEN	(all segments)
CH3 =	000...255	Dimmer BLUE	(all segments)

dC4 = DMX Combined 4CH Mode

Function: 3 colors RGB + combined master/strobe for all panels

The unit receives DMX values on a packet of 4 consecutive DMX channels, with the following functional assignment:

CH1 =	000...255	Dimmer RED	(all segments)
CH2 =	000...255	Dimmer GREEN	(all segments)
CH3 =	000...255	Dimmer BLUE	(all segments)
CH4 =	000...127	Master Dimmer 0...100%	(all segments)
	128...227	Strobe speed (128=slow / 227=max. speed 23 Hz)	
	228...255	Master Dimmer = 100% Strobe off	

dC5 = DMX Combined 5CH Mode

Function: 3 colors RGB + separate master/strobe for all panels

The unit receives DMX values on a packet of 5 consecutive DMX channels, with the following functional assignment:

CH1 =	000...255	Dimmer RED	(all segments)
CH2 =	000...255	Dimmer GREEN	(all segments)
CH3 =	000...255	Dimmer BLUE	(all segments)
CH4 =	000...255	Master Dimmer	(all segments)
CH5 =	000...255	Strobe	(all segments)

d12 = DMX 12-Channel Mode

Function: 3 colors RGB (3 channels) for each panel

The unit receives DMX values on a packet of 12 consecutive DMX channels, with the following functional assignment:

CH1 =	000...255	Panel 1 Dimmer RED
CH2 =	000...255	Panel 1 Dimmer GREEN
CH3 =	000...255	Panel 1 Dimmer BLUE
CH4 =	000...255	Panel 2 Dimmer RED
CH5 =	000...255	Panel 2 Dimmer GREEN
CH6 =	000...255	Panel 2 Dimmer BLUE
CH7 =	000...255	Panel 3 Dimmer RED
CH8 =	000...255	Panel 3 Dimmer GREEN
CH9 =	000...255	Panel 3 Dimmer BLUE
CH10 =	000...255	Panel 4 Dimmer RED
CH11 =	000...255	Panel 4 Dimmer GREEN
CH12 =	000...255	Panel 4 Dimmer BLUE

Note: This mode serves as the primary slave mode setting. No specific slave mode is provided.

A4 (fading) | A14 (switching) | S4 (S2L fading) | S14 (S2L switching)
A color-fill/Blink pattern. Transition is switching in Switch Pattern mode, and fading in Fade pattern mode.

A5 (fading) | A15 (switching) | S5 (S2L fading) | S15 (S2L switching)
A Fork22 pattern with all 4 panels on. Transition is switching in Switch Pattern mode, and fading in Fade pattern mode.

A6 (fading) | A16 (switching) | S6 (S2L fading) | S16 (S2L switching)
A 1C Pingpong pattern. Transition is switching in Switch Pattern mode, and fading in Fade pattern mode.

A7 (fading) | A17 (switching) | S7 (S2L fading) | S17 (S2L switching)
A 4C Pingpong pattern. Transition is switching in Switch Pattern mode, and fading in Fade pattern mode.

A8 (fading) | A18 (switching) | S8 (S2L fading) | S18 (S2L switching)
A Frame22 pattern. Transition is switching in Switch Pattern mode, and fading in Fade pattern mode.

A9 (fading) | S9 (S2L fading) | S19 (S2L switching)
A 4-step pattern. Transition is switching in Switch Pattern mode, and fading in Fade pattern mode.

A19 (switching+strobe) :
A Strobe pattern. All panels strobe at the same time, with alternating colors.

A20: white strobe
A21: red strobe
A22: green strobe
A23: blue strobe

DMX Modes

Press the MODE button on the unit itself until the display shows any of the below options, which are displayed consecutively, indicating operation in the chosen DMX mode. You then can choose any DMX starting address by simply using the UP/DOWN buttons on the unit itself. The chosen DMX-address becomes effective approximately 3 seconds later and will show up on the display on the unit itself in alternation to the indicator of the chosen mode. This allows control of the unit by any external DMX signal sending on the chosen channels. Once such signal is received, a LED on the lower right side of the “d” in the display indicates that a DMX signal is present. Once in “d” Mode, the IR remote control sensor is disabled. Also note that DMX functions cannot be activated via the optional IR remote.

When using a tripod, make sure that:

- the tripod is erected to a height where the audience can neither accidentally nor intentionally touch it
- the working height is in enough distance to ceiling or other constructions on top to avoid any heat accumulation
- the working load of the used tripod is sufficient to carry this unit. Do only use safety-certified tripods.
- the tripod has a locking mechanism against unintentional tube retraction.
- the tripod stands on even and firm ground.
- any cable running to and from the trip is not obstructing pathways of the audience, and that no any pull force on a cable can make the tripod fall over.
- the tripod base is either out of audience reach or gated with a security fence
- the tripod is placed outside of any evacuation paths.



Risk of injury: Tripod mounting requires related knowledge and experience, including among others calculating and balancing working load limits, correct positioning and securing, and periodic safety inspection. Improper installation can result in body injury. The manufacturer of this unit does not assume any liability for correct and secure placement and use of tripods – make sure to comply with local safety regulations.

Hanging/Rigging, ceiling-mounted operation

Further to the tripod mounting adaptor, the VersoClub-HT3012 is equipped with two M10 thread insert mounting points on the top of the unit. These can typically be used to insert truss hooks or other rigging equipment.



Risk of injury: Overhead mounting requires extensive experience, including among others calculating working load limits, good knowledge of the installation material being used, 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.

- 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.
- When mounting the unit to truss be sure to secure an appropriately rated clamp to the hanging yoke using a M10 screw fitted through the center hole of the hanging yoke.

- Where required, secure the installation with an appropriate safety cable. Always use a certified safety cable according to EN60598-2-17 Section 17.6.6 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



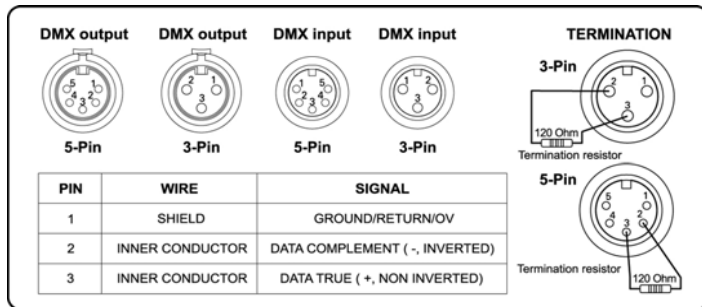
Risk of fire / Safety risk

The VersoClub-HT3012 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 VersoClub-HT3012 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 VersoClub-HT3012 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:



The output level (brightness) can be set in 10 levels: 10% | 20% | 30% | 40% | 50% | 60% | 70% | 80% | 90% | 100%. To do this with the on-board user interface, the user must change into COLOR mode first and make a global brightness adjustment as described in the COLOR mode chapter. For units fitted with the optional IR remote control, the brightness can also be set directly using the LEVEL UP/DOWN buttons on the IR remote.

If the unit is controlled by the optional IR remote control, further parameters apply as follows:

- When activating the STROBE function (Strobe RED/GREEN/BLUE/WHITE buttons) on the IR remote control, the unit will return to previously chosen pattern preset upon pressing the STROBE function on the IR remote again. Note that the strobe speed is fixed at 16Hz and cannot be changed. Also note that the strobe function always applies to all panels with the same color.
- Once Blackout is activated by the IR remote control, the previous operation mode is stored and recalled once Blackout is cleared by pressing the relative button on the IR remote again.
- The IR remote is only active when the unit is in C, A and S modes. If you intend to control the unit by IR remote, make sure by relative setting on the unit itself that the unit is NOT in any DMX mode.

In “S” mode, the unit does not receive any values from the DMX input but generates related DMX values on the output (12CH) according to the selected pattern, so that further units can show the same behaviour if they are connected by DMX signal cables and set to DMX mode “d12” with starting channel = 001. If you leave “S” for any reason and come back later into any of these modes, the unit will recall the last chosen pattern (even if the unit was switched off in between).

Patterns for A and S Modes

A0 (fading) | A10 (switching) | S0 (S2L fading) | S10 (S2L switching)
Plays pattern 1/2/3/4/5/6/7/8, each 4 times in a cycle. Transition is switching in Switch Pattern mode, and fading in Fade pattern mode.

A1 (fading) | A11 (switching) | S1 (S2L fading) | S11 (S2L switching)
A color-change on all panels at the same time. Transition is switching in Switch Pattern mode, and fading in Fade pattern mode.

A2 (fading) | A12 (switching) | S2 (S2L fading) | S12 (S2L switching)
A ZIP up-down. Transition is switching in Switch Pattern mode, and fading in Fade pattern mode.

A3 (fading) | A13 (switching) | S3 (S2L fading) | S13 (S2L switching)
A ZIP-Replacement pattern with all 4 panels on, but replacing one color by another in a ZIP up-down manner. Transition is switching in Switch Pattern mode, and fading in Fade pattern mode.

The output level (brightness) can be set in 10 levels: 10% | 20% | 30% | 40% | 50% | 60% | 70% | 80% | 90% | 100%. To do this with the on-board user interface, the user must change into COLOR mode first and make a global brightness adjustment as described in the COLOR mode chapter. For units fitted with the optional IR remote control, the brightness can also be set directly using the LEVEL UP/DOWN buttons on the IR remote.

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- Once Blackout is activated by the IR remote control, the previous operation mode is stored and recalled once Blackout is cleared by pressing the relative button on the IR remote again.
- The IR remote is only active when the unit is in C, A and S modes. If you intend to control the unit by IR remote, make sure by relative setting on the unit itself that the unit is NOT in any DMX mode.

In “A” mode, the unit does not receive any values from the DMX input but generates related DMX values on the output (12CH) according to the selected pattern, so that further units can show the same behaviour if they are connected by DMX signal cables and set to DMX mode “d12” with starting channel = 001. If you leave “A” for any reason and come back later into any of these modes, the unit will recall the last chosen pattern (even if the unit was switched off in between).

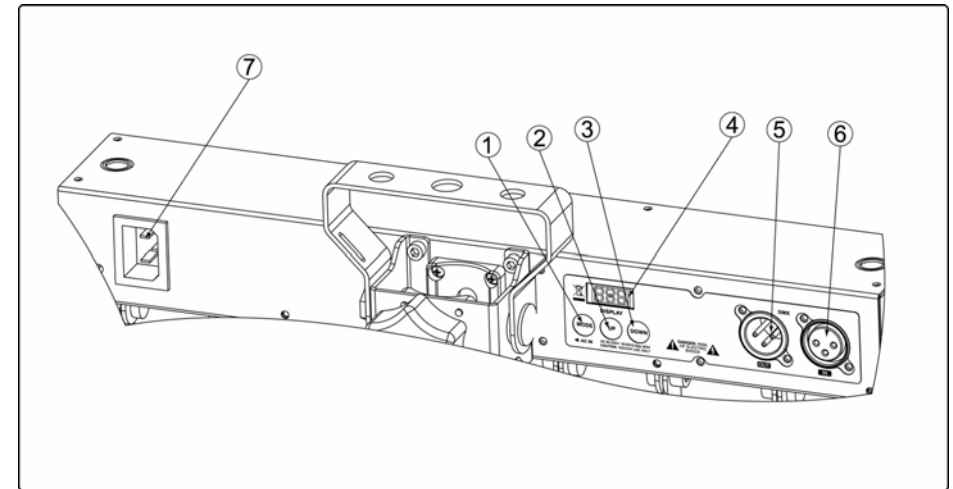
“S” Sound-to-Light Mode

Press the MODE button on the unit itself until the display shows “Sxx”, indicating operation in “S” (S2L=sound-to-light) mode. The S Mode contains 20 different patterns, 10 thereof with fading transition (Patterns S0...S9) and 10 thereof with switching transition (patterns S10...S19). The patterns can be chosen by the UP/DOWN buttons on the unit itself or for units fitted with the optional IR remote control, via the selection of S2L mode and then selecting FADE or SWITCH and pressing the respective number key for pattern selection. For a description of the available patterns, see section “Patterns for A and S Modes”.

In “S” mode, the pattern progress is driven by the music signal picked up by the internal microphone in the following way: l

- In pattern presets S0...S9, every detected beat will temporarily speed up the color fade, creating a “pulsating” effect in synchronization with the music.
- In pattern presets S10...S19, every detected beat will switch to the next pattern step, creating a “chasing” effect in synchronization with the music.

■ Operation



User interface overview:

- 1 MODE selection button
- 2 UP-Button
- 3 DOWN-Button
- 4 Display showing the Mode, DMX-address, etc.
- 5 DMX input
- 6 DMX output
- 7 AC input

Upon the user’s choice, the unit can work in stand-alone automatic modes, or with fixed colors, or it may be controlled by an optional infrared (IR) remote control or by external DMX-controllers. Available modes:

“C” Color Mode

Press the MODE button until the first digit on the display shows “Cxx”, indicating operation in “C” mode with chosen preset “xx”, then choose by using the UP/DOWN buttons one of the 20 color presets as shown in the list below. For units fitted with the optional IR remote control, press the COLOR button on the IR remote respectively; the first ten color presets (00...09) are available via IR remote by pressing the number keys 0...9 on the IR remote accordingly.

The output level (brightness) can be set in 10 levels: 10% | 20% | 30% | 40% | 50% | 60% | 70% | 80% | 90% | 100%. This is done by pressing and holding the MODE button

and then pressing the UP or DOWN buttons to change the brightness. The current level is displayed while making the adjustment. Note that the brightness setting using the on-board user interface can only be done in COLOR mode and is a global setting for all stand-alone modes, which means that the same chosen brightness remains applicable for the AUTO mode as well. The brightness chosen on the unit itself however has no influence in any of the DMX modes. For units fitted with the optional IR remote control, the brightness can also be set using the LEVEL UP/DOWN buttons. The controls on the unit itself and on the IR remote supersede each other with the last command given having validity.

If the unit is controlled by the optional IR remote control, further parameters apply as follows:

- When activating the STROBE function (Strobe RED/GREEN/BLUE/WHITE buttons) on the IR remote control from within the C (COLOR) Mode, the unit will return to the C (COLOR) Mode in previously chosen Color preset upon pressing the STROBE function on the IR remote again. Note that the strobe speed is fixed at 16Hz and cannot be changed. Also note that the strobe function always applies to all 4 panels with the same color.
- Once Blackout is activated by the IR remote control, the previous operation mode is stored and recalled once Blackout is cleared by pressing the relative button on the IR remote again.
- The IR remote is only active when the unit is in C and A modes. If you intend to control the unit by IR remote, make sure by relative setting on the unit itself that the unit is NOT in any DMX mode.

In “C” mode, the unit does not receive any values from the DMX input but generates related DMX values on the output (12CH) according to the selected preset, so that further units can show the same behaviour if they are connected by DMX signal cables and set to DMX mode “d12” with starting channel = 001. If you leave mode “C” for any reason and come back later into mode “C”, the unit will recall the last chosen color preset (even if the unit was switched off in between).

Available color presets:

Unit	Color	IRC	Unit	Color	IRC
C00	White (W)	0	C11	Turquoise (T)	n/a
C01	Red (R)	1	C12	Lime (L)	n/a
C02	Green (G)	2	C13	Marine (M)	n/a
C03	Blue (B)	3	C14	Frog (F)	n/a
C04	Orange (O)	4	C15	Lavender (V)	n/a
C05	Pink (P)	5	C16	Candy (C)	n/a
C06	Green-Blue (GBGB)	6	C17	Turquoise Lime (TLTL)	n/a
C07	Red-Blue (RBRB)	7	C18	Lavender Candy (LCLC)	n/a
C08	Orange-Green (OGOG)	8	C19	White-Red (WRWR)	n/a
C09	Pink-Blue (PBPB)	9	C20	OFF	Blackout
C10	Yellow				

Color Definitions (in DMX values) as below:

Colour	R	G	B
White (W)	255	255	255
Red (R)	255	0	0
Green (G)	0	255	0
Blue (B)	0	0	255
Yellow (Y)	255	170	0
Pink (P)	255	0	255
Turquoise (T)	0	255	255
Lime (L)	127	255	0
Orange (O)	255	85	0
Marine (M)	0	127	255
Frog (F)	0	255	127
Lavender (V)	127	0	255
Candy (C)	255	0	127
Blackout	0	0	0

“A” Auto Mode

Press the MODE button on the unit itself until the display shows “Axx”, indicating operation in “A” mode. The A Mode contains 24 different patterns, 10 thereof with fading transition (Patterns A0...A9) and 10 thereof with switching transition (patterns 10...19) and 4 thereof as strobe patterns (patterns 20...23). The patterns can be chosen by the UP/DOWN buttons on the unit itself or for units fitted with the optional IR remote control, via the selection of AUTO mode and then selecting FADE or SWITCH and pressing the respective number key for pattern selection. For a description of the available patterns, see section “Patterns for A and S Modes”.

The units will run on a fixed speed can be changed in 10 steps by two different ways:

- by pressing the MENU button on the unit itself for two seconds or longer – the display then (instead of going to the next menu) jumps to speed setting mode and shows the below choices, which can be chosen by the UP and DOWN buttons. Once the desired speed is set, release the MENU button. Note that the speed setting using the on-board user interface can only be done in AUTO mode.
- by the IR remote control where the 10 speed levels SP0...SP9 can be chosen with the SPPED UP and SPPED DOWN buttons

The controls on the unit itself and on the IR remote supersede each other with the last command given having validity.

Note: if instead of a fixed speed the unit is supposed to run in Sound-to-light (S2L) mode, the “S” mode must be chosen or the SOUND button. On the IRC must be pressed.