

Radius 515



1 - Safety information

Important safety information



This unit is intended for indoor use only. Do not use it in a wet, or extremely cold/hot locations. Failure to follow these safety instructions could result in fire, electric shock, injury, or damage to this product or other property.



Any maintenance procedure must be performed by a CONTEST authorised technical service. Basic cleaning operations must thoroughly follow our safety instructions.



This product contains non-isolated electrical components. Do not undertake any maintenance operation when it is switched on as it may result in electric shock.

Symbols used



This symbol signals an important safety precaution.



The WARNING symbol signals a risk to the user's physical integrity. The product may also be damaged.



The CAUTION symbol signals a risk of product deterioration.

Instructions and recommendations

1 - Please read carefully:

We strongly recommend to read carefully and understand the safety instructions before attempting to operate this unit.

2 - Please keep this manual:

We strongly recommend to keep this manual with the unit for future reference.

3 - Operate carefully this product :

We strongly recommend to take into consideration every safety instruction.

4 - Follow the instructions:

Please carefully follow each safety instruction to avoid any physical harm or property damage.

5 - Avoid water and wet locations :

Do not use this product in rain, or near washbasins or other wet locations.

6 - Installation :

We strongly encourage you to only use a fixation system or support recommended by the manufacturer or supplied with this product. Carefully follow the installation instructions and use the adequate tools.

Always ensure this unit is firmly fixed to avoid vibration and slipping while operating as it may result in physical injury.

7 - Ceiling or wall installation :

Please contact your local dealer before attempting any ceiling or wall installation.

8 - Ventilation :

The cooling vents ensure a safe use of this product, and avoid any overheating risk. Do not obstruct or cover these vents as it may result in overheating and potential physical injury or product damage. This product should never been operated in a closed non-ventilated area such as a flight case or a rack, unless cooling vents are provided for the purpose .

9 - Heat exposure:

Sustained contact or proximity with warm surfaces may cause overheating and product damages. Please keep this product away from any heat source such as a heaters, amplifiers, hot plates, etc...

WARNING: This unit contains no user-serviceable parts. Do not open the housing or attempt any maintenance by yourself. In the unlikely even your unit may require service, please contact your nearest dealer.



CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN



In order to avoid any electrical malfunction, please do not use any multi-socket, power cord extension or connecting system without making sure they are perfectly isolated and present no defect.



Warning

This product is equipped with Class 2 LEDs.
Please avoid looking directly at the beam as it may cause severe eve injuries.

Recycling your device



- As HITMUSIC is really involved in the environmental cause, we only commercialise clean, ROHS compliant products.
- When this product reaches its end of life, take it to a collection point designated by local authorities. The separate collection and recycling of your product at the time of disposal will help conserve natural resources and ensure that it is recycled in a manner that protects human health and the environment.

10 - Electric power supply :

This product can only be operated according to a very specific voltage. These information are specified on the label located at the rear of the product.

11 - Power cords protection:

Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at lugs, convenience receptacles and the point where they exit from the fixture.

12 - Cleaning precautions :

Unplug the product before attempting any cleaning operation. This product should be cleaned only with accessories recommended by the manufacturer. Use a damp cloth to clean the surface. Do not wash this product.

13 - Long periods of non use:

Disconnect the unit's main power during long periods of non use.

14 - Liquids or objects penetration :

Do not let any object penetrate this product as it may result in electric shock or fire. Never spill any liquid on this product as it may infiltrate the electronic components and result in electric shock or fire.

15 - This product should be serviced when:

Please contact the qualified service personnel if:

- The power cord or the plug has been damaged.
- Objects have fallen or liquid has been spilled into the appliance.
- The appliance has been exposed to rain or water.
- The product does not appear to operate normally.
- The product does not appear to
 The product has been damaged.

16 - Inspection/maintenance:

Please do not attempt any inspection or maintenance by yourself. Refer all servicing to qualified personnel.

17 - Operating environment:

Ambient temperature and humidity: +5 - +35°C, relative humidity must be less than 85% (when cooling vents are not obstructed).

Do not operate this product in a non-ventilated, very humid or warm place.

2 - Introduction

Thank you for choosing our RADIUS515 projector. You are now in possession of a high-quality, powerful and intelligent projector, which will use all its features to highlight your parties, animations, concerts...

3 - Technical specifications

Source lumineuse

- 5 x 15W RGBW LEDs
- 4-colours-in-1: Red. Green. Blue and White within the same source
- Expected lifespan of 50.000 hours
- Low temperature, low power consumption, can be operated non-stop for many hours

Colours

- Colour macro
- Colour presets

Effects

- Adjustable strobe from 1 20 flashes per second, random strombe and pulse effect
- Adjustable electronic dimmer from 0 100%

Controls

- Standard DMX-512
- 1, 2, 10, 22 or 26 DMX channels
- Built-in program accessible via DMX
- Built-in music-sensitive or automatic programs
- LCD drop-down display for choosing modes and assignation

Optical

• Beam angle: 4°

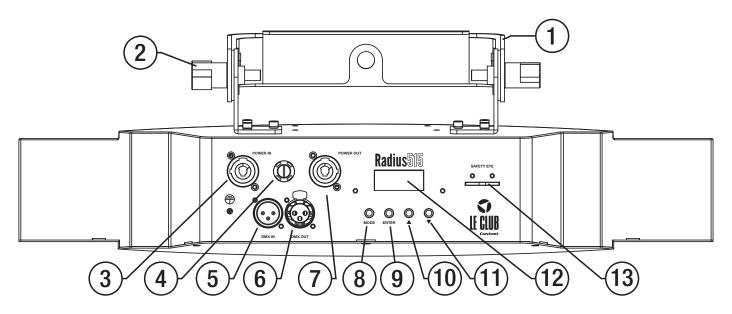
Additional characteristics

- Power consumption: 80W max.
- Power supply: AC 100/230V 50/60Hz
- Double suspension bracket
- Dimensions: 525 x 280 x 250 mm
- Net weight: 5,870 Kg

NOTE

The internal software can be updated via DMX and specific tools. This update can only be performed by a qualified technician.

4 - Description



1 - Double suspension bracket

Allows you to suspend your projector or handle it on the ground

2 - Tightening wheel for suspension bracket

Allows to adjust the position of the projector and lock it in this position.

3 - Power input

POWERCON® IN plug

4 - Fuse

If need to change the fuse, please make sure the new fuse has the exact same characteristics as the old one.

5 - DMX Input via 3-pin XLR socket

3-pin XLR sockets hardwired as follows:

Pin 1 = GND

Pin 2 = DATA -

Pin 3 = DATA +

6 - DMX Output via 3-pin XLR socket

3-pin XLR sockets hardwired as follows:

Pin 1 = GND

Pin 2 = DATA -

Pin 3 = DATA +

7 - Power output

POWERCON® IN plug

8 - MODE Button

Allows you to enter menus or go back the menu tree. Allows you to browse through menus and modify values.

9 - ENTER Button

Allows you to select functions and confirm chosen values.

10 - UP button

Allows you to browse through menus and modify values.

11 - DOWN button

Allows you to browse through menus and modify values.

12 - DOWN button

Allows you to browse through menus and modify values.

13 - Safety ring

Allows to use a second safety cable. Double safety systems are mandatory for usage in public places.



CAUTION!

Please make sure the tightening wheel is securely fastened.

Using a safety cable is mandatory.

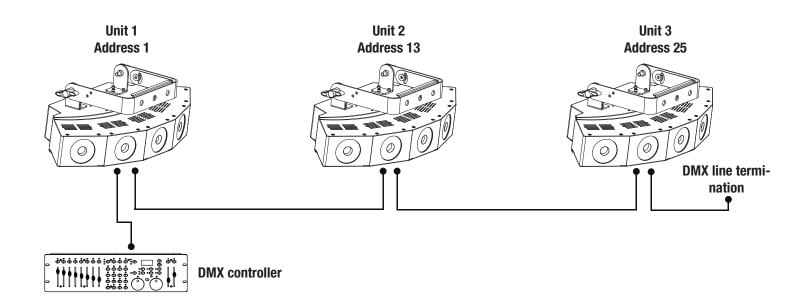
When using this device in public places,

current legislation requires that each devices features a double fixation system to ensure its stability. This system must hold up to 10 times times the weight of the device, meaning you will be required to use a cable able to hold 60 kilos to support your RADIUS515.

5 - Cabling, addressing and daisy chaining

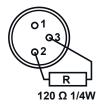
Connecting the DMX remote control:

Connect the female plug of your XLR cable to your DMX remote control XLR output, then connect your cable male output to the moving head. Daisy chain your moving heads with XLR cables.



Using a DMX line termination:

When long runs of cable are used (more than 100m), you may need to use a terminator on the last unit to avoid erratic behavior. A terminator is a 110-120 ohm 1/4 watt resistor which is connected between pins 2 and 3 of a male XLR connector. This unit is inserted in the female XLR connector of the last unit in your daisy chain to terminate the line.



Adressing the units:

Every unit must have a DMX address in order to respond to DMX signals. The address corresponds to the channel number on which the unit receives an incoming DMX signal sent by the DMX remote control. The DMX addressing can be performed by programming the channel number via the display located on the base of the unit.

You can either assign the same address to your units so they all react to the same signal, or assign a unique address per unit to control them independently.

In the example above, RADIUS515 uses 12 channels.

You must skip 12 channels between each address you assign.

The address of the first unit will be 1, the second unit will be 13 (1+12), the third unit will be 25 (13+12) and so on.

NB: Once switched on, the RADIUS515 automatically detects any incoming DMX signal, and the display indicates"A.001" (the unit DMX address). If the unit does not receive any DMX signal, the display will flash. In such a case, please make sure the cable is properly plugged into the DMX input of your moving head, your remote control is switched on and the cables used are not defective.

Daisy chaining:

The POWERCON[©] input/output system allows you to daisy chain several RADIUS515 units.

Warning:



You cannot use the same chain to supply more than 43 RADIUS515 at 220V. When using a 20th projector, please use a new power source

6 - Menu

The RADIUS515 features many menus allowing you to configure its every move and function.

Press MODE / ESC to access the main menu.

Use the navigation keys to browse through submenus. Then press ENTER to access a submenu.

Use the UP and DOWN navigation keys to change values.

Press ENTER to save changes.

Press MODE /ESC again to leave a submenu.

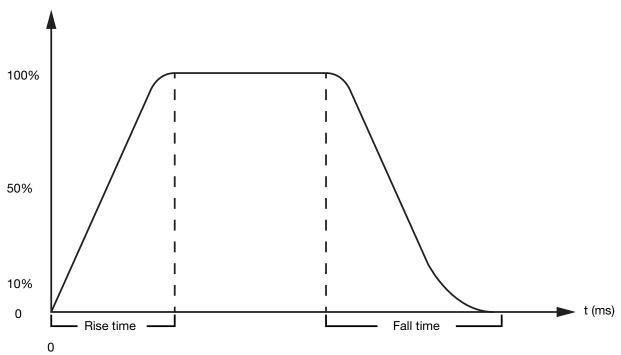
Please note: Values in bold are the default values.

6.1 Menu tree

Menus	Values	Description		
DMX Addr XXX	001 -512	DMX Address configuration. The moving head automatically activates the DMX mode once the DMX address has been configured.		
DMX Mode XXCH	CHANNEL 01 , 02, 10, 22, 26	DMX Mode selection. 5 modes: 1, 2, 12, 22 or 26 DMX channels More details about DMX modes in chapter 7.		
	SLAVE MODE	Activates slave m ode		
	01.STATIC CL:R F:255	Fixed colours		
	02.DREAM SP 00 -99F 000 -255	Cross-fade sequence including preset colours. SP : Sequence speed. F : Strobe speed		
	03.METEOR SP 01 -99F 000 -255	Step sequence including colour presets. Please refer to DMX values for more details about these colours. SP: Sequence speed. F: Strobe speed.		
	04.FADE SP 01 -99F 000 -255	Cross-fade sequence of all LEDs, including preset colours. SP: Sequence speed. F: Strobe speed		
	5.CHANG SP 01 -99F 000 -255	Cross-fade sequence of all LEDs, including preset colours. SP: Sequence speed. F: Strobe speed		
DimCurve XXXXXXXX	DimCurve Standard / Stage / TV / Architectural / Theatre	Please refer to chapter 6.2 for more detailsa bout dimmer curve modes.		
Manual R:XXX	Manual R:XXX / G:XXX / B:XXX / W:XXX /STR:XXX	Allows you to configure manually: - Each colour (R,G, B and W) for all LEDs - Strobe for all LEDs		
NO DMX XXX	NO DMX HOLD / Blackout / Sound	Allows you to determine the behaviour of your projector in case of DMX signal interruption: • Blackout: The projector blacks out • Hold: The projector holds onto the last information received • Sound: The projector enters music-sensitive mode		
PIX FLIP FLIPX	PIX FLIP FLIP1 / FLIP2	Allows you to revert sequences		
Macros XX	Macros 00 / 63	Allows you to select one out of the 63 available macros		

SoundMod Sens: XX	SoundMod Sens:00 /31	Activates the music-sensitive mode. Sound sensitivity relies on Sens values: - Sens:00 : Microphone deactivated - Sens:31 : Maximum sensitivity
	TempUnit °C / F	Allows you to set the temperature unit: °C: Celsius degrees F: Fahrhenheit degrees
	Temp. XXX°C / XXX F	Displays the internal temperature
Whitebal LEDX	Whitebal LED1 / LED2 / LED3 / LED4 / LED5	Allows you to calibrate the colour of each LED. R,G,B and W levels can be configured for each LED.
	AutoLock ON / OFF	Allows you to lock menu commands after a 3-second period of inactivity. Press the MENU button for more than 3 seconds to unlock it.
	DFSE ON / OFF	Resets back to factory settings

6.2 More about the dimmer curves



	De 0 à 255 avec un f	ade time de 0 seconde	De 0 à 255 avec un fade time de 1 seconde		
Dimmer modes	Temps de montée en milliseconde	Temps de descente en milliseconde	Temps de montée en milliseconde	Temps de descente en milliseconde	
Standard	0	0	0	0	
Scene	780	1100	1540	1660	
Television	1180	1520	1660	1940	
Architectural	1380	1730	2040	2120	
Theatre	1580	1940	2230	2280	

7 - DMX channels and functions

Your RADIUS515S projector features 5 DMX modes:

The following chart indicates the DMX values and functions of each mode.

	Modes / Channels					
1 CH	2CH	10CH	22CH	26CH	DMX Values	Functions and effects
		1	1	1	Main dimmer	
		'	'	_ '	000 - 255	Dimmer from 0 to 100%
					Shutter et Strobe	
					000 - 007	LEDs off
					008 - 014	No function, LEDs on
					015 - 054	Slow to fast strobe
					055 - 061	No function, LEDs on
					062 - 101	Slow to fast pulse effect
		2	2	2	102 - 108	No function, LEDs on
					109 - 148	Slow to fast random strobe
					149 - 155	No function, LEDs on
					156 - 195	Slow to fast pulse effect on each LED in random strobe mode
					196 - 202	No function, LEDs on
					203 - 242	Random strobe mode on each LED
					243 - 255	No function, LEDs on
		3			All Red LEDs	
					000 - 255	000 : Black out - 255 : red 100%
					All Green LEDs	
		4			000 - 255	000 : Black out - 255 : green 100%
		5			All Blue LEDs	
		5			000 - 255	000 : Black out - 255 : blue 100%
	6		All White LEDs			
		0			000 - 255	000 : Black out - 255 : white 100%
				3	Colour macros	
					000 - 007	No function
					008 - 039	Red to Yellow sequence
					040 - 071	Yellow to Green sequence
		7			072 - 103	Green to Cyan sequence
		′			104 - 135	Cyan to Blue sequence
					136 - 167	Blue to Magenta sequence
					168 - 199	Magenta to Red sequence
					200 - 231	Red to White sequence
					232 - 255	Slow to fast Rainbow sequence
					Colour presets an	
					000-010	No function
					011-018	Programme 1 with auto colours
					019-026	Programme 2 with auto colours
					027-034	Programme 3 with auto colours
					035-042	Programme 4 with auto colours
		8		4	043-050	Programme 5 with auto colours
			8	4	051-058	Programme 6 with auto colours
					059-066	Programme 7 with auto colours
					067-074	Programme 8 with auto colours
					075-082	Programme 9 with auto colours
					083-090	Programme 10 with auto colours
					091-098	Programme 11 with auto colours
					099-106	Programme 12 with auto colours

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				107-114	Programme 13 with auto colours
				115-122	Programme 14 with auto colours
				123-130	Programme 15 with auto colours
			131-138	Programme 1 with user colours	
				139-146	Programme 2 with user colours
				147-154	Programme 3 with user colours
				155-162	Programme 4 with user colours
	8		4	163-170	Programme 5 with user colours
	(conti-		(conti- nua-	171-178	Programme 6 with user colours
	nua-		tion)	179-186	Programme 7 with user colours
	tion)		1011)	187-194	Programme 8 with user colours
				195-202	Programme 9 with user colours
				203-210	Programme 10 with user colours
				211-218	Programme 11 with user colours
				219-226	Programme 12 with user colours
				227-234	Programme 13 with user colours
				235-242	Programme 14 with user colours
]		243-255	Programme 15 with user colours
			Sequences speed		
			6	000 - 120	Clockwise increasing speed
2	9			121 - 125	Stop
				126 - 246	Counterclockwise increasing speed
				247 - 255	Music-sensitive mode
	10			Crossfade speed	,
ļ	10			000 - 255	No crossfade to slow crossfade
		3	7	Red LED 1	,
		4 8 5 9		000 - 255	000 : Black out - 255 : red 100%
			8	Green LED 1	,
				000 - 255	000 : Black out - 255 : green 100%
			5 9	Blue LED 1	,
				000 - 255	000 : Black out - 255 : blue 100%
			White LED 1	l l	
		6	l 10	000 - 255	000 : Black out - 255 : white 100%

		19 23		Red LED 5	
		19	23	000 - 255	000 : Black out - 255 : red 100%
		00 04		Green LED 5	
	20	20) 24	000 - 255	000 : Black out - 255 : green 100%
		21 25	25	Blue LED 5	
			25	000 - 255	000 : Black out - 255 : blue 100%
		22 26	White LED 5		
			000 - 255	000 : Black out - 255 : white 100%	

	1			
			Preset colours and	·
			000 - 009	No function
			010 - 012	Yellow
			013 - 015	Magenta
			016 - 018	Cyan
			019 - 021	Metal Blue
			022 - 024	Orange
			025 - 027	Pink
			028 - 030	Red
			031 - 033	Green
			034 - 036	Blue
			037 - 039	White
			040 - 045	Rainbow effect 1
			046 - 051	Rainbow effect 2
			052 - 057	Rainbow effect 3
			058 - 063	Rainbow effect 4
			064 - 069	Rainbow effect 5
			070 - 075	Rainbow effect 6
			076 - 081	Rainbow effect 7
			082 - 087	Rainbow effect 8
			088 - 093	Rainbow effect 9
			094 - 099	Rainbow effect 10
			100 - 105	Rainbow effect 11
1	1		106 - 111	Rainbow effect 12
			112 - 117	Rainbow effect 13
			118 - 124	Rainbow effect 14
			125 - 129	Rainbow effect 15
			130 - 135	Rainbow effect 16
			136 - 141	Rainbow effect 17
			142 - 147	Rainbow effect 18
			148 - 153	Rainbow effect 19
			154 - 159	Programme 1 with auto colours
			160 - 165	Programme 2 with auto colours
			166 - 171	Programme 3 with auto colours
			172 - 177	Programme 4 with auto colours
			178 - 183	Programme 5 with auto colours
			184 - 189	Programme 6 with auto colours
			190 - 197	Programme 7 with auto colours
			198 - 201	Programme 8 with auto colours
			202 - 207	Programme 9 with auto colours
			208 -213	Programme 10 with auto colours
			214 - 219	Programme 11 with auto colours
			220 - 225	Programme 12 with auto colours
			226 - 231	Programme 13 with auto colours
			232 - 237	Programme 14 with auto colours
			238 - 243	Programme 15 with auto colours
			244 - 255	Automatic programs 1 to 15 with auto colours

8 - Dimensions

