

ROBIN LEDBeam 150 FW RGBA ROBIN LEDBeam 150 FWQ RGBA

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FOR YOUR OWN SAFETY, PLEASE READ THIS USER MANUAL CAREFULLY BEFORE POWERING OR INSTALLING YOUR ROBIN LEDBeam 150 FW !

Save it for future reference.

This device has left our premises in absolutely perfect condition. In order to maintain this condition and to ensure a safe operation, it is absolutely necessary for the user to follow the safety instructions and warning notes written in this manual.

The manufacturer will not accept liability for any resulting damages caused by the non-observance of this manual or any unauthorized modification to the device.

Please consider that damages caused by manual modifications to the device are not subject to warranty.

The ROBIN LEDBeam 150 FW was designed for indoor use and it is intended for professional application only. It is not for household use.

1. Safety instructions

DANGEROUS VOLTAGE CONSTITUTING A RISK OF ELECTRIC SHOCK IS PRESENT WITHIN THIS UNIT!

Make sure that the available voltage is not higher than stated on the rear panel of the fixture. This fixture should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of power supplied, consult your authorized distributor or local power company.

Always disconnect the fixture from AC power before cleaning, removing or installing any part of the fixture.

The power plug has to be accessible after installing the fixture. Do not overload wall outlets and extension cords as this can result in fire or electric shock.

Do not allow anything to rest on the power cord. Do not locate this fixture where the cord may be damaged by persons walking on it.

Make sure that the power cord is never crimped or damaged by sharp edges. Check the fixture and the power cord from time to time.

Refer servicing to qualified service personnel.

This fixture falls under protection class I. Therefore this fixture has to be connected to a mains socket outlet with a protective earthing connection.

Do not connect this fixture to a dimmer pack.

LED light emission. Risk of eye injury. Do not look into the beam at short distance of the of the product. Do not view the light output with optical instruments or any device that may

conncentrate the beam.

The light source contains blue LEDs.

If the fixture has been exposed to drastic temperature fluctuation (e.g. after transportation), do not switch it on immediately. The arising condensation water might damage your device. Leave the device switched off until it has reached room temperature.

Avoid brute force when installing or operating the fixture.

This fixture was designed for indoor use only, do not expose this unit to rain or use near water.

When choosing the installation spot, please make sure that the fixture is not exposed to extreme heat, moisture or dust.

Do not block the lens array with any object when the fixture is under operation.

The cooling openings in head and base of the fixture should never be covered with cloth or other materials, and never must be blocked.

This fixture should not be placed in a built-in installation unless proper ventilation is provided.

Only operate the fixture after having checked that the housing is firmly closed and all screws are tightly fastened.

Always use a secondary safety wire for overhead installation of the fixture.

Make sure that the area below the installation place is blocked when rigging, derigging or servicing the fixture.

The fixture becomes hot during operation. Allow the fixture to cool approximately 15 minutes prior to manipulate with it.

To avoid damage of an internal optical system of the fixture, never let the sunlight (or other light source) lights directly to the lens array, even when the fixture is not working

Operate the fixture only after having familiarized with its functions. Do not permit operation by persons not qualified for operating the fixture. Most damages are the result of unprofessional operation!

Please use the original packaging if the fixture is to be transported.

Please consider that unauthorized modifications on the fixture are forbidden due to safety reasons!

If this device will be operated in any way different to the one described in this manual, the product may suffer damages and the guarantee becomes void. Furthermore, any other operation may lead to dangers like short-circuit, burns, electric shock, crash etc.

2. Fixture exterior view





- **1** Lens array **2** Yoke
- 3 Mains IN
- 4 Attachment point for a safety wire
- 5 Mains OUT
- 6 Control panel
- 7 DMX IN 8 - DMX OUT
- 9 Base
- **10** Slots for mounting bracket omega CL



Fixtures must be installed by a qualified electrician in accordance with all national and local electrical and construction codes and regulations.

3.1 Connection to the mains

For protection from electric shock, the fixture must be earthed!

The ROBIN LEDBeam 150 FW is equipped with auto-switching power supply that automatically adjusts to any 50-60Hz AC power source from 100-240 Volts.

If you install a cord cap on the power cable to allow connection to power outlets, install a grounding-type (earthed) plug, following the plug manufacturer's instructions.

If you have any doubts about proper installation, consult a qualified electrician.

Core (EU)	Core (US)	Connection	Plug Terminal Marking
Brown	Black	Live	L
Light blue	White	Neutral	N
Yellow/Green	Green	Earth	

The device falls under class one and must be earthed (grounded)!

Design of the ROBIN LEDBeam 150 FW allows to connect several fixtures to AC mains power in one interconnected daisy chain using power input and throughput connectors. Needed daisy chain cords are stated in the chapter "Technical specifications "

The max. number of connected fixtures depends on the AC mains power voltage: CE: ETL:

- 15 fixtures at power supply = 230V
- 13 fixtures at power supply = 208V

7 fixtures at power supply = 120V

9 fixtures at power supply = 230V 8 fixtures at power supply = 208V 4 fixtures at power supply = 120V

Actual numbers of fixtures may differ from values stated above as you have to take into account the length of supply cables, circuit breaker etc. at projecting of the fixtures installation Do not overload the supply line and the connecting leads.

Do not overload the supply line and the connecting leads.



Wiring and connection work must be carried out by qualified staff!

3.2 Rigging the fixture

The installation of the fixture has to be built and constructed in a way that it can hold 10 times the weight for 1 hour without any harming deformation.

The installation must always be secured with a secondary safety attachment, e.g. an appropriate catch net. This secondary safety attachment must be constructed in a way that no part of the installation can fall down if the main attachment fails.

When rigging, derigging or servicing the fixture staying in the area below the installation place, on bridges, under high working places and other endangered areas is forbidden.

The operator has to make sure that safety-relating and machine-technical installations are approved by an expert before taking into operation for the first time and after changes before taking into operation another time.

The operator has to make sure that safety-relating and machine-technical installations are approved by an expert after every four year in the course of an acceptance test.

The operator has to make sure that safety-relating and machine-technical installations are approved by a skilled person once a year.

The fixture should be installed outside areas where persons may walk by or be seated.

IMPORTANT! OVERHEAD RIGGING REQUIRES EXTENSIVE EXPERIENCE, including (but not limited to) calculating working load limits, installation material being used, and periodic safety inspection of all installation material and the projector. If you lack these qualifications, do not attempt the installation yourself, but instead use a professional structural rigger. Improper installation can result in bodily injury or damage to property. The fixture has to be installed out of the reach of people.

If the fixture shall be lowered from the ceiling or high joists, professional trussing systems have to be used. The fixture must never be fixed swinging freely in the room.

Caution: Fixture may cause severe injuries when crashing down! If you have doubts concerning the safety of a possible installation, do not install the moving head!

Before rigging make sure that the installation area can hold a minimum point load of 10 times the fixture's weight.

When installing the device, make sure there is no highly inflammable material (decoration articles, etc.) in a distance of min. 0.4 m.

CAUTION!

Use an appropriate clamp to rig the fixture on the truss. Follow the instructions mentioned at the bottom of the base. Make sure that the device is fixed properly! Ensure that the structure (truss) to which you are attaching the fixtures is secure.

The fixture can be placed directly on the stage floor or rigged on a truss without altering its operation characteristics .

For securing the fixture to the truss, install a safety wire which can hold at least 10 times the weight of the fixture. Use only the safety wire with a snap hook with screw lock gate. Fasten the safety cable in the attachment point and around the truss as shown on the picture below.



When installing fixtures side-by-side, avoid illuminating one fixture with another!

3.3 Eggcrate installation



Screw the eggcrate (1) on the lens array module via the three screws (2). $$\mathbf{2}$$



3.4 DMX-512 connection

The fixture is equipped with 5-pin XLR sockets for DMX input and output. Only use a shielded twisted-pair cable designed for RS-485 and 5-pin XLR-plugs and connectors in order to connect the controller with the fixture or one fixture with another.

DMX output XLR socket:



DMX input XLR plug:



If you are using the standard DMX controllers, you can connect the DMX output of the controller directly with the DMX input of the first fixture in the DMX-chain. If you wish to connect DMX-controllers with other XLR-outputs, you need to use adapter-cables.

Building a serial DMX-chain:

Connect the DMX-output of the first fixture in the DMX-chain with the DMX-input of the next fixture. Always connect one output with the input of the next fixture until all fixtures are connected. Up to 32 fixtures can be interconnected.

Caution: At the last fixture, the DMX-cable has to be terminated with a terminator. Solder a 120 Ω resistor between Signal (–) and Signal (+) into a 5-pin XLR-plug and plug it in the DMX-output of the last fixture.



3.5. Wireless DMX operation

The external ROBE Wireless CRMX Dongle allows receiving wireless DMX. This device is equipped with the Lumen Radio CRMX module and antenna for receiving DMX signal. CRMX module operates on the 2.4 GHz band.



Push in the 5-pin XLR plug (1) into 5-pin XLR socket (4) and simultaneously locating pin (2) into hole (5) in the fixture. In this way the wireless DMX module is connected with the fixture. NOTE: when you disconnect the DMX wireless module from fixture, press and hold lock (5) during getting the wireless module out.

To link the fixture with DMX transmitter.

The fixture can be only linked with the transmitter by running the link procedure at DMX transmitter . After linking, the level of DMX signal (0-100 %) is displayed in the menu item "Stat" (Special -->Vireless -->Stat).

To unlink the fixture from DMX transmitter.

The fixture can be unlinked from receiver via the menu item "Unlink" (Special-->Vireless -->Unlink.).

4. Control menu map

Default settings=Bold print

Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	Level 7
DMXA	Set DMXA	001-512				
	DMX Pres	Mode 1				
		Mode 2				
		1				
Info	POn Time	Total				
		Reset				
	DMX In	Pan	0-255			
		:				
		Dimm F	0-255			
	Hea Temp	Current				
		Highest				
		High Res				
	Sw Ver	IC-1				
		IC-2				
		IC-3				
		ĺ				
Pers		ĺ				
	DMX Pres	Mode 1				
		Mode 2				
	Pan Rev	On, Off				
	Tilt Rev	On, Off				
	P/T Mode	Speed				
		Time				
	P/T Feed	On, Off				
	Display	Turn				
		On/Off T	On, Off			
		Contrast	0-100%			
		Backlight	0-100%			
	BLC DMC	On, Off				
	BLC P/T	On, Off				
	Mic Sens	0 10 19				
	Fans	Auto, High,Quiet				
	C Mix M	RGBA, CMY				
	White P	On, Off				
	Dimmer C	Square, Linear				
	LED Freq	Stand				
	ļ	High	<u> </u>			
	LED Fadj	-06,-050005, 06	<u> </u>			
	Temp Uni	°C, °F				
	I Ef Pos	Pan	L	ļ		
		:				
		Dim F				
		Store				
	Defaults					
	ļ					
Manual	Pan	0-255				
	:					
	Dimm F	0-255				
Test Prg	Static	Pan	0-255			
	ļ	Tilt	0-255			
	ļ	Run		ļ		
	Dynamic					

Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	Level 7
Sta Alone	Music T	On, Off				
	Auto Run	Off				
		Test				
		Prog 1				
		Prog 2				
		Prog 3				
	Pr Play	Test Prg				
		Prog 1				
		Prog 2				
		Prog 3				
	Pr Edit	Prog 1	Step 1	Pan		
		Prog 2	:	:	i	
		Prog 3	Step 40	F.Tim	0-25.5	
				S.Tim	0-25.5	
				COPY		
				Prg End	1-40	
Reset						
Special	RDM Low					
	RDM Hight					
	Wireless	Stat				
		Unlink				
	Adjust	DMX Val	Pan	0-255		
			:			
			Dimm F	0-255		
		Clalib	Cal Mech	Pan C	0-255	
				Tilt C	0-255	
				Zoom C	0-255	
				Store		
			Cal Col	Red C	0-255	
	1			Gre C	0-255	
	1			Blu C	0-255	
	1			Amb. C	0-255	
	1		1	Store	1	
			Cal Load			
	Sw Upd	On, Off			1	

5. Control menu

The ROBIN LEDBeam 150 FW is equipped with 2-row LCD display which allows to set the fixture's behaviour according to your needs, obtain information on its operation, test its various parts and lastly program it, if it has to be used in a stand-alone mode.

Control panel:

[ESCAPE] button used to leave the menu without saving changes.

[NEXT], [PREV] buttons for moving between menu items and for value adjusting.



[ENTER] button used to enter the selected menu (menu item) and to confirm adjusted value.

After switching the fixture on, display shows current DMX address.

5.1 Addressing (DMXA)

<u>Set DMXA-</u> Use this menu item to set the DMX start address of the fixture, which is defined as the first channel from which the ROBIN LEDBeam 150 FW will respond to the controller.

If you set, for example, the address 23, the ROBIN LEDBeam 150 FW will use channels 23 - 44 for control (if Mode 1 is selected).

Please, be sure that you do not have any overlapping channels in order to control each ROBIN LEDBeam 150 FW correctly and independently from any other fixture on the DMX data link.

If there is no data received at the DMX input, the display will start to flash "0001" with actually stored DMX address.

DMX Pres - DMX preset. Use the menu to select desired channel mode.

Mode 1 - 22 control channels (default)

Mode 2 - 16 control channels

5.2 Fixture information (Info)

POn Time - **Power on time**. Select this menu to read the number of fixture operation hours.

Total - The item shows the total number of the operation hours since

the ROBIN LEDBeam 150 FW has been fabricated.

<u>Reset</u> - The item shows the number of the operation hours that the

ROBIN LEDBeam 150 FW has been powered on since the counter was last reset.

In order to reset this counter to 0, press and hold both [NEXT] and [PREV] buttons and the [Enter] button at the same time.

DMX In - **DMX readout.** The menu is used to read DMX values of each channel received by the fixture.

Hea Temp - Hhead Temperature. The menu shows temperature on the LED module.

<u>Current</u> - A current temperature of the LED module.

<u>Highest</u> - A maximum temperature of the the LED module since the fixture has been fabricated.

<u>High Res</u> - A maximum temperature of the the LED module since the counter was last reset.

In order to reset this counter, press and hold both [NEXT] and [PREV] buttons and the [Enter] button at the same time.

<u>Sw Ver</u> - Software versions. Select this item to read the software version of the fixture modules.

<u>IC-1</u> - A pan/Tilt processor.

IC-2 - A display processor.

IC-3 - LED control processor.

5.3 Personality (Pers)

DMX Pres - **DMX preset**. Use the menu to select desired channel mode.

Mode 1 - 22 control channels Mode 2 - 16 control channels

Pan Rev - **Pan reverse**. The item allows to invert pan movement.

Tilt Rev - Tilt reverse. The item allows to invert tilt movement.

 P/T Mode
 - Pan and Tilt movement mode. Use this menu to set mode of the pan/tilt movement.

 Speed
 - Both Pan and tilt will move with the same speed as adjusted at the channel 5 "Pan/Tilt speed, Pan/Tilt time".

 Time
 - The pan and tilt will move with different speeds and they will come at the same time to the end point of their tracks (pan and tilt use their optimal speeds). Time of the pan/tilt movement (25.5 sec. max.) is set by the channel "Pan/Tilt speed, Pan/Tilt time".

<u>P/T Feed</u> - Pan and Tilt Feedback. The menu item allows to return the mowing head to the required pan/tilt position after changing the position by an external force if this option is set on. Note. The Pan/Tilt Feedback should be permanent On, the option Off is not suitable for standard operation and

the head of the fixture can be damaged!

Display - Display adjusting. This menu allows you to adjust the display behaviour.

<u>Turn</u> - This function turns the display by 180°.

On/Off T - This function allows you to keep the display permanent on or turn it off two minutes after last pressing any button on the control panel.
 Contrast - Use this function to adjust contrast of the display (0-100%).
 Backlight - Use this function to adjust backlight of the display (0-100%).

<u>BLC DMC</u> - **Blackout during movement correction**. Set this option on if you wish to close light output during the time when the head goes to its correct position, which has been changed by an external force.

<u>BLC P/T</u> - **Active blackout**. The menu item allows to close light output while the pan/tilt DMX values are changing.

<u>C Mix M</u> - Colour mixing mode. This item allows switching into RGBA or CMY mode. In the CMY mode, the Amber(8bit)/Amber (16) bit channels are not active.

<u>White P</u> - White Point 8000K. If the function is on, the CTC channel allows to set desired white in range of 8000K-2700K

(0 DMX=8000K, 255 DMX=2700K). Necessary condition is , that RGBA channels have to be set at the same DMX values, e.g. 255.

If this function is off, the range of whites is not uniform and may be different for each fixture.

<u>Mic Sens</u> - Microfon sensitivity. Enter the menu if you want to adjust the microphone sensitivity (1-max., 19-min.).

Fans - **Fans mode**. Use the menu to set the fixture fans to the max. power ("**High**") ,auto-control mode ("**Auto**") and quiet mode ("**Quiet**").

<u>Dimmer C</u> - **Dimmer curve**. Use the menu to select desired dimmer curve.

<u>Linear</u> - a linear curve.

Square - a square law curve.

LED Freq - **LEDs frequency setup**. The function allows you to set the PWM (Pulse Width Modulation) output frequency of LEDs to Standard or High.

<u>Stand</u> - a standard frequency (300Hz), deffault setting. <u>High</u> - a high frequency (600Hz)

LED Fadj - **LEDs frequency fine adjustment**. The function allows you to change the selected PWM output frequency of LEDs in 6 levels up and down around the selected frequency in the menu "LED Freq".

-06...-01 - Frequence levels 1-6 under selected frequency. 00 - Selected frequency (Standard or High) 01...06 - Frequence levels 1-6 above selected frequency.

Temp Uni - Temperature unit. Use the menu item to change temperature unit from °C to °F.

<u>I Ef Pos</u> - Init effect positions. Use the menu to set all effects to the desired positions at which they will stay after switching the fixture on without DMX signal connected.

Defaults - The menu item allows to set all fixture parameters to the default (factory) values.

5.4 Manual Control (Manual)

Use the menu to control all fixture channels by means of the control panel.

5.5 Test program (Test Prg)

Use this menu to to run a special demo-test sequences without an external controller, which will show you some possibilities of using ROBIN LEDBeam 150 FW.

<u>Static</u> - **Static mode**. This mode is suitable for projections on the wall, ceiling or ground without any head movement.

Dynamic - **Dynamic mode.** This mode uses all ROBIN LEDBeam 150 FW functions including pan/tilt movement and therefore is good for a complete introduction of the fixture.

5.6 Stand-alone (St Alone)

<u>Music T</u> - Music trigger. Select this function to enable the sound control of the running program via the built-in microphone.

<u>Auto Run</u> - **Presetting playback**. This function allows you to select the program which will be played in the stand-alone mode after switching the fixture on. Selected program will be played continuously in a loop.

<u>Off</u> - The option disables "Auto Run" function.

Test - The option will start built-in test program.

Prog 1 - The option will start user-created program 1

 $\underline{\textbf{Prog 2}}$ - The option will start user-created program 2

 $\underline{\textbf{Prog 3}}$ - The option will start user-created program 3

<u>**Pr Play</u></u> - Playing program**. Select this menu to run a user-created program in a loop.</u>

<u>Test Prg</u> - The option runs built-in test program.

<u>Prog 1</u> - The option runs user-created program 1

<u>Prog 2</u> - The option runs user-created program 2

Prog 3 - The option runs user-created program 3

Select the program you wish and press [ENTER]. The selected program starts running. By Pressing [ENTER] again, program pauses running.

Pr Edit - **Editing program**. Select this menu to edit or create the program. The ROBIN LEDBeam 150 FW has one built-in program and one user-editable program up to 40 steps. Each program step has a step time, during which effects last in the current step and a fade time, during which effects move to new positions. To edit program:

1. Press [NEXT] or [PREV] to select the menu " Pr Edit" and press [ENTER].

2. Press [NEXT] or [PREV] to select the desired program step and press [ENTER] button.

3. Press [NEXT] or [PREV] to select the desired item and press [ENTER] button. Now you can edit by [NEXT] or [PREV] buttons the DMX value (0-255) for selected item:

Prg End.	a total number of the program steps (value 1-40). This value you should be set before
	starting of programming (e.g. if you want to create program with the 10 steps,
	set Prg End=10).
PAn	a coarse pan movement
PAn F	a fine pan movement
Tilt	a coarse tilt movement

- Tilt a coarse tilt moveme Tilt F a fine tilt movement
- P/T Sp a pan/tilt speed
- Powr power/special functions
- Virt C a virtual colour wheel

Red	a red colour coarse
Red F	a red colour fine
Green	a green colour coarse
Green F	a green colour fine
Blue	a blue colour coarse
Blue F	a blue colour fine
Amber	an amber colour
Amber F	an amber colour fine
CTC	a colour temperature correction
C Mix C	a colour mix control
Zoom	a zoom function
Zoom F	a zoom function fine
Stro	a strobe/shutter function
Dimm	a dimmer function coarse
Dim F	a dimmer function fine
F.Tim	a fade time (0-25.5 sec)
S.Tim	a step time (0-25.5 sec)
COPY	copying the current prog. step to
	the next prog. step

4. Press [ENTER] button to confirm adjusted value .

5. Press [ESCAPE] button, select next prog. step, press [ENTER] button and repeat steps 3 - 5).

5.7 Reset

This option enables the ROBIN LEDBeam 150 FW to index all effects and return to their standard positions.

5.8 Special functions (Special)

<u>RDM Low</u> - This menu item shows the first part of the RDM identification code.

RDM High - This menu item shows the second part of the RDM identification code.

<u>Wireless</u> - Wireless DMX information. The menu allows to read some information about Wireless DMX operation

Stat - Wireless status. Use the menu to read wireless DMX status. **Unlink** - use this item to unlink fixture from wireless DMX.

Adjust - Adjustment. The menu allows the fine adjustment of effects.

DMX Val- DMX values. Use the menu to set DMX values of fixture's channels.

Calib - calibration of white colour.

<u>Cal Mech</u> - Use this menu to calibrate pan/tilt/zoom position.

<u>Cal Col</u> - Use this menu to set white colour 5600K.

Calibration of the pan/tilt/zoom via the control board

1. Disconnect DMX controller from the fixture and enter the "Cal Mech" menu.

2. Use the [PREV] and [NEXT] to find "Pan C" and press [ENTER].

3. Set desired value and save it by pressing [ENTER].

4. Repeat steps 2 and 3 for "Tilt C" and "Zoom C".

5. After calibrating both effects, find item "Store" and press [ENTER]. to save all adjusted values and reset the fixture.

Calibration of the white 5600K via the control board

1. Disconnect DMX controller from the fixture , set the shutter, dimmer and RGBA channels at 255 DMX, zoom at 128 DMX and the CTC channel at DMX=64 (white 5600K). Aim the light beam on the lux meter (e.g. Minolta CL-500 A Chroma meter) which is placed about 5 m from the fixture.

2. Set the menu items Colour Mix Mode to RGBA and "White Point 8000K to On (Pers-> C Mix M -> RGBA, Pers-> White P -> On).

3. Enter the menu "Cal Col".

4. By means of the "Red C, Gre C, Blu C and Amb C" items adjust the 5600K colour temperature as exactly as possible (Δu'v'= 0).

5. After adjusting 5600K colour temperature, select item Store and press the [ENTER] button to save all adjusted values .

Note: you can also use DMX controler for both calibrations stated above, calibration protocol is the following:

Effect	Mode 1	Mode 2
Pan-fine adjustment	channel 23	channel 17
Tilt - fine adjustment	channel 24	channel 18
Zoom -fine adjustment	channel 25	channel 19
Red - red saturation	channel 26	channel 20
Green- green saturation	channel 27	channel 21
Blue - blue saturation	channel 28	channel 22
Amber - amber saturation	channel 29	channel 23

Cal Load - Loads default (factory) calibration.

<u>Sw Upd</u> - Software update. The menu item allows you to update software in the fixture.

The following items are required in order to update software:

- PC running Windows or Linux or macOS

- DSU file

- Flash cable RS232/DMX, P/N13050624 (if you want to use a serial port of PC)

- Robe Universal Interface or Robe Universal interface WTX (if you want to use an USB port of PC)

After the software updating the fixture will be set to default (factory) values.

To update software in the fixture:

1. DSU file is available from Robe web site at WWW.robe.cz.

File with extension zip is intended for Windows (used and tested from XP to W10 on 32/64bit systems). File with extension tbz is intended for Linux (used and tested on Debian and Ubuntu 32/64bit). File with extension dmg is intended for macOS (used and tested on OSX up to Sierra) XQuartz required, install it from https://www.xquartz.org/

Save the download file to a folder on your computer.

In case that you use windows, extract files in the zip file (e.g. DSU_RobinLedBeam150_18041738.zip)

- 2. Disconnect the fixture from DMX controller.
- 3. If you use the flash cable RS232/DMX, connect a serial port of your computer with DMX input of the fixture by means of the cable.

If you use the Robe Universal Interface, connect a USB port of your computer with the Robe Universal Interface by means of the USB cable and DMX input of the fixture with the DMX output of the Robe Universal Interface via a DMX cable.

4. Switch the fixture to the update mode (Special --> SW Upd).

Note: If you do not want to continue in the software update, you have to switch off and on the fixture to escape from the updating mode.

We recommend to cancel all running programs on your computer before starting the software update.

5. Double-click the software uploader file (e.g. DSU_RobinLedBeam150_18041738.exe) in



6. Select correct "COM " number if you use a Flash cable RS232/DMX or select "Robe Universal Interface 1 " if you use the Robe Universal Interface/Robe Universal Interface WTX and then click on the "Connect" button.

7. If the connection is OK, click the "Start Uploading" button to start software uploading. It will take several minutes to perform software update.

If the option "Incremental Update" is not checked, all processors will be updated (including processors with the same software version).

If you wish to update only processors with new version of software, check the "Incremental Update box".

Avoid interrupting the process. Update status is being displayed in the "Info Box" window.

When the update is finished, the line with the text "Fixture is successfully updated" will appear in this window.

In case upload process is interrupted (e.g. power loss), the fixture stays in "Updating mode" and you will have to repeat the software update again.

Another way, how to update software in the fixtures (especially large installation of fixtures) is to use the ROBE Uploader. It is a software for automatized software update of Robe fixtures. It takes advantage of RDM support).

For more information please see https://www.robe.cz/robe-uploader/.

6. RDM

This fixture supports RDM operation. RDM (Remote Device Management) is a bi-directional communications protocol for use in DMX512 control systems, it is the new open standard for DMX512 device configuration and status monitoring.

The RDM protocol allows data packets to be inserted into a DMX512 data stream without adversely affecting existing non-RDM equipment. By using a special "Start Code," and by complying with the timing specifications for DMX512, the RDM protocol allows a console or dedicated RDM controller to send commands to and receive messages from specific moving lights.

RDM allows explicit commands to be sent to a device and responses to be received from it.

The list of commands for ROBIN LEDBeam 150 FW is the following.

Parameter ID	Discovery command	SET command	GET command
DISC_UNIQUE_BRANCH	*		
DISC_MUTE	*		
DISC_UN_MUTE	*		
DEVICE_INFO			*
SUPPORTED_PARAMETERS			*
SOFTWARE_VERSION_LABEL			*
DMX_START_ADDRESS		*	*
IDENTIFY_DEVICE		*	*
DEVICE_MODEL_DESCRIPTION			*
MANUFACTURER_LABEL			*
DEVICE_LABEL		*	*
SENSOR_DEFINITION			*
SENSOR_VALUE			*
DISPLAY_INVERT		*	*
DISPLAY_LEVEL		*	*
PAN_INVERT		*	*
TILT_INVERT		*	*
DEVICE_RESET		*	
DMX_PERSONALITY		*	*
DMX_PERSONALITY_DESCRIPTION			*
STATUS_MESSAGES			*
STATUS_ID_DESCRIPTION			*
DEVICE_HOURS			*
PARAMETER_DESCRIPTION			*

ROBE_DMX_INPUT	*	*
ROBE_WIRELESS_UNLINK	*	

7. Error and information messages

Short Err

The message informs you that short circuit has occured on the LED PCB.

Tilt Err

This message will appear after the reset of the fixture if the head's magnetic-indexing circuit malfunctions (sensor failed or magnet is missing) or the stepping motor is defective or its driving IC on the PCB. The head is not located in the default position after the reset.

8. Technical Specifications

Electrical

Power supply:	electronic auto-ranging.
Input voltage range:	supply 100-240V, 50-60Hz
Fuse:	T 3.15A

Max. power consumption220W (power factor=0.97, I=0.98A at 230V) Mains input: CE - max. 16A ETL - max. 10A Mains output: CE - max. 15A ETL - max. 9A

Optic

Light source: 7 x high power RGBA multichip LEDs Min LED life expectancy: 20.000 hours RGBA/CMY colour mixing Variable CTO 2700K-8000K Halogen lamp effect at whites 2700K and 3200K

Virtual colour wheel

66 preset colours Rainbow effect with with variable speed

Zoom range

3.8°-60°

Strobe

Strobe effect with variable speed (0.3 - 20Hz)
Random strobe pulse-effect with variable speed
Opening/closing pulse effect with variable speed

Dimmer

Pan/Tilt

Max. pan movement range: 450°
Max. tilt movement range: 228°
16 bit movement resolution
Automatic Pan/Tilt position correction
Remotely controllable speed of pan/tilt movement for easy programming

Control

2-row LCD display & 4 buttons
Readout fixture usage, receiving DMX values, temperatures, etc
Built-in analyzer for easy fault finding, error messages
Built-in demo sequences
Silent fans cooling,
Stand-alone operation
3 user editable programs, each up to 40 steps
Supported protocols: USITT DMX 512, RDM,
Support of RDM (Remote Device Management)
2 DMX modes (22, 16 control channels)

External Wireless DMX/RDM module (optional)

Compliance with USITT DMX-512 (1986 & 1990) and 512-A Full DMX fidelity and frame integrity Auto sensing of DMX frame rate and frame size <5ms DMX latency Operational frequency range of 2402-2480 MHz Producer: LumenRadio

Connection

DMX data in/out: Locking 5-pin XLR AC power input: Chassis connector Neutrik PowerCon, A-type, NAC3MPA AC power output: Chassis connector Neutrik PowerCon, B-type, NAC3MPB

Rigging

Mounting points: pair of 1/4-turn locks Mounting horizontally or vertically via Omega bracket

Temperatures

Maximum ambient temperature : 45° C Maximum housing temperature : 80° C

Distances

Min. distance from flammable surfaces: 0.4 m Min. distance of illuminated objects: 0.8 m

Total heat dissipation

750 BTU/h (calculated)

Weight:

5.7 kg

Dimensions (mm)













Accessories

1x Mounting bracket Omega CL assembled (P/N 99010420)

Optional accessories

(P/N 10980127) ROBE Wireless CRMX Dongle
(P/N 1305 1731) Mains Cable PowerCon In/open ended, 2m
(P/N 1305 1724) Mains Cable PowerCon In/Schuko, 2m
(P/N 1305 1725) Mains Cable PowerCon In/CEE 16A, 2m
(P/N 1305 1726) Mains Cable PowerCon In/US, 2m
(P/N 1305 1727) Daisy Chain PowerCon In/Out, EU, 2m
(P/N 1305 1728) Daisy Chain PowerCon In/Out, US, 2m
(P/N 10980346) EggCrate for Robin LEDBeam 150
(P/N 10980445) EggCrate for Robin LEDBeam 150, ParFect 150 white
(P/N 10980496) EggCrate for Robin LEDBeam 150 RAL9003 glossy
(P/N 17030386) Doughty Trigger Clamp
(P/N 99011963) Safety wire 35 kg

9. Maintenance and cleaning

It is absolutely essential that the fixture is kept clean and that dust, dirt and smoke-fluid residues must not build up on or within the fixture. Otherwise, the fixture's light output will be significantly reduced. Regular cleaning will not only ensure the maximum light output, but will also allow the fixture to function reliably throughout its life. A soft lint-free cloth moistened with any weak detergent solution is recommended for cleaning fixture's covers, under no circumstances should alcohol or solvents be used!

DANGER ! Disconnect from the mains before starting any maintenance and cleaning work

The interior of the fixture should be cleaned at least annually using a vacuum cleaner or compressed air. The cooling fans should be cleaned at least twice a year.

Important! Never use alcohols (ethanol, methanol, isopropyl alcohol), acetone and another aggressive solvents for cleaning the front lens array.

Recommended steps for cleaning the front lens array:

- 1. Use low-pressure compressed air to remove coarse dust from lenses.
- 2. Use distilled water with weak detergent solution and lint-free small cloth for further cleaning of lenses.
- 3. Use an antistatic, alcohol-free screen cleaner (we recommend the Lyreco Screen Cleaner) and polish lenses until they are dry.
- 4. Check the lenses are dry before reapplying power.

Note: potential foggy front lens array does not influence function of the fixture and does not subject to complaint.

More complicated maintenance and service operations are only to be carried out by authorized distributors.

9.1 Replacing fuse

1.Replace the fuse by a fuse of the same type and rating only.



3. Unscrew four screws (4) on the top chassis (5). Lay down the fixture and unscrew four screws (6) on the bottom plate (9) to push out inside module of the base.

4. Unscrew two screws (8) on the bottom plate to remove rear panel of the fixture (7).

5. Now you have access for the fuse holder (10) in the inside module of the base.

- 6. Remove the old fuse from the fuseholder.
- 7. Install the new fuse into the fuseholder.
- 8. Assemble the base of the fixture.

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10. Photometric diagrams



Distance (m)	4	5	8	12	16	20	24	28	
Red	2500/232	1600/149	625/58	278/26	156/15	100/9	70/6.5	51/4.7	
Green	6047/562	3870/360	1512/140	672/62	378/35	242/22.5	168/16	123/11.5	
Blue	1367/127	875/81	342/32	152/14	85/8	55/5	38/3.5	28/2.6	Intensity (center) Lux/Footcandles
Amber	4735/440	3030/282	1184/110	526/49	296/28	189/18	132/12	97/9	
R+G+B+A	11890/1105	7610/707	2973/276	1322/123	743/70	476/44	330/31	243/23	

Illuminance distribution



Max. Zoom



Distance (m)	4	5	8	12	16	20	24	28	
Red	66/6	42/4	16/1.5	7/0.7	4/0.4	2.6/0.2	1.8/0.2	1.3/0.1	
Green	153/14	98/9	38/3.6	17/1.6	9.6/0.9	6/0.6	4/0.4	3/0.3	
Blue	33/3	21/2	8/0.8	3.6/0.3	2/0.2	1.3/0.1	0.9/0.1	0.7/0.1	Intensity (center) Lux/Footcandles
Amber	122/11	78/7	31/2.8	14/1.3	8/0.7	5/0.5	3.4/0.3	2.5/0.2	
R+G+B+A	270/25	173/16	68/6	30/2.8	17/1.6	11/1	8/0.7	6/0.5	

Illuminance distribution



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Robin LEDBeam 150 RGBA/Robin LEDBeam 150 FW RGBA - DMX protocol					
		Vers	ion: 1.2 Mode 1-Standard 16-bit, Mode 2 -Reduced 8-bit		
Mode/c	hannel 2	DMX	Function	Type of	
	1	value	Pan (8 hit)	Control	
-	-	0 - 255	Pan movement by 450° (128-default)	proportional	
2	2	0-255	Pan Fine (16 hit)	ргороглопа	
2	2	0 - 255	Fine control of pap movement (0-default)	proportional	
2	2	0-255	Tilt (8 hit)	proportional	
5		0 - 255	Tilt movement by 228° (128-default)	proportional	
4	4	0 233	Tilt fine (16 hit)	proportional	
-		0 - 255	Fine control of tilt movement (0=default)	proportional	
5	5	0 200	Pan/Tilt speed . Pan/Tilt time	proportional	
		0	Standard mode (0=default)	sten	
		1	Max Speed Mode	sten	
			Pan/Tilt speed mode	зтер	
		2 - 255	Speed from may to min	nroportional	
		2 255	Pan/Tilt time mode	proportional	
		2 - 255	Time from 0.2 sec. to 25.5 sec.	nroportional	
6	6	2 255	Power/Special functions	proportional	
	0	0 -19	Reserved (0=default)		
		0 15	To activate following functions, stop in DMX value for at least 3 s		
			and shutter must be closed at least 3 sec. ("Shutter,Strobe"		
			channel 20/15 must be at range: 0-31 DMX). Corresponding menu		
			items are temporarily overriden.		
		20-24	Display ON	step	
		25-29	Display OFF	step	
		30-34	RGBA colour mixing mode	step	
		35-39	CMY colour mixing mode	step	
		40-44	Pan/Tilt speed mode	step	
		45 - 49	Pan/Tilt time mode	step	
		50 -54	Blackout while pan/tilt moving	step	
		55 -59	Disabled blackout while pan/tilt moving	step	
		60 - 64	Dimmer curve - square law	step	
		65 - 69	Dimmer curve - linear	step	
		70 - 74	Fans mode: Auto	step	
		75 - 79	Fans mode: High	step	
		80-84	White point 8000K ON	step	
		85-89	White point 8000K OFF	step	
		90-94	Fans mode: Quiet	step	
		95 -129	Reserved		
			To activate following functions, stop in DMX value for at least 3 seconds. Corresponding menu items are temporarily overriden.		
		130 - 139	Reserved		
		140 - 149	Pan/Tilt reset	step	
		150 - 159	Zoom reset	step	
		160 - 169	Reserved	step	
			Tungsten effect simulution for whites 2700K and 3200K		
		170-171	Tungsten effect simulation (750W) On	step	
		172-173	Tungsten effect simulation (1000W) On	step	

Mode/channel DMX		DMX		Type of
1	2	Value	Function	control
		174-175	Tungsten effect simulation (1200W) On	step
		176-177	Tungsten effect simulation (2000W) On	step
		178-179	Tungsten effect simulation (2500W) On	step
		180-181	Tungsten effect simulation Off	step
		182-184	Reserved	
		185	PWM output frequency of LEDS: Standard (300Hz)**	step
		186	PWM output frequency of LEDS: High (600Hz)**	step
			** You can adjust selected frequency in 6 steps Up or Down around selected frequency - see table below . Default value of PWM frequency set in the fixture is Standard.	
		187	LED Frequency (step -6)	step
		188	LED Frequency (step -5)	step
		189	LED Frequency (step -4)	step
		190	LED Frequency (step -3)	step
		191	LED Frequency (step -2)	step
		192	LED Frequency (step -1)	step
		193	LED Frequency (Standard or High)	step
		194	LED Frequency (step +1)	step
		195	LED Frequency (step +2)	step
		196	LED Frequency (step +3)	step
		197	LED Frequency (step +4)	step
		198	LED Frequency (step +5)	step
		199	LED Frequency (step +6)	step
		200 - 209	Total fixture reset	step
		210 - 218	Reserved	
			The following RoboSpot related commands are only applicable when the RoboSpot is connected:	
		219 - 220	RoboSpot enabled	step
		221 - 222	RoboSpot disabled - except handle faders and pan/tilt	step
		223 - 224	RoboSpot fully disabled	step
		225 - 255	Reserved	
7	7		Virtual colour wheel	
		0	No function (0=default)	step
		1-2	Filter 4 (Medium Bastard Amber)	step
		3-4	Filter 25 (Sunset Red)	step
		5-6	Filter 19 (Fire)	step
		/-8	Filter 26 (Bright Red)	step
		9-10	Filter 58 (Lavender)	step
		11-12	Filter 58 (Sky Blue)	step
		15-14	Filter S0 (Meedulii Filik)	step
		17 10	Filter 89 (lime Green)	step
		10.20	Filter 00 (Dark Vollow Groon)	step
		19-20	Eilter 40 (Modium Purple)	step
		22-24	Filter 52 (Light Lavender)	step
		25-24	Filter 102 (Light Amber)	step
		25-20 27-29	Filter 102 (Egnt Amber)	step
		21-20	Filter 140 (Summer Blue)	cton
		31-37	Filter 124 (Dark Green)	sten
		32-24	Filter 106 (Primary Red)	sten
		35-36	Filter 111 (Dark Pink)	step

Mode/	channel	DMX	Function	Type of
1	2	Value		control
		37-38	Filter 115 (Peacock Blue)	step
		39-40	Filter 126 (Mauve)	step
		41-42	Filter 117 (Steel Blue)	step
		43-44	Filter 118 (Light Blue)	step
		45-46	Filter 122 (Fern Green)	step
		47-48	Filter 182 (Light Red)	step
		49-50	Filter 121 (Filter Green)	step
		51-52	Filter 128 (Bright Pink)	step
		53-54	Filter 131 (Marine Blue)	step
		55-56	Filter 132 (Medium Blue)	step
		57-58	Filter 134 (Golden Amber)	step
		59-60	Filter 135 (Deep Golden Amber)	step
		61-62	Filter 136 (Pale Lavender)	step
		63-64	Filter 137 (Special Lavender)	step
		65-66	Filter 138 (Pale Green)	step
		67-68	Filter 798 (Chrysalis Pink)	step
		69-70	Filter 141 (Bright Blue)	step
		71-72	Filter 147 (Apricot)	step
		73-74	Filter 148 (Bright Rose)	step
		75-76	Filter 152 (Pale Gold)	step
		77-78	Filter 154 (Pale Rose)	step
		79-80	Filter 157 (Pink)	step
		81-82	Filter 143 (Pale Navy Blue)	step
		83-84	Filter 162 (Bastard Amber)	step
		85-86	Filter 164 (Flame Red)	step
		87-88	Filter 165 (Daylight Blue)	step
		89-90	Filter 169 (Lilac Tint)	step
		91-92	Filter 170 (Deep Lavender)	step
		93-94	Filter 172 (Lagoon Blue)	step
		95-96	Filter 194 (Surprise Pink)	step
		97-98	Filter 180 (Dark Lavender)	step
		99-100	Filter 181 (Congo Blue)	step
		101-102	Filter 197 (Alice Blue)	step
		103-104	Filter 201 (Full C.T. Blue)	step
		105-106	Filter 202 (Half C.T. Blue)	step
		107-108	Filter 203 (Quarter C.T. Blue)	step
		109-110	Filter 204 (Full C.T. Orange)	step
		111-112	Filter 219 (Fluorescent Green)	step
		113-114	Filter 206 (Quarter C.T. Orange)	step
		115-116	Filter 247 (Filter Minus Green)	step
		117-118	Filter 248 (Half Minus Green)	step
		119-120	Filter 281 (Three Quarter C.T. Blue)	step
		121-122	Filter 285 (Three Quarter C.T. Orange)	step
		123-124	Filter 352 (Glacier Blue)	step
		125-126	Filter 353 (Lighter Blue)	step
		127-128	Filter 507 (Madge)	step
		129-130	Filter 778 (Millennium Gold)	step
		131-132	Filter 793 (Vanity Fair)	step
		133-235	Raw DMX	proportional

Mode/channel		DMX		Type of
1	2	Value	Function	control
		236-245	Rainbow effect (with fade time) from slow-> fast	proportional
		246-255	Rainbow effect (without fade time) from slow-> fast	proportional
8	8		Red/Cyan (8 bit)*	
		0 - 255	Colour saturation control - coarse 0-100% (255=default)	proportional
9	*		Red/Cyan (16bit)*	_ · ·
		0 - 255	Colour saturation control - fine (255=default)	proportional
10	9		Green/Magenta (8 bit) *	
		0 - 255	Colour saturation control - coarse 0-100% (255=default)	proportional
11	*		Green/Magenta (16bit) *	
		0 - 255	Colour saturation control - fine (255=default)	proportional
12	10		Blue/Yellow (8 bit) *	
		0 - 255	Colour saturation control - coarse 0-100% (255=default)	proportional
13	*	0 200	Blue/ Yellow (16bit) *	proportional
		0 - 255	Colour saturation control - fine (255=default)	proportional
14	11	0 200	Amber (8 bit)	proportional
			If RGBA mode is selected:	
		0-255	Colour saturation control - coarse 0-100% (255=default)	proportional
		0-233	If CMV mode is selected:	ргороглопа
		0 - 255	No function	
15	*	0-255	Amber (16 hit)	
15		0 - 255	Colour saturation control - fine (255-default)	proportional
16	12	0-255		ргороглопа
10	12		If function "White Boint 8000K" is ON	
		0.255	Col temporature correction from 2000K to 2700K, for whites only	proportional
		0-235		ргороглопа
			To get colour temperatures stated above RGRA channels have to	
			be set at the same value e.g. 255DMX (0=default)	
			(To activate Tungsten effect at 2700K and 3200K, set DMX value at	
			"Power/Special functions" channel)	
			If function "White Point 8000K" is OFF	
		0-255	Colour temperature correction for from cool white to 2700K	proportional
17	13		Colour Mix control	
			Defines relation between colour channels	
			"Virtual" = Virtual Colours (Virtual Colour Wheel)	
			"Colour mix" = Colour channels (RGBA/CMY)	
		0-9	Virtual colors ("Virtual" has priority)	step
		10-19	Maximum mode (highest values have priority)	step
		20-29	Minimum mode (lowest values have priority)	step
		30-39	Multiply mode (multiply Virtual and Colour Mix)	step
		40-49	Addition mode (Virtual + Colour mix) (45=default)	step
		50-59	Subtraction mode (Virtual – Colour mix)	step
		60-69	Inverted Subtraction mode (Colour mix – Virtual)	step
		70-128	Reserved	
		129	Virtual colors (virtual has priority)	step
		130-254	Crossfade (crossfade between Virtual and Colour mix)	proportional
		255	Colour channels ("Colour mix" has priority)	step
18	14		Zoom	
		0-255	Zoom from max. to min.beam angle (128=default)	proportional
19	*		Zoom - fine	
		0-255	Fine zooming (0=default)	proportional

Mode/channel		DMX	Eurotion	Type of	
1	2	Value	Function	control	
20	15		Shutter/ strobe		
		0 - 31	Shutter closed	step	
		32 - 63	Shutter open (32=default)	step	
		64 - 95	Strobe-effect from slow to fast	proportional	
		96 - 127	Shutter open	step	
		128 - 143	Opening pulse in sequences from slow to fast	proportional	
		144 - 159	Closing pulse in sequences from fast to slow	proportional	
		160 - 191	Shutter open	step	
		192 - 223	Random strobe-effect from slow to fast	proportional	
		224 - 255	Shutter open	step	
21	16		Dimmer intensity (8 bit)		
		0 - 255	Dimmer intensity from 0% to 100% (0=default)	proportional	
22	*		Dimmer intensity - fine (16 bit)		
		0 - 255	Fine dimming (0=default)	proportional	
*Select RG	A or CMY n	nixing mode or	channel "Power/Special functions" .		
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Colour name	Red	Green	Blue	Amber
Colour name	(DMX)	(DMX)	(DMX)	(DMX)
Filter 4 (Medium Bastard Amber)	60	141	33	239
Filter 25 (Sunset Red)	255	9	2	223
Filter 19 (Fire)	255	0	0	36
Filter 26 (Bright Red)	255	0	0	0
Filter 58 (Lavender)	0	47	165	255
Filter 68 (Sky Blue)	0	250	138	45
Filter 36 (Medium Pink)	200	78	26	255
Filter 89 (Moss Green)	0	255	0	80
Filter 88 (Lime Green)	122	255	0	103
Filter 90 (Dark Yellow Green)	2	255	0	0
Filter 49 (Medium Purple)	255	0	27	0
Filter 52 (Light Lavender)	176	221	66	255
Filter 102 (Light Amber)	213	255	0	255
Filter 103 (Straw)	193	255	19	245
Filter 140 (Summer Blue)	74	255	42	51
Filter 124 (Dark Green)	16	255	4	15
Filter 106 (Primary Red)	255	3	1	0
Filter 111 (Dark Pink)	255	116	48	255
Filter 115 (Peacock Blue)	4	255	37	29
Filter 126 (Mauve)	255	0	39	0
Filter 117 (Steel Blue)	130	255	40	55
Filter 118 (Light Blue)	14	255	78	11
Filter 122 (Fern Green)	3	255	4	102
Filter 182 (Light Red)	255	16	2	0
Filter 121 (Filter Green)	143	255	0	0
Filter 128 (Bright Pink)	255	0	31	103
Filter 131 (Marine Blue)	14	255	34	81
Filter 132 (Medium Blue)	7	228	120	0
Filter 134 (Golden Amber)	164	83	0	0
Filter 135 (Deep Golden Amber)	255	50	0	0
Filter 136 (Pale Lavender)	134	123	30	10
Filter 137 (Special Lavender)	129	123	40	10
Filter 138 (Pale Green)	186	255	14	32
Filter 798 (Chrysalis Pink)	49	17	144	32
Filter 141 (Bright Blue)	0	225	62	0
Filter 147 (Apricot)	122	102	5	88
Filter 148 (Bright Rose)	255	30	13	39
Filter 152 (Pale Gold)	97	128	11	102
Filter 154 (Pale Rose)	96	105	11	103
Filter 157 (Pink)	228	85	18	69
Filter 143 (Pale Navy Blue)	0	210	75	73
Filter 162 (Bastard Amber)	208	252	25	184
Filter 164 (Flame Red)	253	0	0	82
Filter 165 (Daylight Blue)	9	255	106	61
Filter 169 (Lilac Tint)	159	194	28	71
Filter 170 (Deep Lavender)	195	177	78	149

Robin LEDBeam	150 RGBA/150	FW RGBA - colours	on Virtual Colour Wheel
Room ELDDcum	130 100/0 130	I WINGDA COIDUIS	on virtual coloar vincer

Colour name	Red	Green	Blue	Amber
Colour name	(DMX)	(DMX)	(DMX)	(DMX)
Filter 172 (Lagoon Blue)	0	255	71	10
Filter 194 (Surprise Pink)	109	131	55	92
Filter 180 (Dark Lavender)	139	107	126	19
Filter 181 (Congo Blue)	30	0	255	3
Filter 197 (Alice Blue)	75	222	156	26
Filter 201 (Full C.T. Blue)	135	242	64	36
Filter 202 (Half C.T. Blue)	180	255	48	35
Filter 203 (Quarter C.T. Blue)	172	255	40	74
Filter 204 (Full C.T. Orange)	196	155	4	103
Filter 219 (Fluorescent Green)	80	155	23	26
Filter 206 (Quarter C.T. Orange)	137	185	18	92
Filter 247 (Filter Minus Green)	122	175	57	245
Filter 248 (Half Minus Green)	118	199	41	255
Filter 281 (Three Quarter C.T. Blue)	191	255	76	5
Filter 285 (Three Quarter C.T. Orange)	210	182	7	29
Filter 352 (Glacier Blue)	0	173	55	51
Filter 353 (Lighter Blue)	0	222	51	83
Filter 507 (Madge)	255	0	0	109
Filter 778 (Millennium Gold)	190	32	0	143
Filter 793 (Vanity Fair)	255	5	26	48