ROBE.

ROBIN® Viva CMY

ROBIN® Viva CMY
Wireless DMX
CRMX™

▨ ROBIN®
Innovative Technology

USER MANUAL

ROBE® lighting s.r.o. • Czech Republic • www.robe.cz
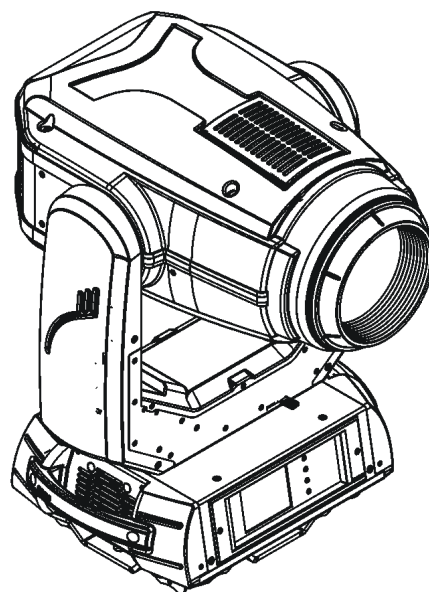
Robin Viva CMY

Table of contents

```
CAUTION!
Keep this device away from rain and moisture!
Unplug mains lead before opening the housing!
```

**FOR YOUR OWN SAFETY, PLEASE READ THIS USER MANUAL CAREFULLY
BEFORE YOU INITIAL START - UP!**

1. Safety instructions

Every person involved with installation and maintenance of this device have to:
- be qualified
- follow the instructions of this manual

```
CAUTION!
Be careful with your operations.
With a  high voltage  you can suffer
a dangerous electric shock when touching the wires!
```

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

Important:
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.

Never let the power-cord come into contact with other cables! Handle the power cord and all connections with the mains with particular caution!

Make sure that the available voltage is not higher than stated on the rear panel.

WARNING! This unit does not contain an ON/OFF switch. Always disconnect power input cable to completely remove power from unit when not in use or before cleaning or servicing the unit.

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

Always disconnect from the mains, when the device is not in use or before cleaning it. Only handle the pow-er-cord by the plug. Never pull out the plug by tugging the power cord.

This device falls under protection class I. Therefore it is essential to connect the yellow/green conductor to earth. The electric connection, repairs and servicing must be carried out by a qualified employee.

Do not connect this device to a dimmer pack.

During the initial start-up some smoke or smell may arise. This is a normal process and does not necessarily mean that the device is defective.

Do not touch the device's housing bare hands during its operation (housing becomes hot)!
For replacement use fuses of same type and rating only.

```
Warning! Risk Group 2 LED product according to EN 62471.
LED light emission. Risk of eye injury!
Do not look straight at the fixture´s LED source during operation. The intense light
beam may damage your eyes.
```

```
┌─────────────────────────────────────────────────────────────┐
│          Sensitive persons may suffer an epileptic shock.     │
│          Provide advance notice that strobe lighting is in use.│
└─────────────────────────────────────────────────────────────┘
```

```
┌─────────────────────────────────────────────────────────────┐
│  Do not view the light output with optical instruments or any device that may│
│                    concentrate the beam.                      │
└─────────────────────────────────────────────────────────────┘
```

2. Operating determination

This device is a moving head for creating decorative effects and was designed for indoor use only.
This device is for professional use only. It is not for household use.

If the device 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.

Do not shake the device. Avoid brute force when installing or operating the device.

Never lift the fixture by holding it at the projector-head, as the mechanics may be damaged. Always hold the fixture at the transport handles.

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

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

Always fix the fixture with an appropriate safety rope. Fix the safety rope at the correct holes only.

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

The maximum ambient temperature 45°C must never be exceeded.

```
┌─────────────────────────────────────────────────────────────┐
│                        CAUTION!                               │
│      The lens has to be replaced when it is obviously damaged, │
│   so that its function is impaired, e. g. due to cracks or deep scratches!│
└─────────────────────────────────────────────────────────────┘
```

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

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

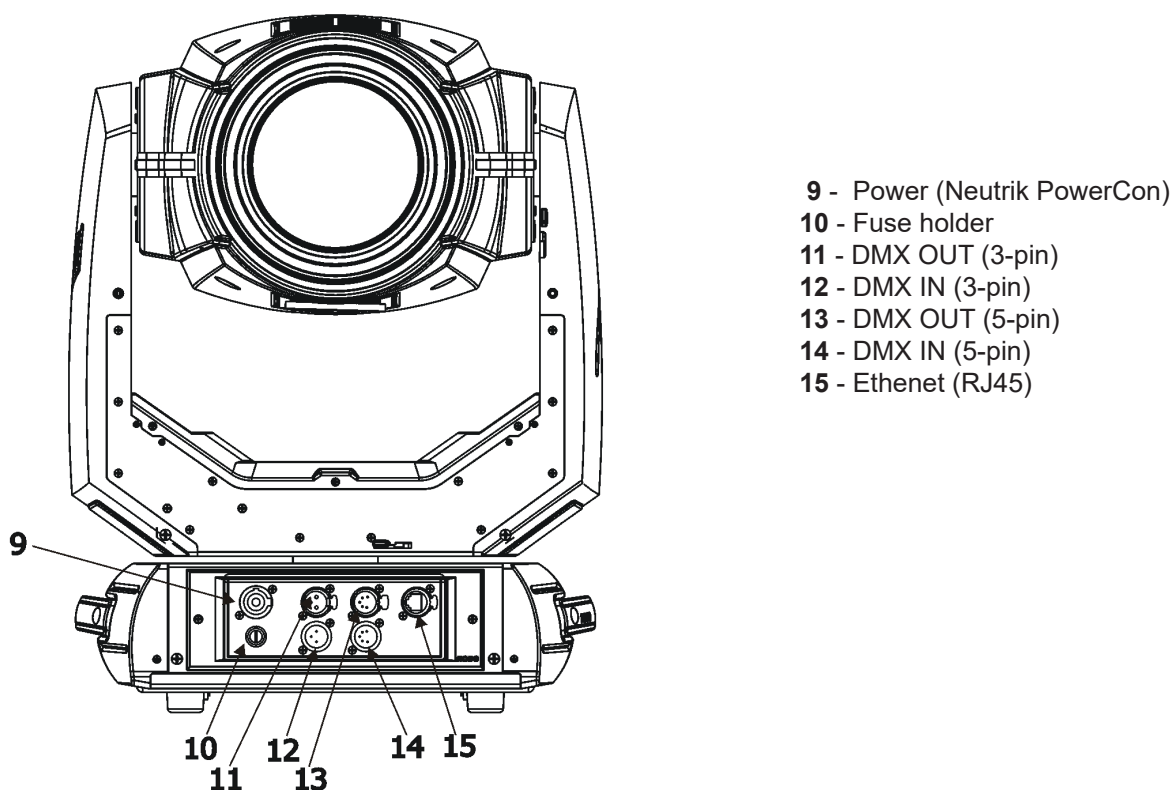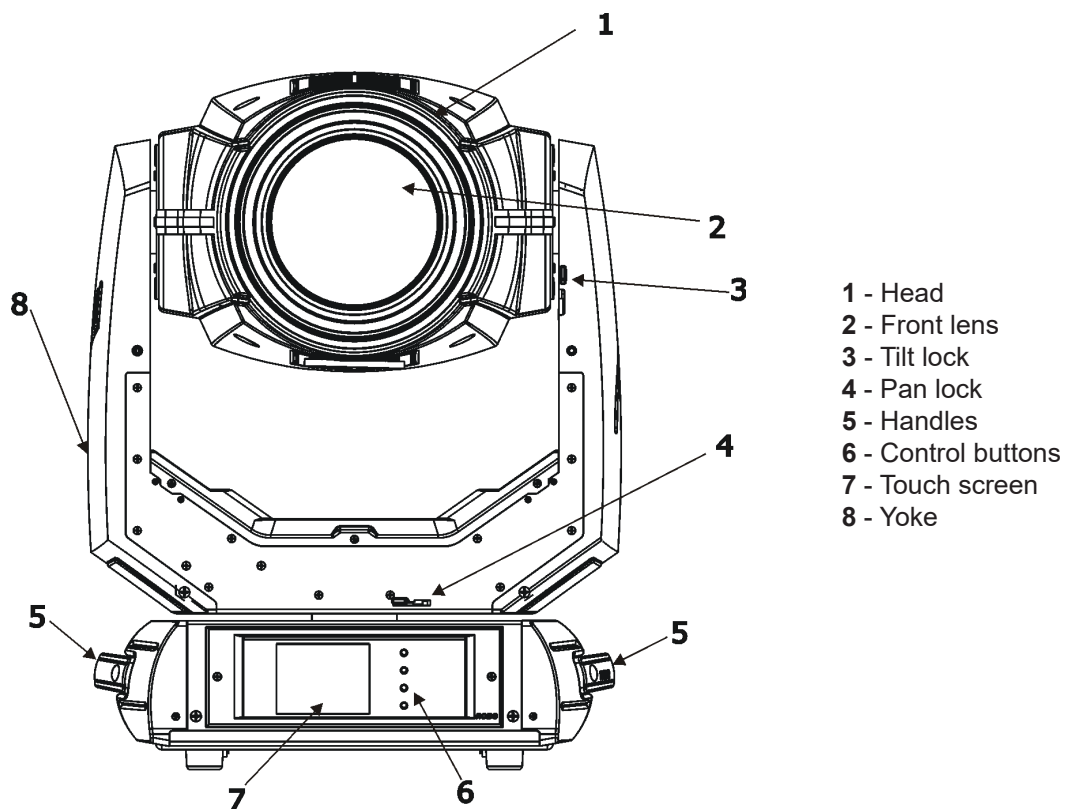The fixture housing never must be covered with cloth or other materials.

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

Please consider that unauthorized modifications on the device 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, burns etc.

```
┌─────────────────────────────────────────────────────────────┐
│                        CAUTION!                               │
│ To avoid damage of the internal parts of the fixture head, never let the sunlight or other│
│     fixture lights directly to the front lens, even when the fixture is not working!│
└─────────────────────────────────────────────────────────────┘
```

3. Fixture exterior view

1 - Head
2 - Front lens
3 - Tilt lock
4 - Pan lock
5 - Handles
6 - Control buttons
7 - Touch screen
8 - Yoke

9 - Power (Neutrik PowerCon)
10 - Fuse holder
11 - DMX OUT (3-pin)
12 - DMX IN (3-pin)
13 - DMX OUT (5-pin)
14 - DMX IN (5-pin)
15 - Ethenet (RJ45)

The head has to be locked for transportation - the tilt lock latch (3) and the pan lock latch (4) have to be in the locked positions. To unlock the head, move these latches to unlock positions before operating the fixture.
The ENTER/DISPLAY ON button also serves for switching the display on when the fixture is disconnected from the mains.

4. Installation

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

4.1 Connection to the mains

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

The Robin Viva CMY is equipped with auto-switching power supply that automatically adjusts to any 50-60Hz AC power source from 100-240 Volts.
Power cord is enclosed to the fixture. Install a suitable plug on the power cord if needed, note that the cores in the power cord are coloured according to the following table. The earth has to be connected!
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	⏚

4.2 Replacing rotating gobos

> **DANGER!**
> **Install the gobos with the device switched off only.**
> **Unplug from mains before!**

1. Disconnect the fixture from mains and allow it to cool.
2. Remove the plastic cover of the head by loosening the 4 quarter-turn fasteners on the cover.
3. Gently pull up the gobo holder (3) from the rotation gobo wheel.
4. Remove the spring lock (1) with an appropriate tool (e.g. small-bladed screwdriver) and remove it.
   Do not touch the surface of the pattern of the glass gobo with bare fingers.
5. Remove the original gobo (2) and insert the new one (glazy side towards the light source).
   The Robe gobo has a small position point (8) at its edge which has to aimed at the position point (4) on
   the gobo holder (4). Insert the spring lock to secure correct gobo position in the gobo holder.
6. Insert he gobo holder back under the distance slots (6, 7) into rotating gobo wheel in this way, that its
   position point (4) has to aimed at a small toothlike projection (5) on the edge of the rotating gobo wheel.
Important! When inserting the gobo holder back to the rotating gobo wheel, one of the adjacent gobo holder
has to be oriented according to the same rule, it means that its position point (4) has to aimed at the toothlike
projection (5) on the edge of the rotating gobo wheel. You have keep both marks (4) and (5) side by side when
rotating the gobo wheel to the position allows inserting the gobo holder back.
5. Replace the plastic cover before applying power.
6. Use the menu Service to fine adjust replaced gobo (Service -> Calibration -> Calibrate effects -> R. Gobo
Index 1 ...R. Gobo Index 6).
Note. The magnet (9) of the gobo holder has the same function as the position point (4) on the rest of gobo
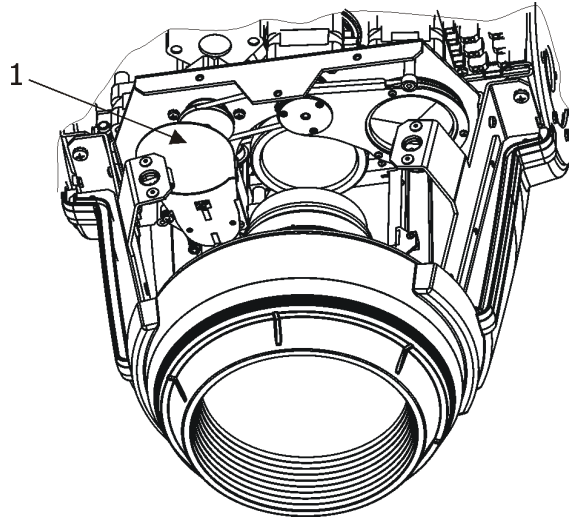holders.
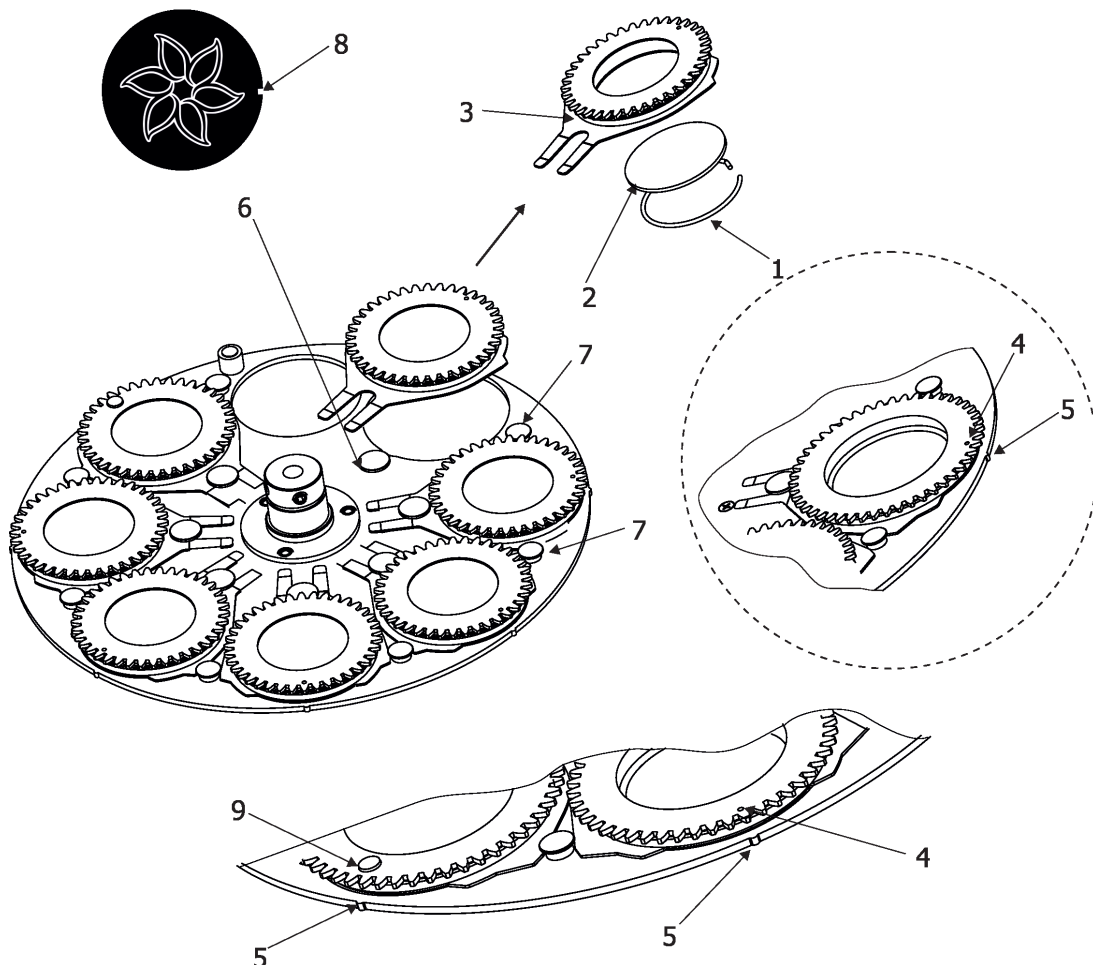
4.3 Replacing the frost

> ***Install the frost module with the device switched off only.***
> ***Unplug from mains before!***

To replace the frost module.
1. Disconnect the fixture from mains and allow it to cool for 10 minutes.
2. Remove plastic cover of the head by loosening the 4 quarter-turn fasteners on the cover to get access to the frost module (1).

3. The holder (2) of the frost film is fastened to the frost holder (6) by means of the four magnets (3). Grip the holder (2) and carefully tilt it out to break a force of magnets (3) on the frost holder (6).
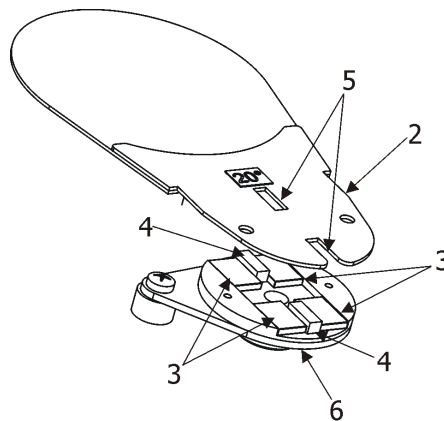
4. Insert a new frost module into the frost holder (6). Check, that both slots (5) snapped correctly into two protrusions (4) on the holder (6)
5. Place the plastic cover back on the fixture before applying power.

4.4 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 projector 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 fixture. 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: Fixtures 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.

Danger of fire !
When installing the device, make sure there is no highly inflammable material (decoration articles, etc.) in a distance of min. 0.5 m.

CAUTION!
Use 2 appropriate clamps 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 in any orientation on a truss without altering its operation characteristics .
For securing a fixture to the truss, install a safety wire that can hold at least 10 times the weight of the fixture. Use only the safety wire with screw-on carabine. Pull the safety wire through the safety attachment point on the bottom of the base and around the truss as shown on the pictures below.

Truss installation

1. Bolt each clamp (1) to the omega holder (3) with M12 bolt and lock nut through the hole in the holder.
2. Fasten the omega holders on the bottom of the base by inserting both quick-lock fasteners (4) into the holes of the base and tighten fully clockwise.
3. Pull the safety wire (2) through the attachment point and around the truss (6).

1-Clamps
2-Safety wire
3-Omega holder
4-Quick-lock fastener
5-Attachment point
6-Truss

Ø13
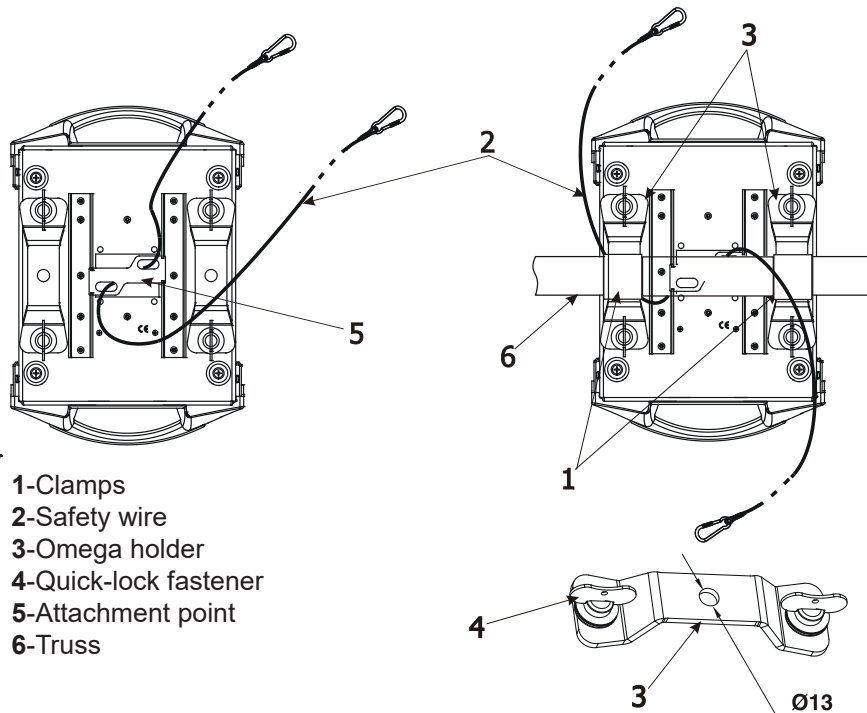
Alternativelly, fixtures handels can be used for safety attachment
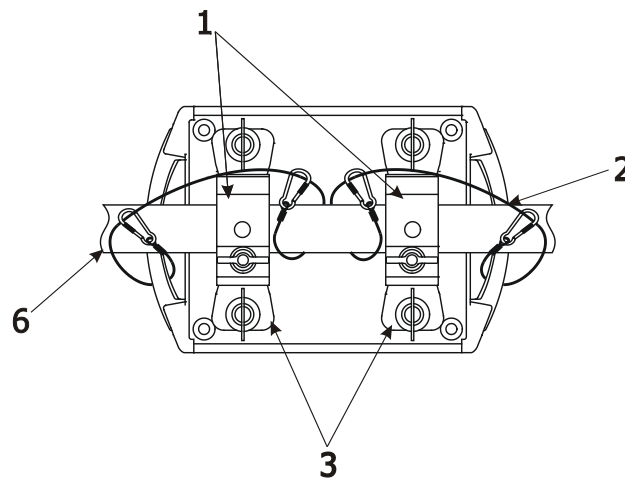
When installing fixtures side-by-side,
avoid illuminating one fixture with another!

DANGER TO LIFE!
Before taking into operation for the first time,the installation has to be approved by an expert!

4.5 DMX-512 connection

The fixture is equipped with both 3-pin and 5-pin XLR sockets for DMX input and output.The sockets are wired in parallel.
Only use a shielded twisted-pair cable designed for RS-485 and 3-pin or 5-pin XLR-plugs and connectors in order to connect the controller with the fixture or one fixture with another.

DMX - output
XLR mounting-sockets (rear view):

1 - Shield
2 - Signal (-)
3 - Signal (+)
4 - Not connected
5 - Not connected
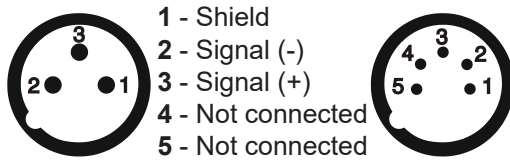
DMX-input
XLR mounting-plugs (rear view):

1 - Shield
2 - Signal (-)
3 - Signal (+)
4 - Not connected
5 - Not connected
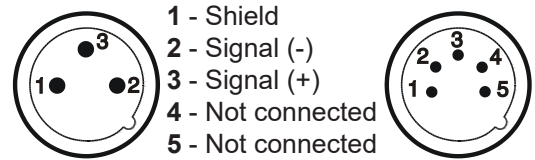
 If you are using the standard DMX controllers, you can connect the DMX output of the controller directly with the DMX input of the first fixture in the DMX-chain. If you wish to connect DMX-controllers with other XLR-outputs, you need to use adapter-cables.

Building a serial DMX-chain:

DMX controller
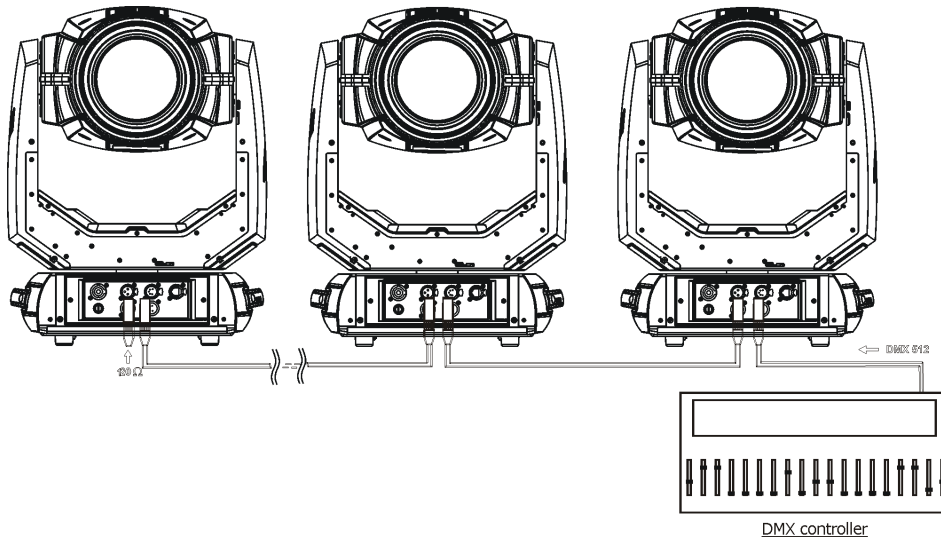
Connect the DMX-output of the first fixture in the DMX-chain with the DMX-input of the next fixture. Always connect one output with the input of the next fixture until all fixtures are connected.
Caution: At the last fixture, the DMX-cable has to be terminated with a terminator. Solder a 120 Ω resistor between Signal (–) and Signal (+) into a 3-pin XLR-plug and plug it in the DMX-output of the last fixture.

4.6 Ethernet connection

The fixtures on a data link are connected to the Ethernet with ArtNet communication protocol.The control software running on your PC (or light console) has to support Art-Net protocol.
Art-Net communication protocol is a 10 Base T Ethernet protocol based on the TCP/IP.Its purpose is to allow transfer of large amounts of DMX 512 data over a wide area using standard network technology.

IP address is the Internet protocol address.The IP uniquely identifies any node (fixture) on a network.
The Universe is a single DMX 512 frame of 512 channels.

The Robin Viva CMY is equipped with 8-pin RJ- 45 socket for Ethernet input.Use a network cable category 5 (with four "twisted" wire pairs) and standard RJ-45 plugs in order to connect the fixture to the network.

RJ-45 socket (front view):   **RJ-45 plug (front view):**

1 2 3 4 5 6 7 8

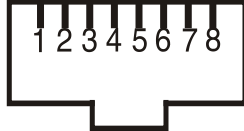1- TD+   5- Not connected
2- TD-   6- RX-
3- RX+   7- Not connected
4- Not connected   8- Not connected

8 7 6 5 4 3 2 1
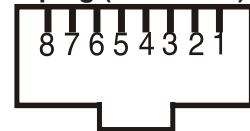
Patch cables that connect fixtures to the hubs or LAN sockets are wired 1:1,that is,pins with the same numbers are connected together:

| 1-1 | 2-2 | 3-3 | 4-4 | 5-5 | 6-6 | 7-7 | 8-8 |

If only the fixture and the computer are to be interconnected,no hubs or other active components are needed.A cross-cable has to be used:

| 1-3 | 2-6 | 3-1 | 4-8 | 5-7 | 6-2 | 7-5 | 8-4 |

If the fixture is connected with active Ethernet socket (e.g. switch) the network icon ▭ will appear at the bottom right corner of the screen:

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DMX: 001   IP: 2.242.8.0   ▭
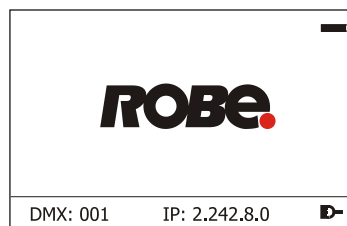
Direct Ethernet operation

Connect the Ethernet inputs of all fixtures with the Ethernet network.
Option "Artnet (gMaI or gMA2)" has to be selected from "Ethernet Mode" menu on the fixture.
Set IP address (002.xxx.xxx.xxx / 010.xxx.xxx.xxx) and the Universe.

(DMX address=97)   (DMX address=33)   (DMX address=1)
IP addres=002.168.002.004   IP addres=002.168.002.003   IP addres=002.168.002.002
Universe=1   Universe=1   Universe=1

Art-Net

Art-Net

Art-Net

Ethernet Switch
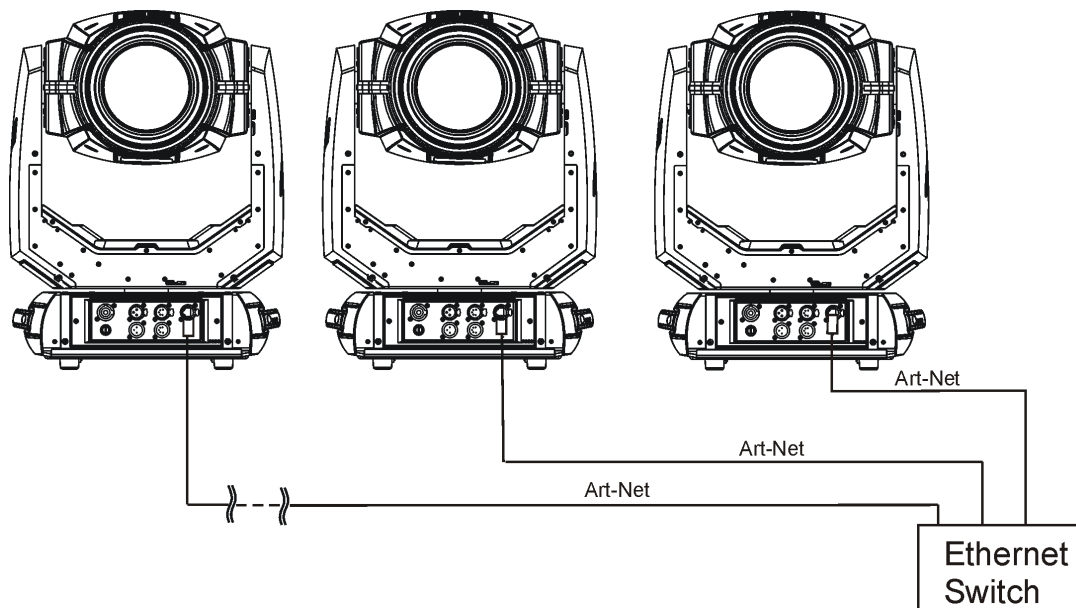
An advised PC setting: IP address: 002.xxx.xxx.xxx / 010.xxx.xxx.xxx (Different from fixture IP addresses)
NET mask: 255.0.0.0

Ethernet / DMX operation

Option " Artnet" (gMaI or gMA2 or sACN) has to be selected from "Ethernet Mode" menu at first fixture.

Option "Ethernet To DMX" has to be selected from the "Ethernet Mode" menu at the first fixture (connected to the Ethernet) in the fixture chain, next fixtures have standard DMX setting.

Connect the Ethernet input of the first fixture in the data chain with the network. Connect the DMX output of this fixture with the input of the next fixture until all fixtures are connected to the DMX chain.

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

DMX address=1
IP addres=002.168.002.002
Universe=0

DMX address=33

DMX address=97

DMX 512   DMX 512   Art-Net

120 Ω

Ethernet
Switch

DMX address=1
IP addres=002.168.002.003
Universe=1

DMX address=33

DMX address=97

DMX 512   DMX 512   Art-Net

120 Ω

13
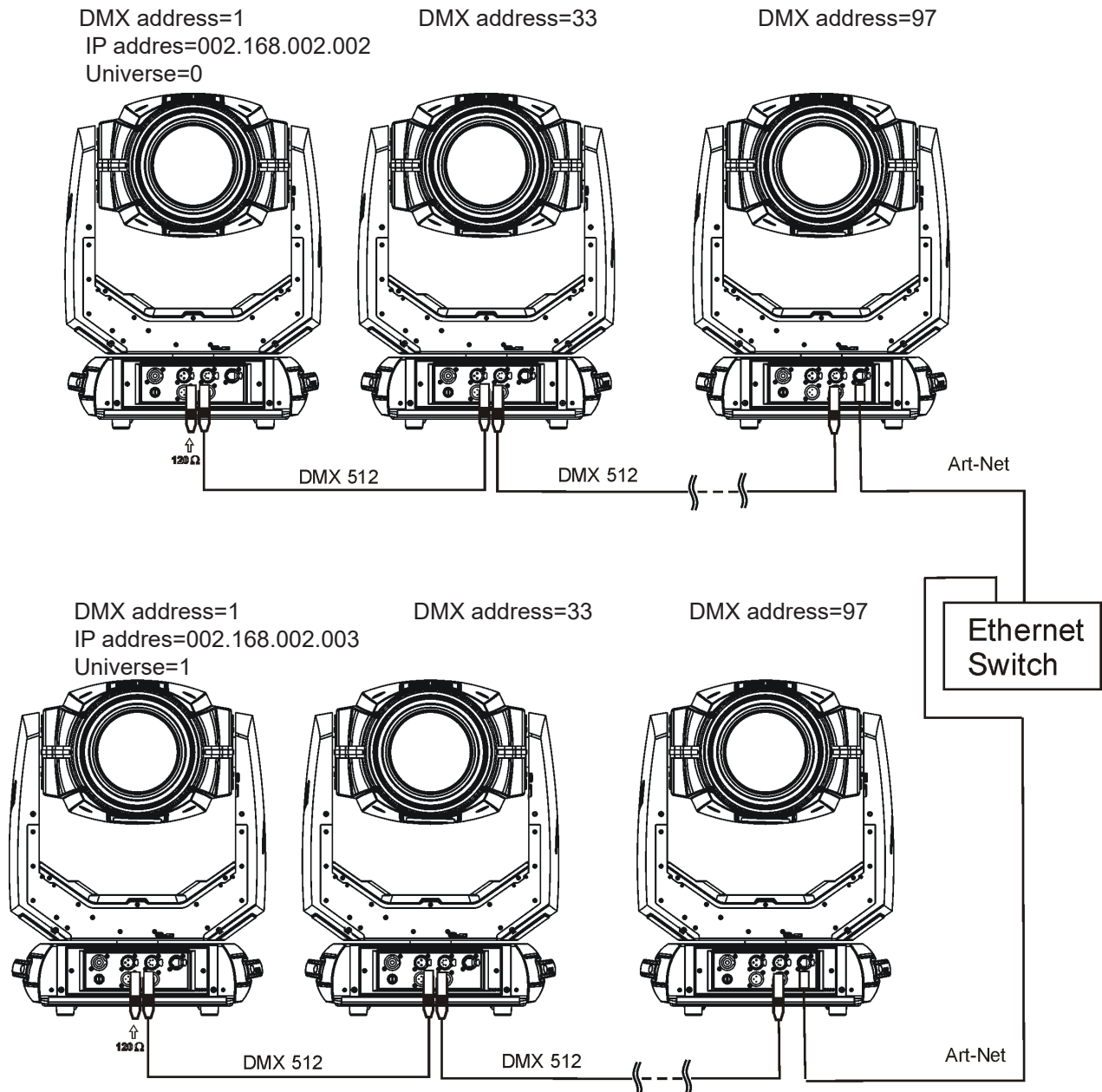
5. Remotely controllable functions

Light source
The 350W white LED light engine gives an extra punchy beam.

Colour wheel
This wheel contains 6 dichroic filters + open.The colour wheel can be positioned between two adjacent colours in any position. It is also possible to rotate the colour wheel continuously at different speeds ("Rainbow effect" in both directions).

CMY colour mixing system
The CMY color mixing system is based on graduated cyan, magenta, and yellow colour filters. A continuous range of colors may be achieved by varying the amount of each filter from 0 to 100%.

Static gobo wheel
The static gobo wheel includes 9 metal gobos. Gobo positioning and a gobo-shake function is available.

Rotating gobo wheel
The rotating gobo wheel includes 7 gobos rotating in both directions, indexable, replaceable "SLOT&LOCK" glass gobos + open position. Gobo positioning and gobo selection speed is available as well as a gobo-shake function.

Prism
The 3-facet prism rotates in both directions at different speeds, 16 prism/gobo macros are available.

Frost
Replaceable frost module provides variable frost for fine frosting.

Iris
Motorized adjustable iris, wide range of variable pulse effects.

Zoom
Motorized zoom unit enables zoom between 8° and 40° beam angle.

Dimmer/Shutter unit
Smooth 0 - 100 % dimming is provided by the electronic control unit. This unit is also used for strobe effects with variable speed.

Pan/Tilt
Fast pan/tilt movement due to built-in electronic motion stabilizer. The electronic motion stabilizer ensures precise position of the fixture´s head during its movement and reduces its swinging when the truss shakes.

Tilt movement range: 270°   Pan movement range: 540°
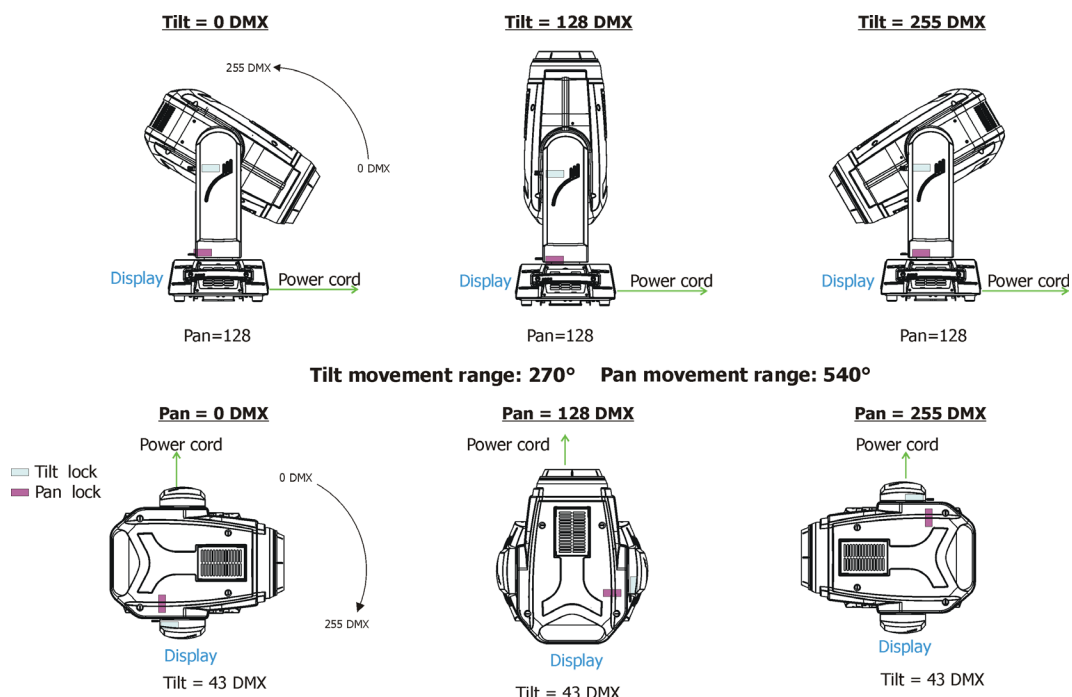
6. Control menu map

Default settings=Bold print

Tab	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6
Addressing	DMX Address	001-512				
	DMX Presets	**Mode 1**				
		Mode 2				
		View Selected Preset				
	Ethernet Settings	Ethernet Mode	Disable			
			ArtNet			
			gMAI			
			gMA2			
			sACN			
		Ethernet To DMX	**Off**, On			
		IP Address/Net Mask	Default IP Address			
			Custom IP Address			
			Net Mask			
		ArtNet Universe	0-255			
		MANet settings	MANetI/II Universe	01-256		
			MANet Session ID	01-32		
		sACN Settings	sACN Universe	00001-32000		
Information	Fixture Times	Power On Time	Total Hours			
			Resetable Hours			
		Air Filters	Elapsed Time			
			Alert Period			
	Fixture Temperatures	LEDs Temperature	Current			
			Maximum NonRes.			
			Maximum Res.			
		Ambient Temperature	Current			
			Maximum NonRes.			
			Maximum Res.			
		Base Temperature	Current			
			Maximum NonRes.			
			Maximum Res.			
	DMX Values	Pan				
		:				
		Dimmer Fine				
	Wireless State	Signal Quality				
		Unlink Wireless Adapter				
	Power Channel state					
	Software Versions	Display System				
		Module M				
		Module D				
		Module G				
		Module O				
		Module C				
	Product IDs	Mac Address				
		RDM UID				
		RDM Label				
	View Logs	Fixture Errors				

Tab	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6
		Fixture States	Power On			
			Power Off			
		Fixture Position				
		Fixture Temperatures	LED Temperatures			
			Ambient Temperatures			
			Base Temperatures			
Personality	User Mode	User A Settings				
		User B Settings				
	DMX Presets	**Mode 1**				
		Mode 2				
		View Selected Preset				
	DMX Input	**Wired input**				
		Wireless input				
		Wireless In/XLR Out				
	Pan/Tilt Settings	Pan Reverse	**Off**, On			
		Tilt Reverse	**Off**, On			
		Pan/Tilt Feedback	Off, **On**			
		Pan/Tilt mode	Time			
			Speed			
	Pan/Tilt EMS	**On**, Off				
	Microphone Sensitivity	1-**10**-20				
	Blackout Settings	Blackout During M.C.	**Off**, On			
		Blackout while:	Pan/Tilt moving	**Off**, On		
			Colour Wheel Moving	**Off**, On		
	Init Effect Positions	Pan	0-255			
		:				
		Dimmer Fine	0-255			
	Screen Settings	Display Intensity	1-**10**			
		Screen Saver Delay	**Off**-10min.			
		Touchscreen Lock	**Off**-10min.			
		Recalibrate Touchscreen				
		Display Orientation	Normal			
			Inverted			
			Auto			
	Temperature Unit	**°C**,°F				
	Fan Mode	**Auto**				
		High				
		Quiet				
	Dimmer Curve	Linear				
		Square law				
	Date & Time Settings					
	Default Settings					
	Password Protection	**Off**, On				
Manual Control	Reset Functions	Total System Reset				
		Pan, Tilt reset				
		Colour System Reset				
		Iris, Gobo System Reset				
		Optics/Prism/Frost Res.				
	Manual Effect Control	Pan	0-255			
		:				
		Dimmer Fine	0-255			

Tab	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6
Stand -Alone	Test Sequences	Dynamic Mode				
		Static Mode	Pan	0-255		
			Tilt	0-255		
			Zoom	0-255		
			Focus	0-255		
	MusicTrigger	**Off**, On				
	Preset Playback	**None**				
		Test				
		Prg. 1				
		Prg. 2				
		Prg. 3				
	Play Program	Play Program 1				
		Play Program 2				
		Play Program 3				
	Edit Program	Edit Program 1	Start Step	1-100		
			End Step	1-100		
			Edit Program Steps	Step 1	Pan	0-255
				:	:	
				:	Dimmer Fine	0-255
				:	Step Time	0-25,5 sec.
				Step 100	Pan	0-255
					:	
					Dimmer Fine	0-255
					Step Time	0-25.5 sec.
Service	Adjust DMX Values	Pan	0-255			
		:				
		Dimmer Fine	0-255			
	Calibrations	Calibrate Effects	Pan	0-255		
			:			
			Iris	0-255		
		Calibrate Pan/Tilt EMS				
		Load Default Calibrations				
	Update Software					

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7. Control menu

The Robin Viva CMY is equipped with the QVGA Robe touch screen with battery backup 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.
The fixture´s menu can be controlled either by the control buttons or directly by touching the icon.

Control buttons on the front panel:
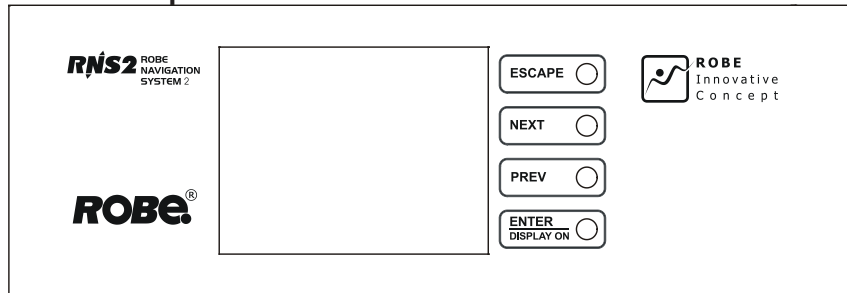
[ESCAPE] button used to leave the menu without saving changes.
[NEXT] , [PREV] buttons for moving between menu items and symbols, adjusting values.
[ENTER/Display On] button used to enter the selected menu (menu item) and to confirm adjusted value.
If the fixture is disconnected from mains, the button switches the touch screen on.

Icons used in the touch screen menu:

 - [back arrow] used to move back to the previous screen (menu).

 - [up arrow] used to move up on the previous page.

 - [down arrow] used to move down on the next page.

 - [confirm] used to save adjusted values, to leave menu or to perform desired action.

 - [cancel] used to leave menu item without saving changes.

 - [confirm+copy] used to save adjusted values and copy them to the next prog. step.

 - [warning icon] used to indicate some error which has occurred in the fixture.

 - [Ethernet] used to indicate Ethernet connected.

 - [menu rotation] used to rotate menu 180 degrees from current orientation.

 - [slider control] used to recall slider system for setting desired value.

 - [keyboard control] used to recall keyboard system for setting desired value.

 - [air filters cleaning] used to signal that cleaning period of the air filters elapsed.

The menu page displays icons for each function that you can perform from the touch screen.
After switching the fixture on, the touch screen shows the screen with the ROBE logo:

The green icon at the top right corner of the screen indicates the level of the display battery charging. If the whole icon is green, the batery is fully charged while the red icon indicates exhausted battery. The batery charges during fixture operation.

Touch any part of the screen or press the [ENTER/Display On] button to display the initial screen with the current stored DMX address:
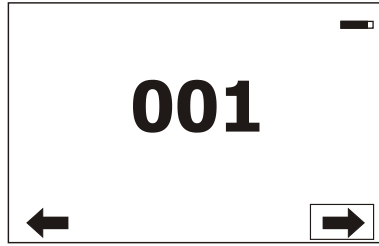
Touch the green arrow at the bottom right corner of the screen or press the [ENTER/Display On] button to enter the " Address" menu.

An item (such as a Tab, menu item, text box, icon) may be selected from a screen by simply touching the item in the list or by pressing the [NEXT] or [PREV] buttons to scroll through list items. With each press, the next item is highlighted. Press [ENTER/Display On] to select the highlighted item.

Before first fixture operation, set current date and time in the menu "Date &Time Settings" (menu path: Personality--> Date &Time Settings).

Note: The green icon at the top right corner of the screen indicates the level of the display battery charging. If the whole icon is green, the battery is fully charged while the red icon indicates exhausted battery. The battery charges during fixture operation, its charging lasts cca 6 hours.

We recommend that the fixture should be in operation at least 7 hours per week to keep the battery fully charged. If you switch the fixture on and this screen will not appear till 1 minute, switch the fixture off and on again. If the screen lights, the battery is exhausted. In case the screen still does not light, the battery is faulty.

This is also indicated by an error message "Faulty battery" and if such an error message appears the battery should be replaced immediately. The lifetime of the battery is highly dependent on ambient temperature (and consequently on base temperature). If the maximum ambient temperatures (as recorded and displayed in menu: Information -> Fixture Temperatures -> Ambient Temperature -> Maximum NonRes.) are kept within the specified limits, the battery should last for at least two years. Shell the ambient temperatures exceed the specified maximum temperature, the lifetime of the batteries could be considerably shortened even up to just one year or less and also result in physical damage (battery leakage) or unreliable fixture functions.

Damage caused by batteries failed due to exceeded maximum ambient temperature cannot be claimed under warranty terms.

7.1 Tab " Address"

DMX Address - Select the menu to set the DMX start address**.**

DMX Preset - Use the menu to select desired channel mode.
   Mode 1 - 32 control channels
   Mode 2 - 26 control channels
   View Selected Preset - Use the menu to display channels included in the selected mode.

Ethernet Settings - The menu allows all needed settings for the Ethernet operation

        Ethernet Mode
                Disable - The option disables Ethernet operation.
                Artnet - Fixture receives Artnet protocol
                gMAI - Fixture receives MANet I protocol
                gMA2 - Fixture receives MANet 2 protocol
                sACN - Fixture receives sACN protocol

        Ethernet To DMX - Fixture receives protocol from the Ethernet input and sends DMX
        data to its DMX output (fixture works as an "Ethernet/DMX converter", next fixture can be
        connected to its DMX output and you can build a standard DMX chain by connecting another fixtures.

Only one fixture has to be connected to the Ethernet.

IP Address/Net Mask - Select this menu to set IP address. IP address is the Internet protocol address.The IP uniquely identifies any node (fixture) on a network.
There cannot be 2 fixtures with the same IP address on the network!

> **Default IP Address** -Preset IP address, you can set up only first byte of IP address (2 or 10) e.g. **002**.019.052.086.
> **Custom IP Address** - The option enables to set up all bytes of IP address.
> **Net Mask** - The option enables to set up all bytes of Net Mask.

ArtNet Universe - Use this item to set a Universe (0-255). The Universe is a single DMX 512 frame of 512 channels.

MANet Settings - Use this menu to set parameters for MANet operation.
> **MANet Universe I/II** - The value of this item can be set in range 1-256.
> **MANet Session ID** - The value of this item can be set in range 1-32.

sACN Settings - Use this menu to set parameters for sACN operation.
> **sACN Universe** - The value of this item can be set in range 1-32000.

7.2 Tab "Information"

Fixture Times - The menu provides readouts of fixture and LED module operation hours.
> **Power On Time Hours** - Select this menu to read the number of fixture operation hours.
>> **Total Hours** - The item shows the total number of the operation hours since the Robin Viva CMY has been fabricated.
>> **Resetable Hours** - The item shows the number of the operation hours that the Robin Viva CMY has been powered on since the counter was last reset.
>> In order to reset this counter to 0, touch the text box next to the item "Resetable Hours:"

Air Filters - Regular cleaning of the air filters is very important for the fixture´s life and performance.
Bild-up of dust, dirt and fog fluid residues reduces the fixture´s light output and cooling ability.
The two items of this menu help you to keep cleaning period of the air filters.
> **Alert period** - Cleaning schedule for the fixture depends on the operating environment. It is therefore impossible to specify accurate cleaning interval. This item allows you to change the cleaning interval of the air filters. This "alert" value is 300 hours and it is set as default. Inspect the fixture within its 300 hours of operation to see whether cleaning is necessary. If cleaning is required, clean all air filters and change the value in this menu on acceptable level. Min. level of alert period is 10 hours, max. is 300 hours.
> **Elapsed Time** - The item allows you to read the time which remains to cleaning air filters. The time period is set in the menu mentioned above.
> Expired time period is signalled by a negative mark (-) at the time value and a warning icon on the display.
> Clean the filters and reset this menu item (by touching the text box next to the item "Elapsed Time").

Fixture Temperatures - The menu is used to view temperatures of the fixture´s inside.
> **LEDs temperatures** - The menu shows temperature on the LED source.
>> **Cur.** - A current temperature of the LED source.
>> **Max.** - A maximum temperature of the LED source since the fixture has been fabricated.
>> **Max. Res.** - A maximum temperature of the LED source since the counter was last reset.
>> In order to reset some counter to 0, touch desired text box under item "Max.Res."
> **Ambient Temperature** - The menu shows temperature of the induced air on the fan in the fixture base .
>> **Current** - A current temperature of the induced air in the fixture base.
>> **Maximum NonRes.** - A maximum temperature of the induced air in the fixture base since the fixture has been fabricated.

Maximum Res. - A maximum temperature of the induced air in the fixture base since since the counter was last reset.
In order to reset this counter to 0, touch the text box next to the item "Maximum Res."

Base Temperature - The menu shows temperature in the fixture base (on the display PCB).
  Current - A current temperature in the fixture base.
  Maximum NonRes. - A maximum temperature in the fixture base since the fixture has been fabricated.
  Maximum Res. - A maximum temperature in the fixture base since the counter was last reset.
  In order to reset this counter to 0, touch the text box next to the item "Maximum Res."

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

Wireless State - The menu serves for reading of the wireless operation status
  Unlink Wireless Adapter - The menu item allows unlinking the fixture from the transmitter .

Power Channel State - The menu item shows state of the Power/Special functions switches.

Software Version - Select this item to read the software version of the fixture modules:
  Display System - A display processor on the display board in the fixture base
  Module M - A pan/Tilt processor.
  Module D - A Magenta wheel /Cyan wheel/ Colour wheel/ light source control processor.
  Module G - A rot. gobo/stat. gobo/iris processor.
  Module O - A focus/zoom/prism/frost/ processor .
  Module C - A Colour/Yellow wheel processor

Product IDs - The menu is used to read the MAC Address ,RDM UID and RDM Label.

View Logs - Use this menu to read fixture´s data which have been recorded during fixture operation. This colected data allows easier troubleshooting.
  Fixture Errors - Use this menu to read fixture errors which have occured during fixture operation.
  Fixture States - Recorded following actions: Fixture On, Fixture Off.
  Fixture Position - Recorded installation positions of the fixture:

| **Front Normal** | **Front Inverted** | **Side Top** | **Side Bottom** | **Top** | **Bottom** |
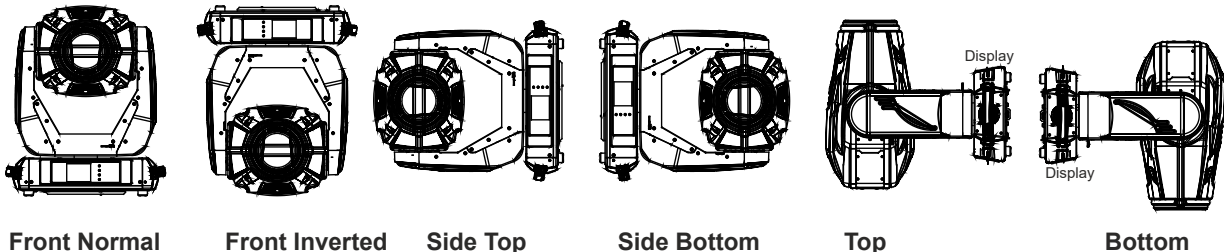
  Fixture Temperatures - Recorded temperatures which have exceeded defined levels.

Note: The log buffer can contain 8000 records max. If the buffer is full, old data will be overwritten.

7.3 Tab "Personality"

User mode - The Robin Viva CMY allows you to recall 2 user settings. After switching the fixture on for the first time, the User A settings is active. Now all changes made in the "Personality" menu , "Addressing" menu and the "Music Trigger" and " Preset Playback" items from the "Stand-alone" menu are saved to the User A settings. If you now select the User B settings, from this moment the changes made in these menus will be saved to the User B settings. After switching the fixture off and on, the User B setting is active. In this way you may use the two fixture operating behaviours.
  User A Settings - the function recalls the user A settings.
  User B Settings - the function recalls the user B settings.

DMX Preset - Use the menu to select desired channel mode.
   Mode 1 - 32 control channels
   Mode 2 - 26 control channels
   View Selected Preset - Use the menu to display channels included in the selected mode.

DMX Input- Use the menu to select mode of DMX signal receiving.
   Wired - DMX signal is received by means of the standard DMX cable.
   Wireless - DMX signal is received by means of the inbuilt wireless module.
   Wireless In/XLR Out- the fixture receives wireless DMX and sends the signal to its wired DMX output.
          The fixture behaves as " Wireless/Wired" adapter.
The options "Wired" and "Wireless" are also stated in DMX chart (channel Power/Special functions).
Note. If the wireless module is not installed in the fixture, the following message will appear:
          DMX Input Set to Wired
          Wireless Module Missing
If the fixture is not connected to mains, the message "Not Available In Offline Mode" will appear after entering the menu DMX Input. To enter this menu, the fixture has to be connected to mains.

Pan/Tilt Settings - Use the menu set behaviour of both pan and tilt movements.
   Pan Reverse - The item allows to invert pan movement.
   Tilt Reverse - The item allows to invert tilt movement.
   Pan/Tilt Feedback - The 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. Be careful, the Pan/Tilt Feedback should be permanent On, the option Off is not suitable for standard operation and the head can be damaged!
   Pan/Tilt mode - Use this menu to set the mode of the pan/tilt movement
          Time mode – 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".
          Speed Mode - Both pan and tilt will move with the same speed as adjusted at the channel "Pan/Tilt speed, Pan/Tilt time".

Pan/Tilt EMS - Built-in electronic motion stabilizer ensures precise position of the fixture´s head during its movement and also reducing its swinging when the truss shakes.

Microphone Sensitivity - Enter the menu if you want to adjust the microphone sensitivity from 1 (max.) to 20 (min.).

Blackout Settings - Use the menu if you need to close the light output under certain conditions which are described below
   Blackout DMC - 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.
   Active Blackouts - Use this menu if you wish to close the light output during effect changes.
          Pan/Tilt Moving - The menu item enables to close light output while the pan/tilt coordinates are changing.
          Colour Wheel Moving - The menu item enables to close light output while the colour wheel is moving.
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.

Screen Settings - Use this menu to change the touch screen settings.
   Display Intensity - The item allows to control the intensity of the screen (1-min., 10-max.).
   Screen saver Delay - The item allows you to keep the screen on or to turn it off automatically after 1-10 minutes after last touch (or pressing any button on the control panel).
   Touchscreen Lock - The item allows you to lock the screen after last touch (or pressing any button on the control panel). The time delay can be set in range of 1-10 minutes.To unlock the screen, press the [ENTER/Display On] button.
   Recalibrate Touchscreen - The item starts calibration of the touchscreen. Follow the instructions on the screen.
   Display Orientation - The menu allows to change display orientation.
          Normal - Standard display orientation if the fixture is placed horizontally (e.g. on the ground).
          Inverted - Inverted orientation (needed if the fixture is hanging on the truss).
          Auto - The option activates a gravitation sensor for automatic screen orientation.

Note: **Auto** option is set as default. You change the display orientation by touching the icon 🔄 on the display, an the option set in the "Display Orientation" menu is temporarily overriden.
Dimmer Curve - You can select desired dimmer curve: Linear or Square Law.
Temperature unit - Use the menu item to change temperature unit from °C to °F.

Fan Mode - Use the menu to set the fixture fans to max. fan power mode ("**High**") or to the auto-control mode ("**Auto**"). The third mode ("**Quiet**") allows to set desired noise of the fans and the adjusted noise level is kept during fixture operation. The " **Fan Noise Leve**l" menu serves for adjusting fans power from min. to max.
To switch the fixture to the "Quiet" mode can be also realized by DMX value from range of 241-255 on the "power/Special functions" channel.
Note: the light output at min. level of the fan noise is reduced.

Date & Time Settings - Use this menu to set current date and time for the fixture log system (menu "**View Logs**"). Set this menu item before first fixture operation.

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

Password Protection - if the item is on, a password is required to enter the fixture menu. The password cannot be changed. The password prevents unauthorized person from changing setting of the fixture.

7.4 Tab "Manual Control"

Reset Functions - The menu allows to reset the fixture either per function modules or all modules together.
   Total System Reset - The item resets all function modules.
   Pan, Tilt Reset - The item resets a pan and tilt movement.
   Colour System Reset - The item resets colour wheel and CMY wheels.
   Iris, Gobo System Reset - The item resets a static/rotating gobo wheel.
   Optics/Prism/Frost Res. - The item resets a zoom, focus, prism and a frost module.

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

7.5 Tab "Stand-alone"

Test Sequences -Use the menu to run a test/demo sequences without an external controller, which will show you some possibilities of using Robin Viva CMY.
   Dynamic Mode - This mode uses all Robin Viva CMY functions including pan/tilt movement and therefore is good for a complete introduction of the fixture.
   Static Mode - This mode is suitable for projections on the wall, ceiling or ground without any pan/tilt movement. Adjust the pan, tilt, zoom, focus and hot-spot to desired positions an start test sequences by touching the green ▶ icon.

Music Trigger - Use the item to activate the sound control of the running program via the built-in microphone.

Preset Playback - This menu allows you to select the program which will be played in a loop after switching the fixture on (the option is commonly used in a stand-alone operation without an external controller).
   None - The option disables "Presetting playback" function.
   Test - The option starts the test sequences.
   Prog. 1 - The option starts user program No. 1.
   Prog. 2 - The option starts user program No. 2.
   Prog. 3 - The option starts user program No. 3.
Play program - Use the menu to run desired program in a loop.
   Play Program 1 - The option starts user program No.1.
   Play Program 2 - The option starts user program No. 2.

Play Program 3 - The option starts user program No. 3.

Edit Program - Use the menu to create or to edit desired program. The Robin Viva CMY offers 3 free programs, each up to 100 steps.

  Edit Program 1 - The option allows to edit user program No.1.
  Edit Program 2 - The option allows to edit user program No.2.
  Edit Program 3 - The option allows to edit user program No.3

To edit program:

1. Touch the item which you want to edit ("Edit Program 1" - "Edit Program 3").
2. Touch the item "Edit Program Steps".
3. Touch the item "Step 1".
4 From the list of effects touch desired effect and set its value. Browse throw the list by touching the [up arrow] and [down arrow] and set all desired effects.
An item "Step Time" (value of 0-25.5 sec.) is the time during which effects last in the current step
5. Save adjusted effects to the current step by touching the [confirm] or save and copy them to the following step by touching the [confirm+copy]. By touching the text box "Preview" next to the current program step you can view created scene.
6. Repeat the steps 4 and 5 for next program steps.
7. After editing desired program steps, adjust the length of the program by touching the text boxes "Start Step" and "End Step".

Meaning of the icons used in the "Edit Program" menu:

  - moves down on the next page   - saves adjusted values and leaves menu
  - moves up on the previous page   - saves values to the current step and copy them to the
                                                                following prog. step

  - leaves menu without saving values

There is a chart describing behaviour of items "Pan/Tilt Macro" and "P./T. Macro Speed".

DMX	Pan/Tilt Macro
0 - 9	Disabled pan/tilt macro
10 - 31	Reserved
32 - 63	Figure of circle (from small to large)
64 - 95	Figure of horizontal eight (from small to large)
96 - 127	Figure of vertical eight (from small to large)
128 - 159	Figure of rectangle (from small to large)
160 - 191	Figure of triangle (from small to large)
192 - 223	Figure of star (from small to large)
224 - 255	Figure of cross (from small to large)
0	**Pan/Tilt Macro Speed** No macro generation Macro generation from fast to slow-forwards No macro generation Macro generation from slow to fast-backwards

7.6 Tab "Service"

Adjust DMX Values - The menu allows you to set all effects to desired positions before fine calibration of the effects .

Calibrations - This menu enables fine calibration of fixture effects and download default calibration values.

  Calibrate Effects - The menu allows the fine adjustment of effects. The menu contains list of effects which can be calibrated:

        Pan- a fine pan movement
        Tilt - a fine tilt movement
        Colour Wheel - a colour wheel
        Cyan - a cyan wheel
        Magenta - a magenta wheel
        Yellow - a yellow wheel

Static Gobo - a static gobo wheel movement
Rot. Gobo Wheel - a carousel of rotating gobos
R. Gobo Index 1 - a fine movement of rotating gobo 1
R. Gobo Index 2 - a fine movement of rotating gobo 2
R. Gobo Index 3 - a fine movement of rotating gobo 3
R. Gobo Index 4 - a fine movement of rotating gobo 4
R. Gobo Index 5 - a fine movement of rotating gobo 5
R. Gobo Index 6 - a fine movement of rotating gobo 6
R. Gobo Index 7 - a fine movement of rotating gobo 7
Prism - a prism movement
Prism Rot - a prism rotation
Zoom - a zoom module
Frost 1/1 - a frost position 1
Frost 1/2 - a frost position 2
Focus - a focus module
Iris - an iris module

By using these items you can calibrate and adjust effects to their right positions.

Calibration via the control board
1. Disconnect DMX controller from the fixture and enter the "Calibrate Effects" menu.
2. Use the [up arrow] and [down arrow] to find desired effect and touch it to enter the fine effect adjustment screen.
3. Set desired value and save it by touching the [confirm].
4. Repeat steps 2 and 3 for the next effects.
5. After calibrating all effects, touch the [confirm] to save all adjusted values and reset the fixture.

Calibration via the DMX controller
1. Connect DMX controller to the fixture and set fixture effects to the desired positions before fine calibration.
2. Enter the "Calibrate Effects" menu and now you can exactly calibrate desired effects by DMX controller.
There is a calibration protocol:

Effect	Mode 1	Mode 2
Pan	channel 33	channel 27
Tilt	channel 34	channel 28
Colour wheel	channel 35	channel 29
Cyan	channel 36	channel 30
Magenta	channel 37	channel 31
Yellow	channel 38	channel 32
Static Gobo	channel 39	channel 33
Rot. Gobo Wheel	channel 40	channel 34
R. Gobo Index 1	channel 41	channel 35
R. Gobo Index 2	channel 42	channel 36
R. Gobo Index 3	channel 43	channel 37
R. Gobo Index 4	channel 44	channel 38
R. Gobo Index 5	channel 45	channel 39
R. Gobo Index 6	channel 46	channel 40
R. Gobo Index 7	channel 47	channel 41
Prism	channel 48	channel 42
Prism rot.	channel 49	channel 43
Zoom	channel 50	channel 44
Frost 1/1	channel 51	channel 45
Frost 1/2	channel 52	channel 46
Focus	channel 53	channel 47
Iris	channel 54	channel 48

After having calibrated all effects, touch the [confirm] to save adjusted values and reset the fixture.

Calibrate Pan/Tilt EMS - This menu item allows calibration of the pan/tilt electronic motion stabilizer. Important: during this calibration any external force must not influence the fixture and the surface at which the fixture stands (or truss if the fixture hangs) has to be without movement, shake, strokes etc.

Load Default Calibrations - The item loads default (factory) calibration values.

Updating software - The menu item allows you to update software in the fixture via either serial or USB port of PC.

The following are required in order to update software:
- PC running Windows 95/98/2000/XP/7/8 or Linux
- DMX Software Uploader
- Flash cable RS232/DMX P/N 13050624 (if you want to use a serial port of PC)
- Robe Universal Interface (if you want to use an USB port of PC)
Note: DMX address, IP address, programs 1-3 and all items in the menu "Personality" will be set to their default (factory) values.
To update software in the fixture:
I. Installation of the DMX Software Uploader.
  1. DMX Software Uploader program is available from the ROBE web site at WWW.robe.cz.
  2. Make a new directory (e.g. Robe_Uploader) on your hard disk and download the software to it.
  3. Unpack the seftware.
II.Fixture software updating.
  1.Determine which of your ports is available on your PC and connect it:
  - with the DMX input of the fixture if you using the flash cable RS232/DMX
  - with the DMX output of the Robe Universal Interface if you using the USB cable.
  Disconnect the fixture from the other fixtures in a DMX chain. Turn both the computer and
  the fixture on. Make sure the lamp is switched off (only if the fixture involves a lamp).
  2. Switch the fixture to the updating mode by touching the "Updating Software " item
  Note: If you do not want to continue in software update, you have to switch off and on the fixture
  to escape from this menu.
  We recommend to cancel all running programs before starting the Software Uploader.
  3. Run the Software Uploader program. Select desired COM and then click on the Connect button.
  (Select COM if the serial port is used or Robe Universal Interface if the USB port is used).
  If the connection is OK, click on the "Start Uploading button" to start 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 later versions of processors, 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 "The fixture is successfully updated" will appear in
   this window and the fixture will reset with the new software.
Note: In the case of an interruption of the upload process (e.g. power cut), the fixture keeps the updating mode and you have to repeat the software update again.

8. 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 Viva CMY 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 [1]			*

[1]...Commands relative resetable values

9. Wireless DMX operation

The wireless DMX version of the Robin Viva CMY is equipped with the Lumen Radio CRMX module and antenna for receiving DMX signal. CRMX module operates on the 2.4 GHz band.

The item " Wireless " from the menu "DMX Input" allows you to activate receiving of wireless DMX (Personality--> DMX Input -->Wireless.).

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 "Wireless State" (Information -->Wireless State).
To unlink the fixture from DMX transmitter.
The fixture can be unlinked from receiver via the menu item " Unlink Wireless Adapter" (Information--> Wireless State --> Unlink Wireless Adapter.).

10. Error and information messages

Information icon

 - Air Filters Cleaning

This icon signalizes that cleaning period of the air filters has elapsed
and you have to clear air filters and reset the menu item "Elapsed Time".
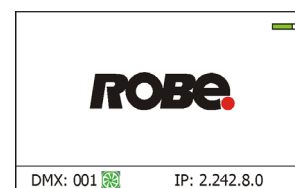
Errors
Error in the fixture is signalled by the yellow warning icon at the bottom line of the screen:

Touch the warning icon or press the [ESCAPE] button to display error messages.
List of error and information messages:

Tilt Error 1 *(Tilt Error 2)*
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.

Pan Error 1 *(Pan Error 2)*

This message will appear after the reset of the fixture if the yoke´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 yoke is not located in the default position after the reset of the fixture.

Colour Wheel Error 1 (Colour Wheel Error 2*)*

The messages will appear after the reset of the colour wheel if this wheel is not located in the default position.

Cyan Error 1 (Cyan *Error 2)*

The messages will appear after the reset of the cyan colour wheel if this wheel is not located in the default position.

Magenta Error 1 (Magenta *Error 2)*

The messages will appear after the reset of the magenta colour wheel if this wheel is not located in the default position.

Yellow Error 1 (Yellow *Error 2)*

The messages will appear after the reset of the yellow colour wheel if this wheel is not located in the default position.

Prism Error 1 *(Prism Error 2)*

The messages will appear after the reset of the prism wheel if this wheel is not located in the default position.

Zoom Error 1 *(Zoom Error 2)*

The messages will appear after the reset of the zoom module if the zoom lens is not located in the default position.

Focus Error 1 *(Focus Error 2)*

The messages will appear after the reset of the focus module if the focus lens is not located in the default.

Gobo Carousel Error 1 *(Gobo Carousel Error 2)*

The messages will appear after the reset of the rotating gobo wheel if this wheel is not located in the default position.

Gobo rotation Error 1 *(Gobo Rotation Error 2)*

The messages will appear after the reset of the rotating gobo wheel if the rotating gobos are not located in the default positions.

Static Gobo Error 1 *(Static Gobo Wheel Error 2)*

The messages will appear after the reset of the static gobo wheel if this wheel is not located in the default position.

Clean Air Filters

The message informs that the item "Elapsed Time" in the "Fixture Information" menu is at 0 value. Clean air filters and reset this counter.

White 1 Short Error (*White 2 Short Error/ White 3 Short Error/ White 4 Short Error)*

Some white LEDs in the light source have short circuit.

White 5 Short Error (*White 6 Short Error/ White 7 Short Error/ White 8 Short Error)*

Some white LEDs in the light source are disconnected.

11. Technical Specifications

Electrical

Power supply:.........................electronic auto-ranging
Input voltage range:.............. 100-240V, 50/60Hz
Max. power consumption:.......500 W@230V (power factor=0.98)
Fuse:.....................................T 5 A

Light source

350W white engine
Colour temperature: 6500K
CRI=75

Colour wheel

6 dichroic filters + open

CMY colour mixing

Smooth CMY colour mixing system
68 preset colours on Virtual colour wheel

Static gobo wheel

9 metal gobos, image diameter=22.5mm, aluminium, thickness=0.5 mm
Gobo wheel continuous rotation

Rotating gobo wheel

7 glass gobos can be indexed and rotated in both directions at different speeds
Gobo wheel continuous rotation
Glass gobos: outside diameter=26.8 mm, max. thickness=4 mm, high temperature borofloat or better glass
"Slot&lock" system for easy replacement of gobos
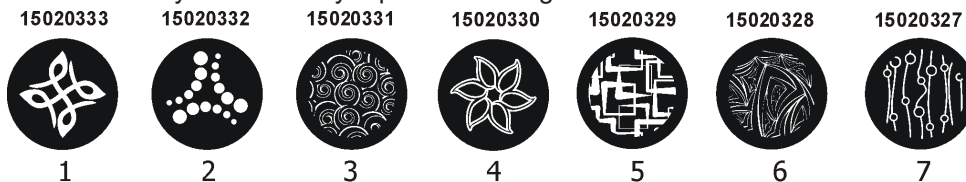
Prism

Rotating 3-facet 11° prism with continuous rotation in both directions

Iris

Motorized iris for different beam diameters

Frost filter

replaceable,variable frost filter 20°
1°,10°and 30° filters as optional (not included)

Zoom

        Linear motorized zoom (9°- 40°)

Strobe

        Strobe effect with variable speed (max.15 flashes/sec.)

Dimmer

        Smooth dimmer from 0 - 100 %

Control

        Graphic touch screen for fixture setting and addressing
        Gravitation sensor for auto screen positioning
        Battery backup of the touch screen
        Readout fixture usage, receiving DMX values, temperatures, etc
        Built-in analyzer for easy fault finding, error messages
        Built-in demo sequences
        Black-out while head moving, colour changing
        Silent fans cooling,
        Stand-alone operation
        3 user editable programs, each up to 100 steps
        Supported protocols: USITT DMX 512, RDM, ArtNet, MANet, MANet2, sACN
        Support of RDM (Remote Device Management)
        2 DMX modes (32, 26, control channels)

Optional Wireless DMX/RDM module

        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

Pan/Tilt

        Pan movement range 540°
        Tilt movement range 270°
        16 bit movement resolution
        Pan/Tilt electronic motion stabilizer
        Automatic Pan/Tilt position correction
        Remotely controllable speed of pan/tilt movement for easy programming
        Pan/tilt-lock mechanism

Rigging

        Mounting points: 2 pairs of 1/4-turn locks
        Mounting horizontally or vertically via 2 Omega brackets

Temperatures

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

Minimum distances

        Min. distance from flammable surfaces: 0.5 m
        Min. distance to lighted object: 2 m

Total heat dissipation

        1700 BTU/h (calculated)

Weight

19 kg

Dimensions (mm)
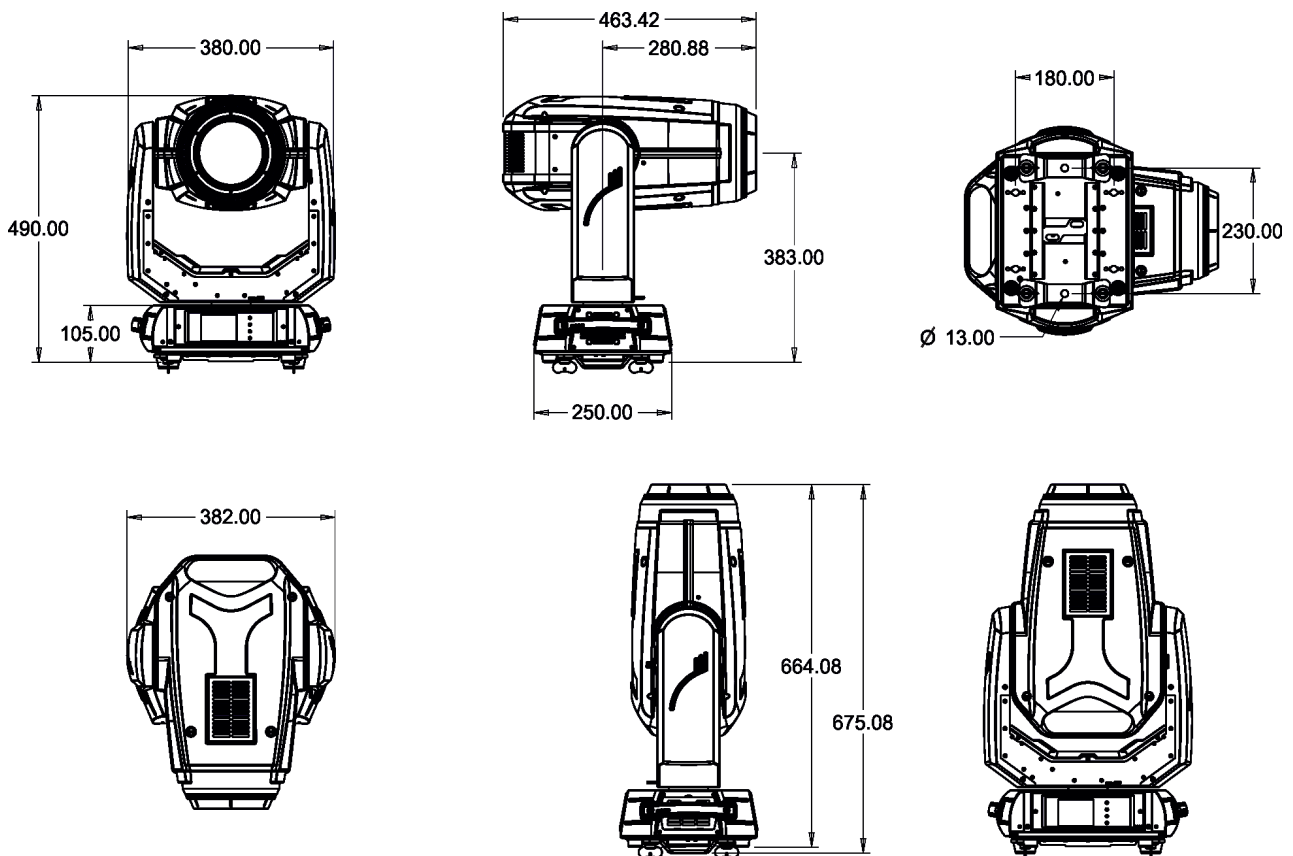
Connection

DMX data in/out: Locking 3-pin and 5-pin XLR
ArtNet: RJ 45 (Neutrik Ethercon)
AC power IN: Chassis connector Neutrik PowerCon, NAC3MPX

Accessories

1 x Omega adapter CL-regular 2 pcs in box (P/N 10980033)
1 x power cable

Optional Accessories

Frost 1° (exchange) - assembled (P/N 10980308)
Frost 10° (exchange) - assembled (P/N 10980309)
Frost 30° (exchange) - assembled (P/N 10980310)
Upgrade kit CRMX Univerzal 260 (P/N 99030100)
Doughty Trigger Clamp (P/N 17030386)
Safety wire 35 kg (P/N 99011963)

12. 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 good glass cleaning fluid is recommended, under no circumstances should alcohol or solvents be used!

DANGER !
Disconnect from the mains before starting any
maintenance work

The front objective lens will require weekly cleaning as smoke-fluid tends to building up residues, reducing the light-output very quickly. The cooling-fans should be cleaned monthly.
The interior of the fixture should be cleaned at least annually using a vacuum-cleaner or an air-jet.
Dichroic colour filters, gobo wheels and the internal lenses should be cleaned monthly.
Remove dust and dirt from the fans and cooling vents using a soft brush and vacuum-cleaner.

Important! Check the air filters periodically and clean before they become clogged!

Clean the air filters placed in the fixture bases. Use a vacuum cleaner, compressed air or you can wash them and put back dry.
After replacing the air filters, reset the elapsed time counter in the menu "Information" (Information--->Air Filters---> Elapsed Time).

Replacing the fuse.
Before replacing the fuse, unplug mains lead.
1. Remove the fuse holder on the rear panel of the base with a fitting screwdriver from the housing (anti-clockwise).
2. Remove the old fuse from the fuse holder.
3. Install the new fuse in the fuse holder (only the same type and rating).
4. Replace the fuseholder in the housing and fix it.

Checking plastic parts of the fixture.
The plastic parts of the fixture should be checked for damages and beginning cracks at least every two months. In addition, the plastic part of the front lens has to be checked mechanically (by means of movement by the plastic part) if it is firmly fastened to the fixture. If hint of a crack is found on some plastic part, do not use the fixture until the damaged part will be replaced.
Cracks or another damages of the plastic parts can be caused by the fixture transportation or manipulation and also ageing process may influence plastic materials.

This checking is necessary for both fixed installations and preparing fixtures for renting. Any free moving parts inside of the fixture head, cracked plastic or any plastic part of front lens not sitting properly in place need to be immediately replaced.

Example of a crack on the plastic cover (for illustrative purposes).
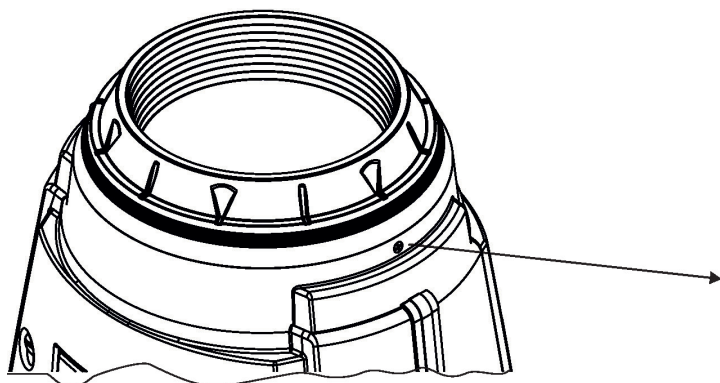
12.1 Disposing of the product

To preserve the environment please dispose or recycle this product at the end of its life according to the local regulations and codes.

13. ChangeLog

This section summarizes changes in the user manual.

Version of the manual	Date of issue	Description of changes
1.3	13/02/2016	DMX protocol ver. 1.4 (Quiet mode of fans added at channel 6)
1.4	04/04/2017	DMX protocol ver. 1.5 (Colours renamed on Virtual colour wheel)
1.5	17/01/2018	Optional accessories changed
1.6	30/01/2018	New photometric diagram
1.7	14/03/2018	Change in photometric diagram
1.8	03/07/2019	Check of plastic added (chapter Maintenance and cleaning)
1.9	18/09/2019	DMX protocol ver. 1.6 (RoboSpot Support added)
2.0	14/01/2022	Menu item LEDs ON Time removed
2.1	11/10/2023	Error messages changed

14. Photometric diagram

Beam angle 9° - Min. zoom
Total Output: 9628 lumens

	0	2793	698	310	175	111 Foot-candles (center)
	0	30060	7515	3340	1880	1200 Lux (center)

Beam opening (m)

9°

	0	5	10	15	20	25 Distance (m)
	0	0.8	1.6	2.4	3.1	3.9 Diameter (m)

Illuminance distribution
Distance=5m

(Lux)											(Foot-candles)
32000											2973
24000											2230
16000											1486
8000											743
0											0
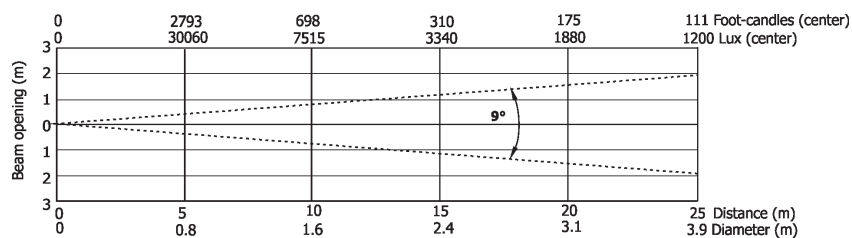
0.5 0.4 0.3 0.2 0.1 0 0.1 0.2 0.3 0.4 0.5
Diameter (m)
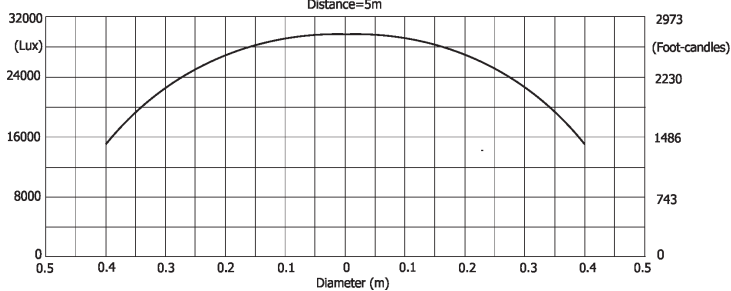
Beam angle 40° - Max. zoom
Total Output: 12040 lumens

	0	175	44	19	11	7 Foot-candles (center)
	0	1880	470	210	118	75 Lux (center)

Beam opening (m)

40°

	0	5	10	15	20	25 Distance (m)
	0	3.6	7.3	10.9	14.6	18.2 Diameter (m)

Illuminance distribution
Distance=5m

(Lux)											(Foot-candles)
2000											186
1500											139
1000											93
500											47
0											0

2.5 2.0 1.5 1.0 0.5 0 0.5 1.0 1.5 2.0 2.5
Diameter (m)

Mode/channel		DMX Value	Function	Type of control
1	**2**			
1	**1**		**Pan**	
		0 - 255	Pan movement by 540° (128=default)	proportional
2	**2**		**Pan Fine**	
		0 - 255	Fine control of pan movement (0=default)	proportional
3	**3**		**Tilt**	
		0 - 255	Tilt movement by 270° (128=default)	proportional
4	**4**		**Tilt fine**	
		0 - 255	Fine control of tilt movement (0=default)	proportional
5	**5**		**Pan/Tilt speed , Pan/Tilt time**	
		0	Standard mode (0=default)	step
		1	Max. Speed Mode	step
			Pan/Tilt speed mode	
		2 - 255	Speed from max. to min.	proportional
			Pan/Tilt time mode	
		2 - 255	Time from 0.2 s to 25.5 sec.	proportional
6	**6**		**Power/Special functions**	
		0 - 9	Reserved (0=default)	
			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 30/25 must be at range: 0-31 DMX). Corresponding menu items are temporarily overriden except DMX Input.	
		10-14	DMX input: Wired DMX *	step
		15-19	DMX input: Wireless DMX *	step
			* function is active only10 seconds after switching the fixture on	
		20-24	Graphic display On	step
		25-29	Graphic display Off	step
		30-49	Reserved	
		50-54	Dimmer curve: Square law	step
		55-59	Dimmer curve: Linear	step
		60-64	Fans mode: Auto	step
		65-69	Fans mode: High	step
		70-89	Reserved	
		90 - 94	Pan/Tilt speed mode	step
		95-99	Pan/Tilt time mode	step
		100 - 104	Blackout while pan/tilt moving	step
		105 -109	Disabled blackout while pan/tilt moving	step
		11 0-114	Blackout while colour wheels moving	step
		115 -119	Disabled blackout while colour wheels moving	step
		120-139	Reserved	step
			To activate following functions, stop in DMX value for at least 3 seconds. Corresponding menu items are temporarily overrided.	
		140 - 149	Pan/Tilt reset	step
		150 - 159	Colour system reset	step
		160 - 169	Gobo wheels + iris reset	step
		170 - 179	Reserved	
		180 - 189	Zoom/focus/frost/prism reset	step

Robin Viva CMY - DMX protocol

Version 1.6 — **Mode 1** - Standard 16 bit, **Mode 2** - Reduced 8 bit

[above header: DMX protocol]

Mode/channel		DMX Value	Function	Type of control
1	2			
		190 - 199	Reserved	
		200 - 209	Total 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
		225-239	Reserved	
		240	Disable "Quiet mode"	step
		241 - 255	"Quiet mode" - fan noise control from min. to max.	proportional
7	7		**Colour wheel**	
			Continual positioning	
		0	Open/white (0=default)	proportional
		18	Deep red	proportional
		37	Green	proportional
		55	CTO	proportional
		73	Orange	proportional
		91	Lavender	proportional
		109	Congo blue	proportional
		128-129	Open/white	proportional
			Positioning	
		130-139	Deep red	step
		140-149	Green	step
		150-159	CTO	step
		160-169	Orange	step
		170-179	Lavender	step
		180-189	Congo blue	step
		190 - 215	Forwards rainbow effect from fast to slow	proportional
		216 - 217	No rotation	step
		218 - 243	Backwards rainbow effect from slow to fast	proportional
		244 - 249	Random colour selection by audio control	step
			(Set microphone sensitivity in menu „Personality")	
		250 - 255	Auto random colour selection from fast to slow	proportional
8	*		**Colour wheel - fine positioning**	
		0 - 255	Fine positioning (0=default)	proportional
9	8		**Cyan**	
		0 - 255	Cyan from min. saturation --> full cyan (0=default)	proportional
10	9		**Magenta**	
		0 - 255	Magenta from min. saturation --> full magenta (0=default)	proportional
11	10		**Yellow**	
		0 - 255	Yellow from min. saturation --> full yellow (0=default)	proportional
12	11		**Virtual colour wheel**	
		0	No function (0=default)	step
		1-2	Filter 4 (Medium Bastard Amber)	step
		3-4	Filter 10 (Medium Yellow)	step
		5-6	Filter 19 (Fire)	step
		7-8	Filter 24 (Scarlet)	step

Mode/channel		DMX	Function	Type of
1	2	Value		control
		9-10	Filter 58 (Lavender)	step
		11-12	Filter 68 (Sky Blue)	step
		13-14	Filter 71 (Tokyo Blue)	step
		15-16	Filter 79 (Just Blue)	step
		17-18	Filter 88 (Lime Green)	step
		19-20	Filter 90 (Dark Yellow Green)	step
		21-22	Filter 100 (Spring Yellow)	step
		23-24	Filter 101 (Yellow)	step
		25-26	Filter 102 (Light Amber)	step
		27-28	Filter 103 (Straw)	step
		29-30	Filter 104 (Deep Amber)	step
		31-32	Filter 105 (Orange)	step
		33-34	Filter 781 (Terry Red)	step
		35-36	Filter 111 (Dark Pink)	step
		37-38	Filter 115 (Peacock Blue)	step
		39-40	Filter 505 (Sally Green)	step
		41-42	Filter 117 (Steel Blue)	step
		43-44	Filter 118 (Light Blue)	step
		45-46	Filter 724 (Ocean Blue)	step
		47-48	Filter 725 (Old Steel Blue	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 139 (Primary Green)	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 158 (Deep Orange)	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 179 (Chrome Orange)	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

Mode/channel		DMX	Function	Type of
1	2	Value		control
		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 205 (Half C.T. Orange)	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 715 (Cabana Blue)	step
		129-130	Filter 778 (Millennium Gold)	step
		131-132	Filter 328 (Follies Pink)	step
		133-255	Reserved	
13	12		**Effect Speed**	
			Speed of CMY & rot. gobo & static gobo selection	
		0-255	Speed of CMY and rot.gobo/static gobo selection from max. to min.	proportional
			(0=default)	proportional
14	13		**Colour wheel + CMY time**	
		0	Function is off (0=default)	step
		1 - 255	Time of Colour wheel +CMY movement (0.1sec-->25.5sec.)	proportional
15	14		**Stat. Gobo+Zoom+Focus+Frost+Iris+Prism time**	
		0	Function is off (0=default)	step
		1 - 255	Time of stat. Gobo, zoom, focus,iris and frost movement (0.1 sec-->25.5 sec.)	proportional
		1-50	Time of prism movement (0.1 sec-->5 sec.)	proportional
16	15		**Static gobo wheel**	
		0-7	Open/hole (0=default)	step
		9-17	Gobo 1	step
		18-26	Gobo 2	step
		27-35	Gobo 3	step
		36-44	Gobo 4	step
		45-53	Gobo 5	step
		54-62	Gobo 6	step
		63-71	Gobo 7	step
		72-80	Gobo 8	step
		81-91	Gobo 9	step
			Shaking gobos from slow to fast	
		92-103	Gobo 1	proportional
		104-115	Gobo 2	proportional
		116-127	Gobo 3	proportional
		128-139	Gobo 4	proportional
		140-151	Gobo 5	proportional
		152-163	Gobo 6	proportional
		164-175	Gobo 7	proportional
		176-187	Gobo 8	proportional
		188-199	Gobo 9	proportional

DMX protocol

| Mode/channel | | DMX | Function | Type of |
1	2	Value		control
		200 - 201	Open/hole	step
		202 - 222	Forwards gobo wheel rotation from fast to slow	proportional
		223 - 243	Backwards gobo wheel rotation from slow to fast	proportional
		244 - 249	Random gobo selection by audio control	step
			(Set microphone sensitivity in menu „Personality")	
		250 - 255	Auto random gobo selection from fast to slow	proportional
17	16		**Rotating gobo wheel**	
			In the range of 0-59 DMX the gobo selection speed can be controlled by the Effect Speed channel.	
			Index - set indexing on channel 18/17	
		0-3	Open/hole (0=default)	step
		4-7	Gobo 1	step
		8-11	Gobo 2	step
		12-15	Gobo 3	step
		16-19	Gobo 4	step
		20-23	Gobo 5	step
		24-27	Gobo 6	step
		28-31	Gobo 7	step
			Rotation - set rotation on channel 18/17	
		32-35	Gobo 1	step
		36-39	Gobo 2	step
		40-43	Gobo 3	step
		44-47	Gobo 4	step
		48-51	Gobo 5	step
		52-55	Gobo 6	step
		56-59	Gobo 7	step
			Shaking gobos from slow to fast	
			Index - set indexing on channel 18/17	
		60 - 69	Gobo 1	proportional
		70 - 79	Gobo 2	proportional
		80 - 89	Gobo 3	proportional
		90 - 99	Gobo 4	proportional
		100 - 109	Gobo 5	proportional
		110 - 119	Gobo 6	proportional
		120 - 129	Gobo 7	proportional
			Shaking gobos from slow to fast	
			Rotation - set rotation on channel 18/17	
		130 - 139	Gobo 1	proportional
		140 - 149	Gobo 2	proportional
		150 - 159	Gobo 3	proportional
		160 - 169	Gobo 4	proportional
		170 - 179	Gobo 5	proportional
		180 - 189	Gobo 6	proportional
		190 - 199	Gobo 7	proportional
		200 - 201	Open/hole	step
		202 - 222	Forwards gobo wheel rotation from fast to slow	proportional
		223 - 243	Backwards gobo wheel rotation from slow to fast	proportional
		244 - 249	Random gobo selection by audio control	step

Mode/channel		DMX Value	Function	Type of control
1	**2**			
			(Set microphone sensitivity in menu „Personality")	
		250 - 255	Auto random gobo selection from fast to slow	proportional
18	**17**		**Rot. Gobo indexing/rotation**	
			Gobo indexing - set position on channel 17/16	
		0 - 255	Gobo indexing	proportional
			Gobo rotation - set position on channel 17/16	
		0	No rotation	step
		1 - 127	Forwards gobo rotation from fast to slow	proportional
		128	No rotation (128=default)	step
		129 - 255	Backwards gobo rotation from slow to fast	proportional
19	*****		**Rot. Gobo indexing/rotation - fine**	
		0-255	Fine indexing/rotation (0=default)	proportional
20	**18**		**Prism**	
		0 - 19	Open position/hole (0=default)	step
		20 - 127	3-facet rotating prism	step
			Prism/gobo macros	
		128 - 135	Macro 1	step
		136 - 143	Macro 2	step
		144 - 151	Macro 3	step
		152 - 159	Macro 4	step
		160 - 167	Macro 5	step
		168 - 175	Macro 6	step
		176 - 183	Macro 7	step
		184 - 191	Macro 8	step
		192 - 199	Macro 9	step
		200 - 207	Macro 10	step
		208 - 215	Macro 11	step
		216 - 223	Macro 12	step
		224 - 231	Macro 13	step
		232 - 239	Macro 14	step
		240 - 247	Macro 15	step
		248 - 255	Macro 16	step
21	**19**		**Prism rotation**	
		0	No rotation	step
		1 - 127	Forwards rotation from fast to slow	proportional
		128	No rotation (128= default)	step
		129-255	Backwards rotation from slow to fast	proportional
22	**20**		**Frost**	
		0	Open (0=default)	step
		1 - 179	Frost from 0% to 100%	proportional
		180 - 189	100% frost	step
		190 - 211	Pulse closing from slow to fast	proportional
		212 - 233	Pulse opening from fast to slow	proportional
		234 - 255	Ramping from fast to slow	proportional
23	**21**		**Iris**	
		0	Open (0=default)	step
		1 - 179	From max.diameter to min.diameter	proportional
		180 - 191	Closed	step

Mode/channel		DMX Value	Function	Type of control
1	**2**			
			Pulse effects with Iris blackout:	
		192 -219	Pulse opening from slow to fast	proportional
		220 - 247	Pulse closing from fast to slow	proportional
		248 - 249	Random pulse opening (fast)	step
		250 - 251	Random pulse opening (slow)	step
		252 - 253	Random pulse closing (fast)	step
		254 - 255	Random pulse closing (slow)	step
24	*****		**Iris - fine**	
		0 - 255	Fine iris movement (0=default)	proportional
25	**22**		**Zoom**	
		0 - 255	Zoom from max. to min.beam angle (128=default)	proportional
26	*****		**Zoom - fine**	
		0-255	Fine zooming (0=default)	proportional
27	**23**		**Focus**	
		0 - 255	Continuous adjustment from far to near (128=default)	proportional
28	*****		**Focus - fine**	
		0- 255	Fine focusing (0=default)	proportional
29	**24**		**Reserved**	
			Reserved for future functions	
30	**25**		**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	proportional
		192 - 223	Random strobe-effect from slow to fast	proportional
		224 - 255	Shutter open	step
31	**26**		**Dimmer intensity**	
		0 - 255	Dimmer intensity from 0% to 100% (0=default)	proportional
32	*****		**Dimmer intensity - fine**	
		0 - 255	Fine dimming (0=default)	proportional

Robin Viva CMY - colours on Virtual Colour Wheel				
Colour name	Cyan (DMX)	Magenta (DMX)	Yellow (DMX)	Colour Wheel (DMX)
Filter 4 (Medium Bastard Amber)	0	105	103	152
Filter 10 (Medium Yellow)	0	0	198	152
Filter 19 (Fire)	0	255	0	164
Filter 24 (Scarlet)	0	255	224	0
Filter 58 (Lavender)	19	171	105	172
Filter 68 (Sky Blue)	255	79	0	152
Filter 71 (Tokyo Blue)	255	0	0	181
Filter 79 (Just Blue)	255	61	130	172
Filter 88 (Lime Green)	48	0	192	0
Filter 90 (Dark Yellow Green)	255	38	224	0
Filter 100 (Spring Yellow)	32	117	204	0
Filter 101 (Yellow)	0	139	227	0
Filter 102 (Light Amber)	0	57	183	159
Filter 103 (Straw)	0	131	166	0
Filter 104 (Deep Amber)	0	162	229	0
Filter 105 (Orange)	0	191	255	0
Filter 781 (Terry Red)	0	255	235	0
Filter 111 (Dark Pink)	0	198	178	0
Filter 115 (Peacock Blue)	247	0	183	152
Filter 505 (Sally Green)	45	23	198	0
Filter 117 (Steel Blue)	105	6	132	0
Filter 118 (Light Blue)	230	63	152	0
Filter 724 (Ocean Blue)	212	0	153	156
Filter 725 (Old Steel Blue	134	73	140	0
Filter 121 (Filter Green)	133	0	193	0
Filter 128 (Bright Pink)	0	255	118	153
Filter 131 (Marine Blue)	193	76	173	0
Filter 132 (Medium Blue)	255	32	62	150
Filter 134 (Golden Amber)	0	170	210	150
Filter 135 (Deep Golden Amber)	0	251	255	150
Filter 136 (Pale Lavender)	83	98	0	158
Filter 137 (Special Lavender)	145	117	0	158
Filter 138 (Pale Green)	54	72	173	0
Filter 139 (Primary Green)	255	180	255	0
Filter 141 (Bright Blue)	255	87	146	0
Filter 147 (Apricot)	0	178	205	0
Filter 148 (Bright Rose)	0	255	190	255
Filter 152 (Pale Gold)	0	92	101	157
Filter 154 (Pale Rose)	33	96	84	157
Filter 157 (Pink)	0	189	178	157
Filter 158 (Deep Orange)	0	198	255	157
Filter 162 (Bastard Amber)	0	86	98	157
Filter 164 (Flame Red)	0	255	243	157
Filter 165 (Daylight Blue)	219	0	111	156
Filter 169 (Lilac Tint)	81	63	0	156
Filter 170 (Deep Lavender)	120	142	19	150

Colour name	Cyan (DMX)	Magenta (DMX)	Yellow (DMX)	Colour Wheel (DMX)
Filter 172 (Lagoon Blue)	255	0	187	173
Filter 179 (Chrome Orange)	0	176	255	0
Filter 180 (Dark Lavender)	194	203	0	151
Filter 181 (Congo Blue)	0	0	155	182
Filter 197 (Alice Blue)	201	110	42	157
Filter 201 (Full C.T. Blue)	167	7	103	157
Filter 202 (Half C.T. Blue)	131	124	158	0
Filter 203 (Quarter C.T. Blue)	137	136	164	0
Filter 204 (Full C.T. Orange)	0	167	204	0
Filter 205 (Half C.T. Orange)	0	144	182	0
Filter 206 (Quarter C.T. Orange)	0	139	164	0
Filter 247 (Filter Minus Green)	33	167	165	0
Filter 248 (Half Minus Green)	26	144	153	0
Filter 281 (Three Quarter C.T. Blue)	106	95	127	0
Filter 285 (Three Quarter C.T. Orange)	0	94	150	152
Filter 352 (Glacier Blue)	223	0	130	152
Filter 353 (Lighter Blue)	186	0	155	0
Filter 715 (Cabana Blue)	254	195	0	155
Filter 778 (Millennium Gold)	0	216	255	0
Filter 328 (Follies Pink)	36	221	73	156