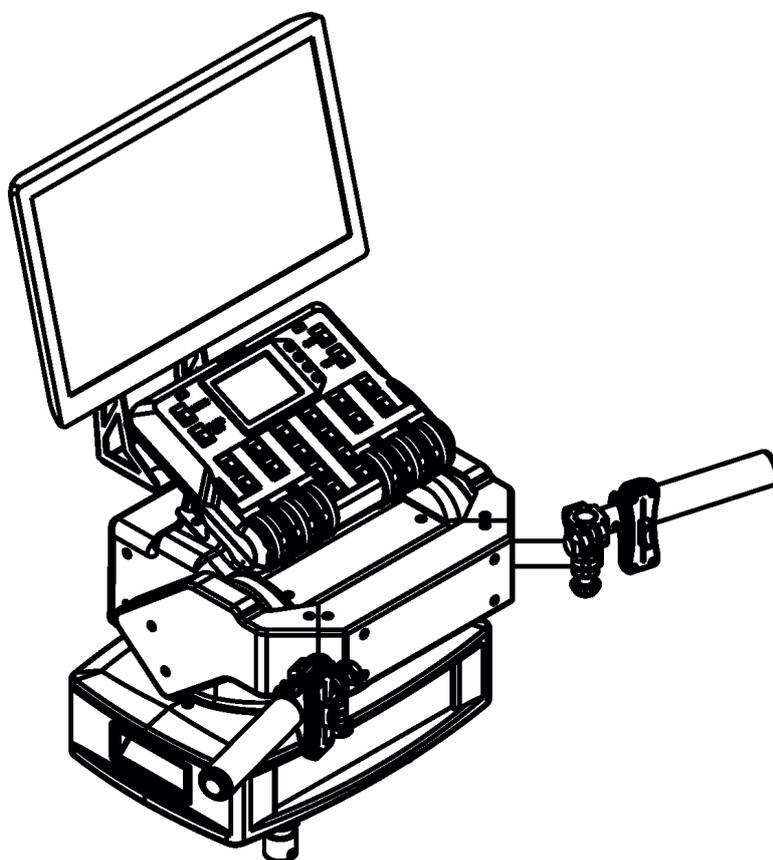

ROBE

RoboSpot Base Station Set



USER MANUAL

Version 1.4

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

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**FOR YOUR OWN SAFETY, PLEASE READ THIS USER MANUAL CAREFULLY
BEFORE YOU INSTALL THE PRODUCT .**

1. Safety instructions

CAUTION!
The RoboSpot was designed for indoor use only.
The product is for professional use only, it is not for household use.

This product 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 warnings written in this manual.

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 a fuse, or any part.

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.

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.

Do not shake the fixture. 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, dust or entertainment smoke (haze)

Air vents and slots in the fixture are provided for ventilation, to ensure reliable operation of the device and to protect it from overheating.

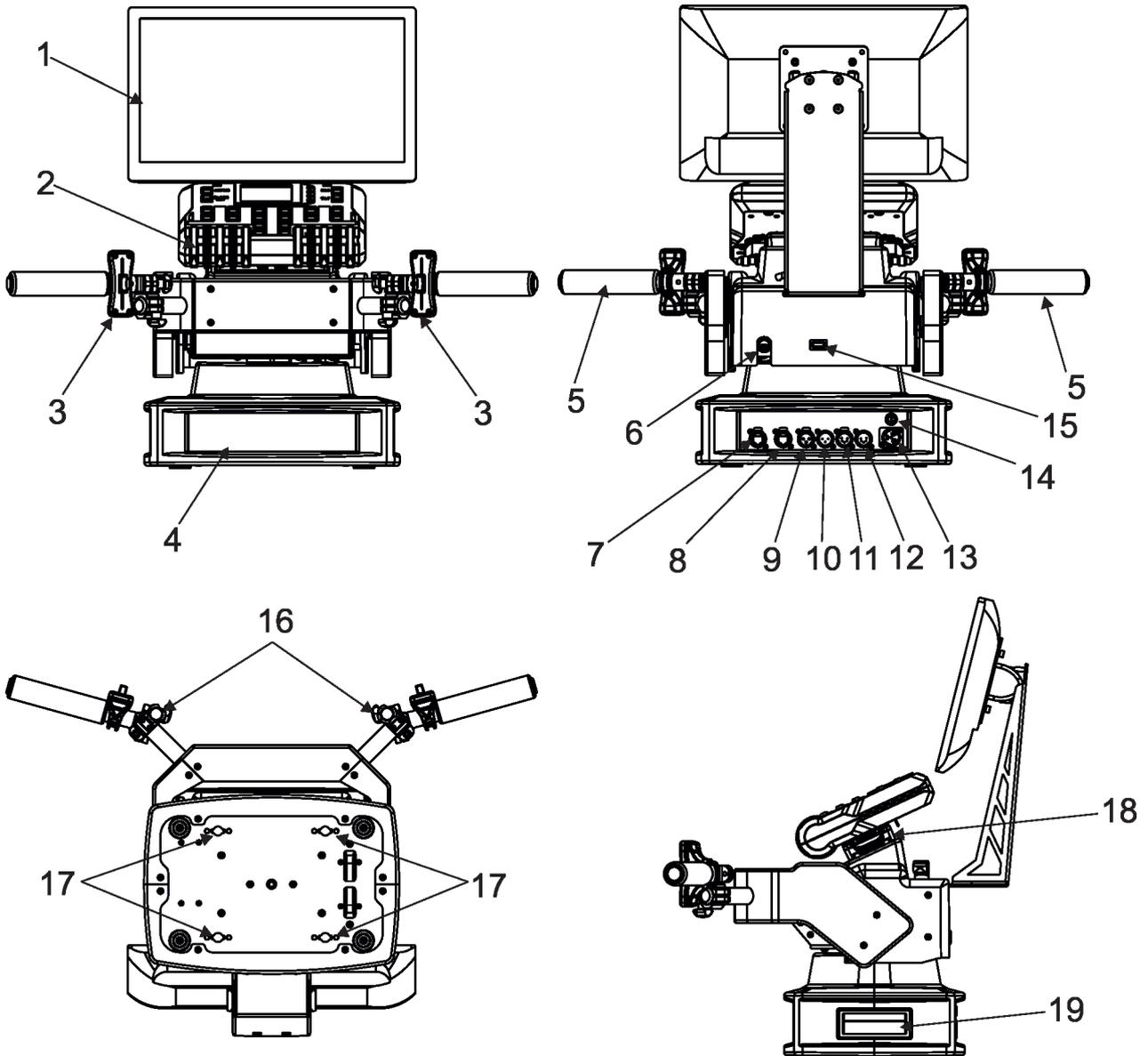
Operate the fixture only after having familiarized with its functions. Do not permit operation by persons not qualified for operating the fixture. Most damages are the result of unprofessional operation!

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!

2. Control elements of the RoboSpot

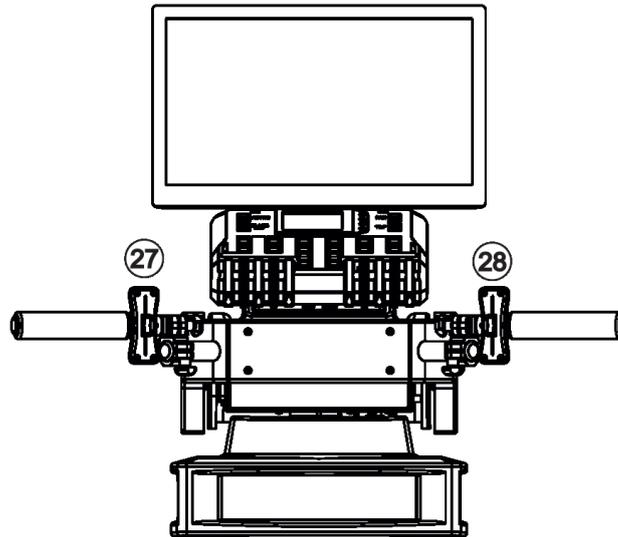
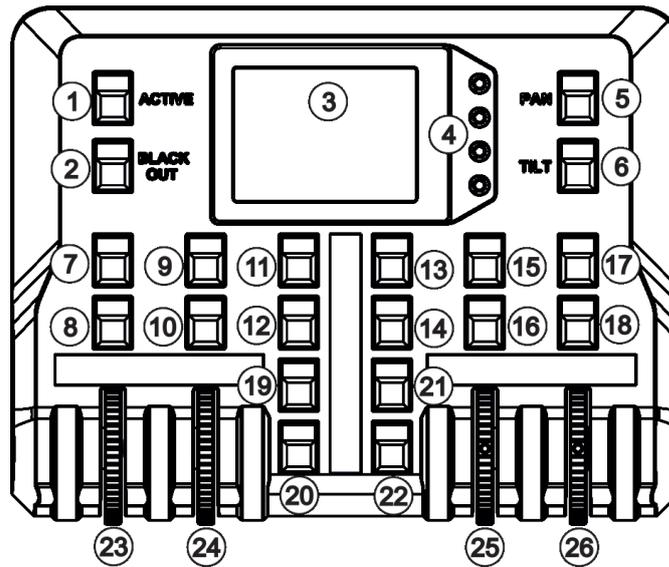
2.1 RoboSpot



- 1 - Monitor
- 2 - FollowSpot Controller
- 3 - Faders
- 4 - Base
- 5 - Control handlebars
- 6 - Monitor supply
- 7 - Camera IN (RJ45)
- 8 - Ethernet (RJ45)
- 9- (DMX Out (3-pin XLR)
- 10 - (DMX In (3-pin XLR)
- 11- (DMX Out (5-pin XLR)
- 12 - (DMX In (5-pin XLR)
- 13 - Power (Neutrik PowerCon)
- 14 - Fuse holder
- 15 - HDMI output for monitor
- 16 - Adjusting locks for handles

- 17 - Apertures for 1/4 turn locks
- 18 - Base of the FollowSpot Controller
- 19 - Manipulation handles

2.2 FollowSpot Controller



- | | |
|---|--|
| 1 - Activating button (activates the FollowSpot Controller) | 13 - Preset button |
| 2 - BlackOut button | 14 - Preset button |
| 3 - Graphic touch screen | 15 - Preset button |
| 4 - Control buttons for screen | 16 - Activating button for rotary encoder (25) |
| 5 - Pan button(enables/disables pan motor) | 17 -Preset button |
| 6 - Tilt button(enables/disables tilt motor) | 18 - Activating button for rotary encoder (26) |
| 7 - Preset button | 19 - Preset button |
| 8 - Activating button for rotary encoder (23) | 20 - Preset button |
| 9 - Preset button | 21 - Preset button |
| 10 - Activating button for rotary encoder (24) | 22 - Preset button |
| 11 - Preset button | 23 - Rotary encoder |
| 12 - Preset button | 24 - Rotary encoder |
| | 25 - Rotary encoder |
| | 26 - Rotary encoder |
| | 27 - Fader |
| | 28 - Fader |

3. Installation

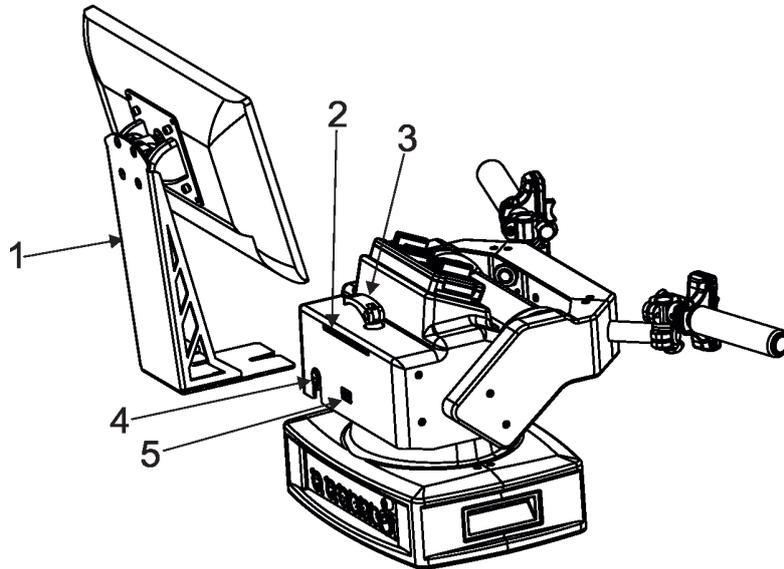
The RoboSpot must be installed by a qualified worker in accordance with all national and local electrical and construction codes and regulations.

Monitor installation

1. Insert the monitor holder (1) into the slot (2) of the RoboSpot and secure it by means of the lock (3). The lock must be fully screwed and reclined. Check the monitor is securely fastened.

2. Connect power (4) and HDMI output (5) of the RoboSpot with the LCD monitor.

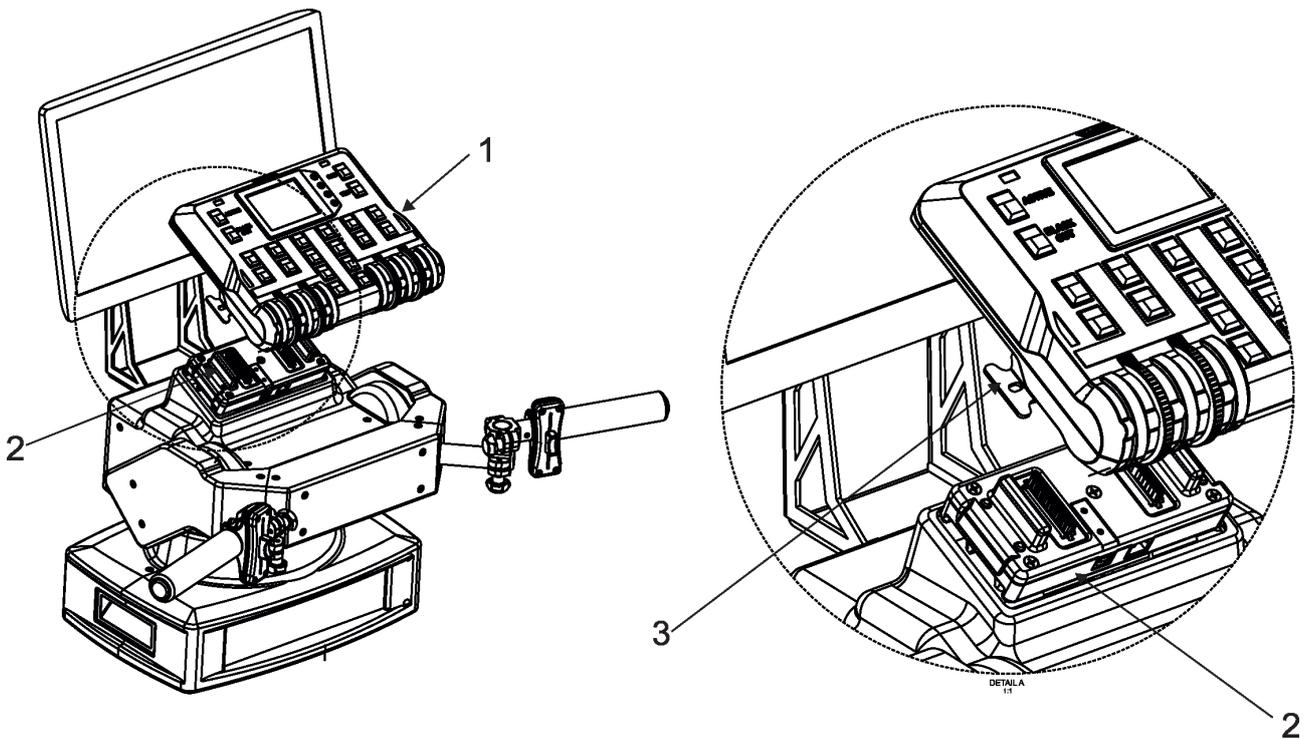
Note: The HDMI connection has to be carried out before connecting the RoboSpot to mains.



FollowSpot Controller installation

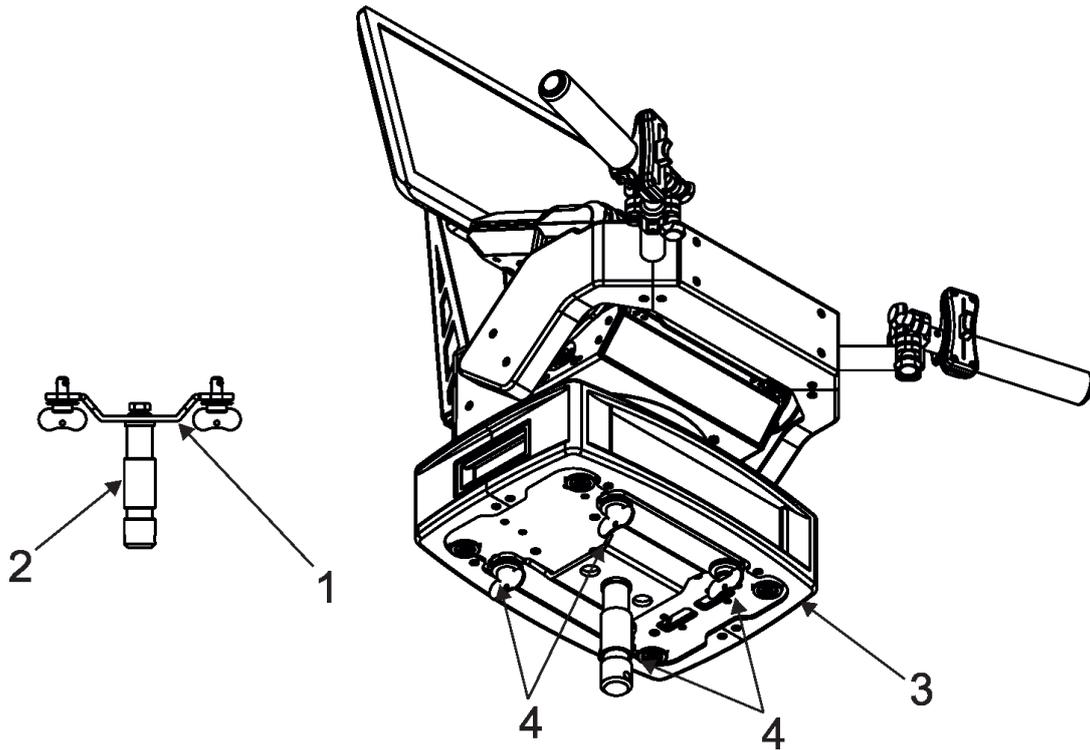
1. Place the FollowSpot Controller (1) on the FollowSpot Controller base (2). Connectors on both parts have to snap each other. Two locks (3) have to be pressed during placing (removing) the FollowSpot Controller (1).

2. If you need to place the RoboSpot on a tripod, you have to install an adaptor.



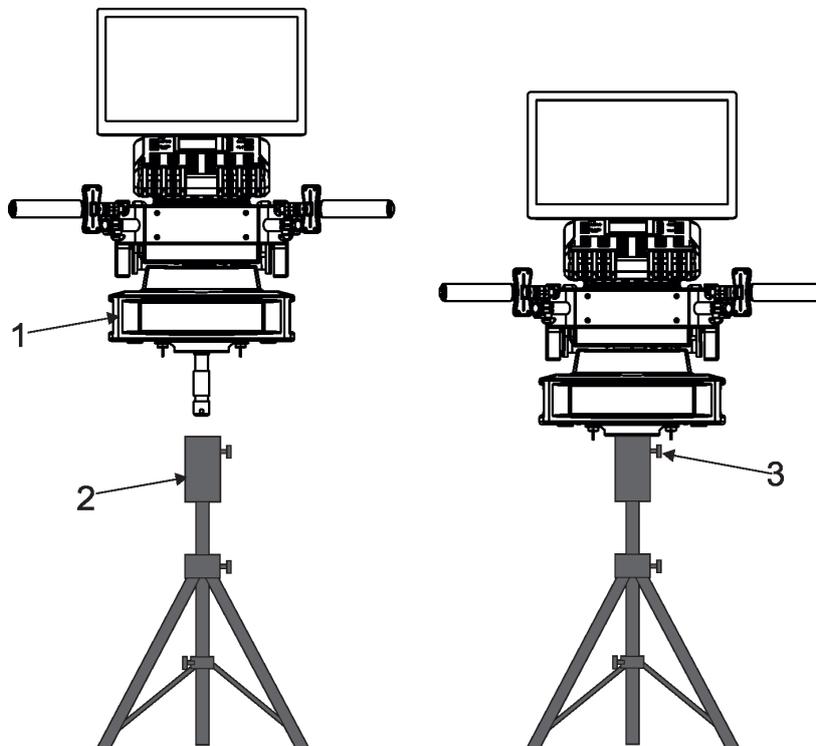
Adaptor installation

1. Fasten the adaptor (1) with spigot (2) to the base (3) of the RoboSpot by means of the four quarter -turn locks (4). Check the adaptor is fastened properly to the fixture base.



Tripod installation

1. Insert the RoboSpot (1) with installed adaptor to the tripod (2) and secure it by means of securing lock (locks) (3) of the tripod (way of securing of the spigot into the tripod depends on type of used tripod).



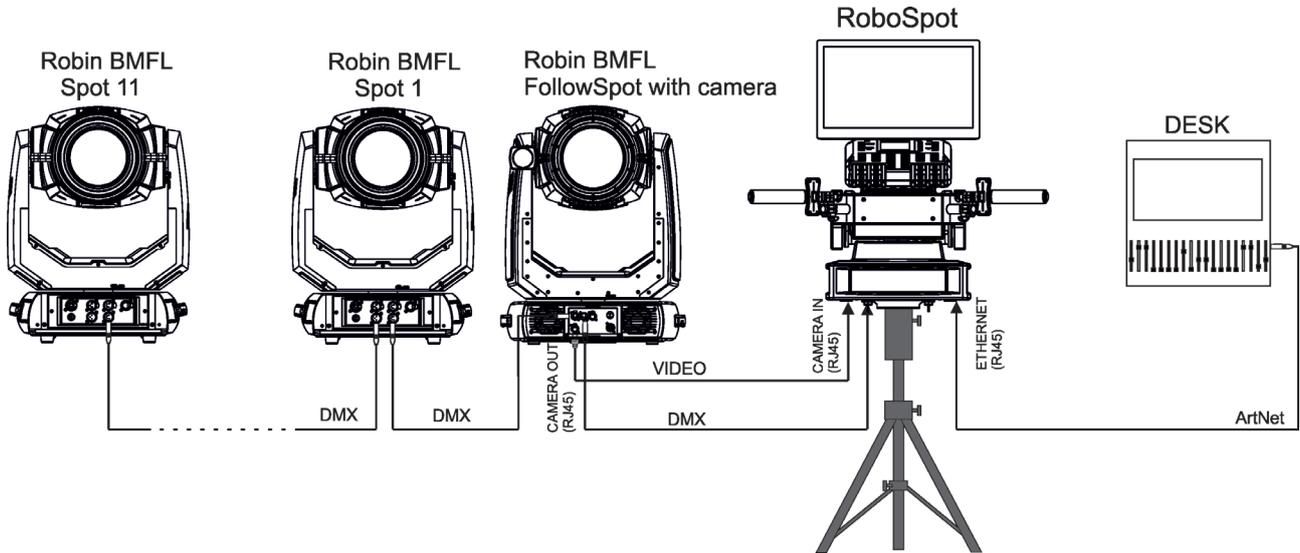
4. RoboSpot connection

After installing the RoboSpot, connect it with the ROBIN BMFL FollowSpot (or the RoboSpot MotionCamera), another BMFL fixtures and a control desk.

You do not need to patch the RoboSpot, but fixtures connected to the RoboSpot have to be patched

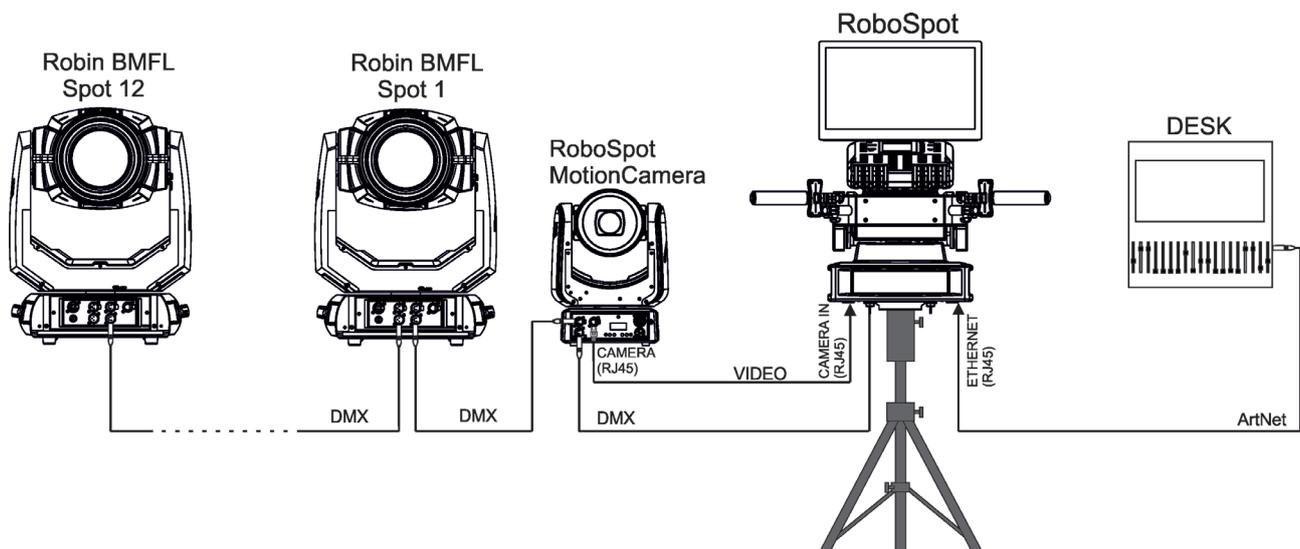
Example 1. Connection with the ROBIN BMFL FollowSpot

Up to 11 ROBIN BMFL fixtures (Spot/Blade/WashBeam) can be connected to the ROBIN BMFL FollowSpot (with camera).



Example 2. Connection with the RoboSpot MotionCamera

Up to 12 ROBIN BMFL fixtures (Spot/Blade/WashBeam) can be connected to the RoboSpot MotionCamera.



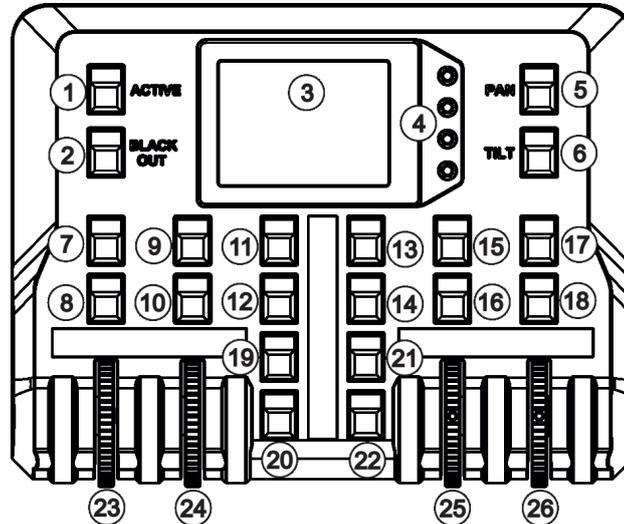
Note: Fixtures connected to the RoboSpot and are not supported by the RoboSpot will be ignored by the RoboSpot.

5. Operation

After installing the RoboSpot and connecting with the ROBIN BMFL FollowSpot (RoboSpot MotionCamera), connect the RoboSpot to mains.

Press the button ACTIVE (1) in order to activate the FollowSpot Controller. By pressing the button PAN (5) and TILT (6) you can activate/deactivate of the pan/tilt movement of the ROBIN BMFL FollowSpot (and all connected BMFL fixtures).

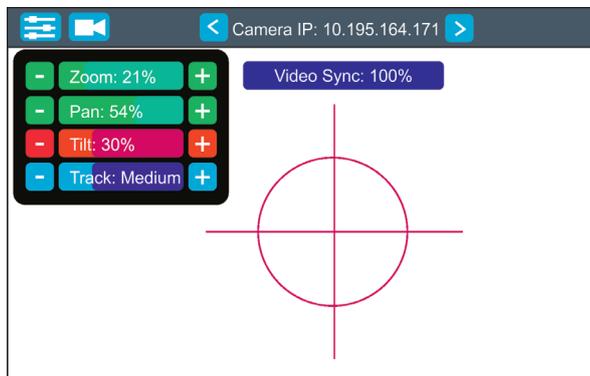
The button BLACK OUT (2) closes light output of the ROBIN BMFL FollowSpot (and also all connected BMFL fixtures to the RoboSpot).



5.1 Functions mapping

After switching the fixture on, touch the Sliders button on the RoboSpot touch screen and use the pan and tilt sliders to set desired position of the ROBIN BMFL FollowSpot's head.

Sliders button



Sensitivity of pan/tilt movement:

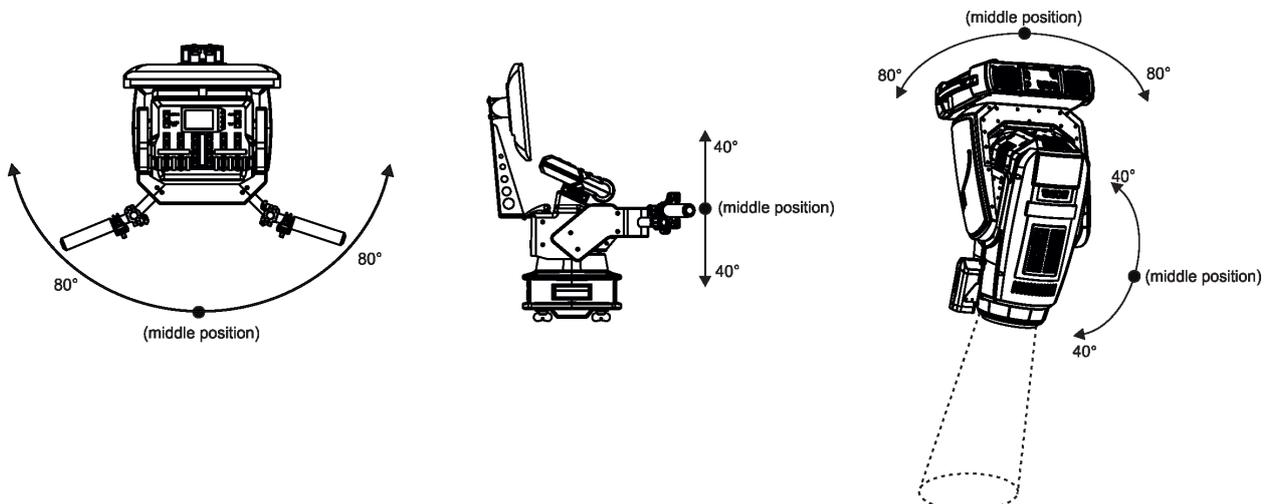
High level (most accurate) - green slider

Medium level - yellow slider

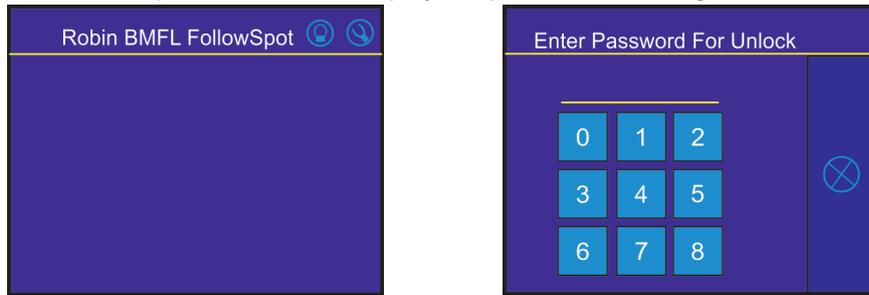
Low level - red slider

In order to switch sensitivity of pan or tilt movement to desired level, press and hold the PAN (5) or TILT (6) button until the colour of fader is changed.

It is suitable to set the RoboSpot handlebars to the "middle" position and after that set the pan and tilt position of the moving head by the sliders on the RoboSpot touch screen.



Touch the icon  on the FollowSpot Controller to display the password entering screen:



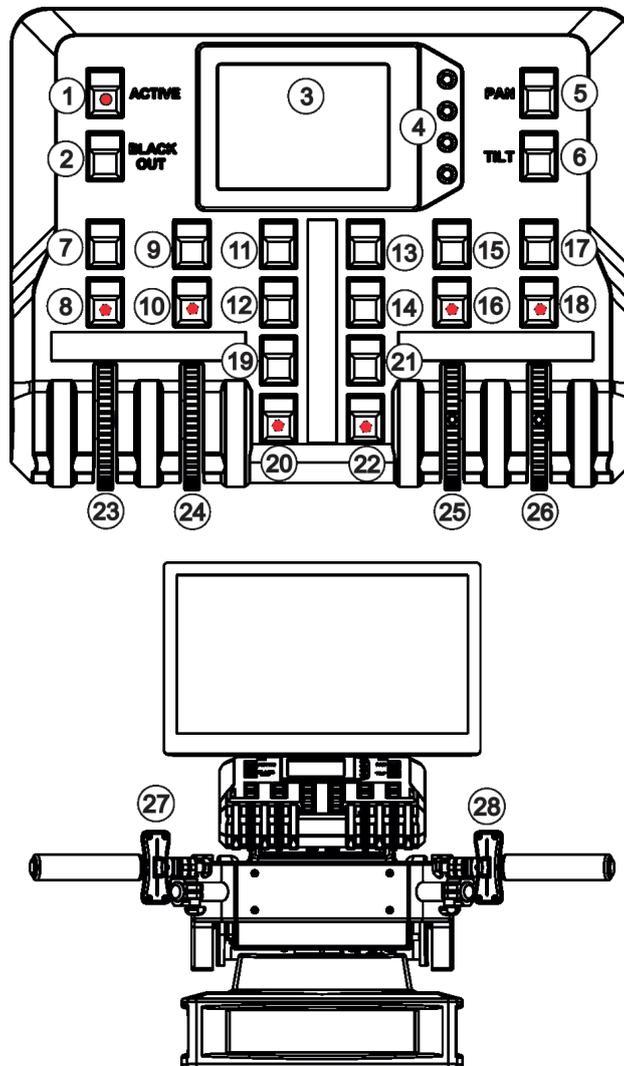
Enter the password (5242) to enter the main menu of the FollowSpot Controller. The password prevents unauthorized person from changing setting of the FollowSpot Controller.

Enter the menu "Functions Mapping". The list of available effects will appear:

If the message "Please Activate FollowSpot Controller!" will appear, press the ACTIVE button (1) on the Follow Spot Controller.

To assign an effect to the rotary encoder and faders

1. Touch desired effect. Buttons (8/10/16/18) which activate rotary encoders (23/24/25/26) and buttons (20/22), which matches faders (27/28) will start to flash.



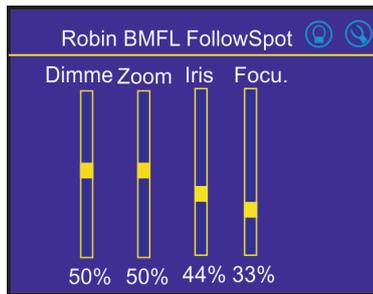
2. Press desired button and selected effect will be assigned to its rotary encoder (fader).

Assigned effect is displayed in a yellow colour, free effects stay in a white colour.

3. Repeat steps 1 and 2 for needed effects.

4. Touch the [cancel] icon and than [back arrow] icon. The screen with effect faders will appear.

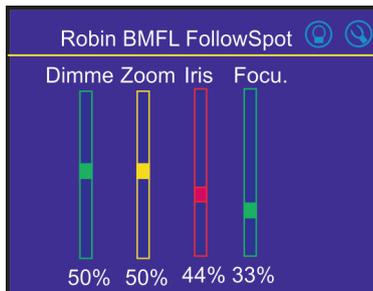
E.g.



Only effects assigned to the rotary encoders will appear on this screen. Effects assigned to the faders will not be shown.

Sensitivity of the rotary encoders assigned to the effects can be set at three levels: low, medium and high. The levels of the sensitivity are marked in colour on the screen:

low level - red slider
medium level - yellow slider
high level (most accurate-
green slider)



In order to switch an rotary encoder to desired level of sensitivity, press and hold its activating button (8/10/16/18) until the colour of fader is changed.

Effects assigned to the four rotary encoders and two faders on the handlebars have a priority over DMX values coming from a DMX controller.

To control desired effect

1. Use its slider on the screen or press the activating button for its rotary encoder and use this rotary encoder or use a corresponding fader.

To release an effect from the rotary encoder (fader)

1. Touch desired effect from the list of effects in the menu "Functions Mapping".

2. Touch the option "Unlink".

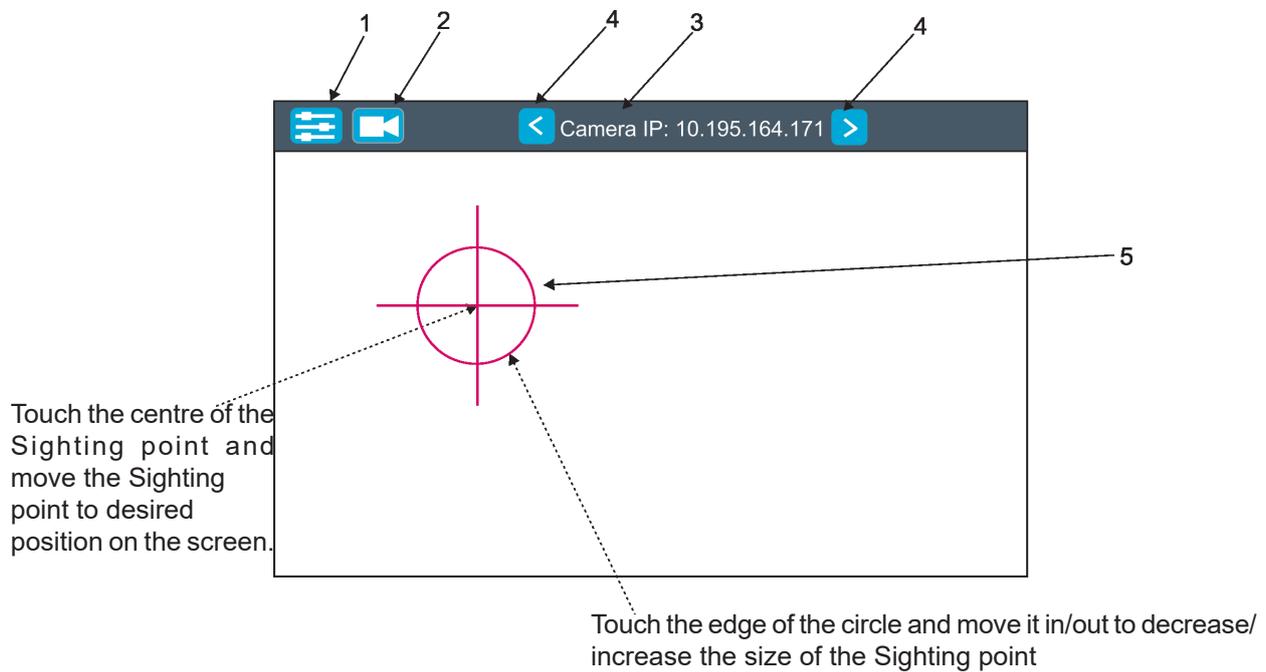
3. The effect will be displayed in a white colour.

The item "All" allows you to release all assigned effects at one go.

5.2 LCD monitor screen operation

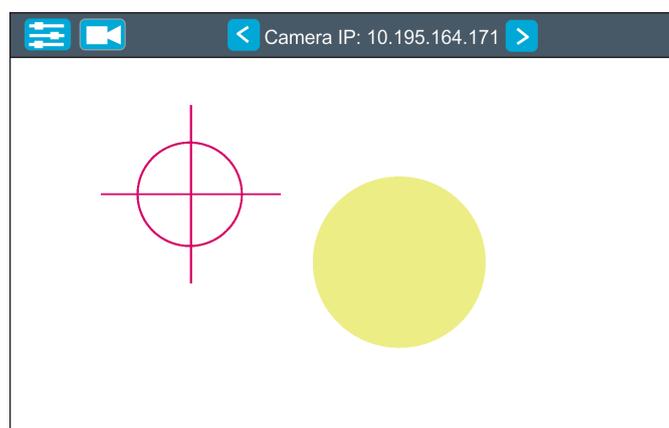
The RoboSpot is equipped with the 15.6" (10-point) touch screen with max. resolution 1366 x 768.

1. After switching the RoboSpot and the ROBIN BMFL FollowSpot (or the RoboSpot MotionCamera) on, image scanned by the camera is displayed.

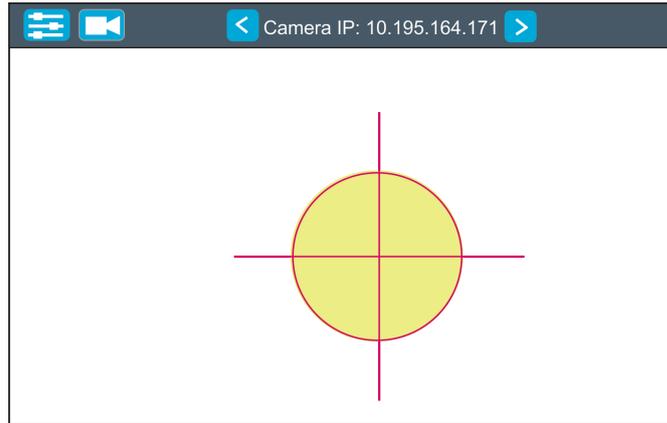


- 1- Slider button-after touching the button, sliders for camera zoom, pan/tilt and Track will appear
- 2- Camera button - after touching the button, options Rotate Picture and Factory Reset will appear
- 3- IP address of selected camera
- 4 - Camera selection buttons
- 5 - Sighting point

2. After switching the ROBIN BMFL FollowSpot lamp on and adjusting its beam (zoom, focus, dimmer....), aim the beam to desired position by means of the FollowSpot Controller handlebars.

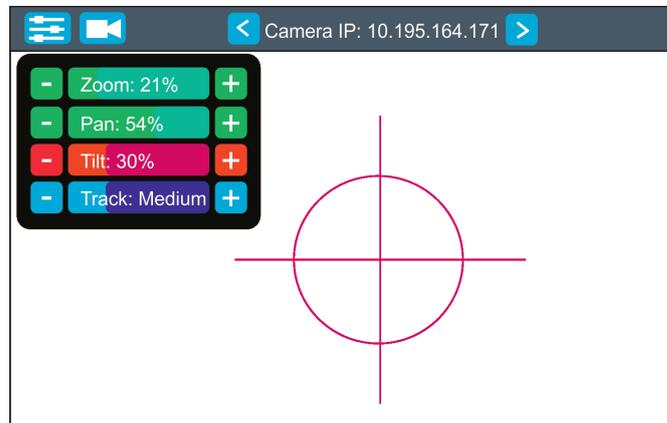


2. Move the sighting point on the beam image. Now, when you move with the control handlebars, both beam image and sighting point on the screen will move synchronously. It is useful in case that the light output from the fixture is closed and by means of the sighting point you approximately know the position of the light beam.



Note: if you change a camera zoom, you have to move and adjust the sighting point on the beam image again.

Sliders button



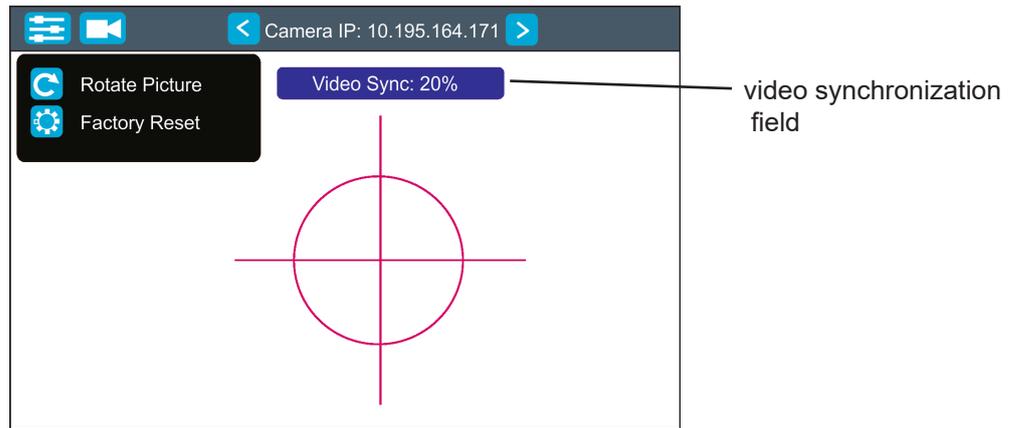
Camera Zoom slider- use it to change a zoom of currently selected camera. A sensitivity of a camera zoom can be set in three levels : low (green slider), medium (yellow slider) and high (red slider). To change the sensitivity level of the camera zoom, the camera zoom has to be assigned to some rotary encoder of the FollowSpot Controller, please see the chapter "Functions mapping" how to change sensitivity level of a slider.

Pan/Tilt sliders - use them to move a moving head to the desired position. A Sensitivity of pan/tilt movement can be set in three levels : low (green slider), medium (yellow slider) and high (red slider). In order to switch the sensitivity of pan or tilt movement to desired level, press and hold the PAN (5) or TILT (6) button until the colour of fader is changed.

Track slider- use it to set desired level of speed of pan/tilt movement. Each level of the track slider responds to certain DMX value of the Pan/Tilt speed channel in DMX chart of BMFL fixture.

Track level	DMX value on the Pan/Tilt speed channel
Smooth	0
Fast	1
Medium	10
Slow	20

Camera button



Rotate Picture- use this function to rotate a picture on the touch screen 180 degrees from current orientation.
Factory Reset- use this function to set a camera to the current setting.
Both items stated above relate to the selected camera in the menu bar.

When you switching between cameras, a field with video synchronization status is displayed. This field shows a delay between camera and the screen. The value 0% means max. delay, 100% is without delay (and this field will disappear from the screen after reaching 100%).

If you wish to stream the camera video over computer network, use a rtsp stream supported media player (e.g. VLC media player, SMPlayer,...) running on your computer and type the following to your media player:

rtsp://IP address of camera/profile2/media.smp

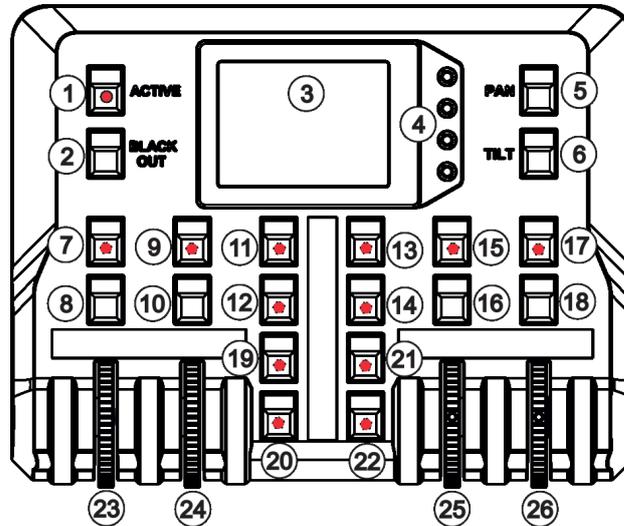
example: rtsp://10.195.165.223/profile2/media.smp

5.3 Saving and recalling presets

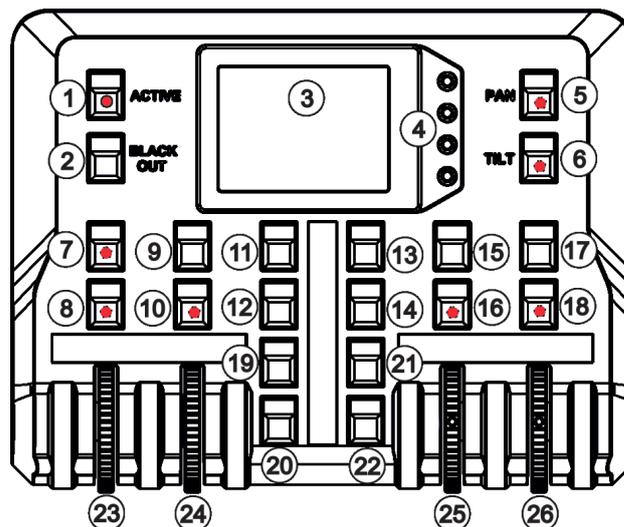
The FollowSpot Controller offers to save up to 12 presets.

To save a preset

1. Press and hold one of the preset buttons (7/9/11/12/13/14/15/17/19/20/21/22) e.g. button (7) until the rotary encoder activating buttons (8/9/16/18) and the pan/tilt buttons (5/6) start to flash.



2. Press flashing button of effect which value you wish to add to the current preset (the button will start light continually).



Note: values on faders cannot be included to presets.

3. Press and hold selected preset button for circa 4 seconds (rotary encoders activating buttons will stop to flash).

To recall a preset

Press a button with the stored preset.

Note: you can write notes on the white fields of the FollowSpot Controller, use a marker on an alcohol base and a suitable cleaning liquid (on alcohol base) for removing the notes. Never use solvents!

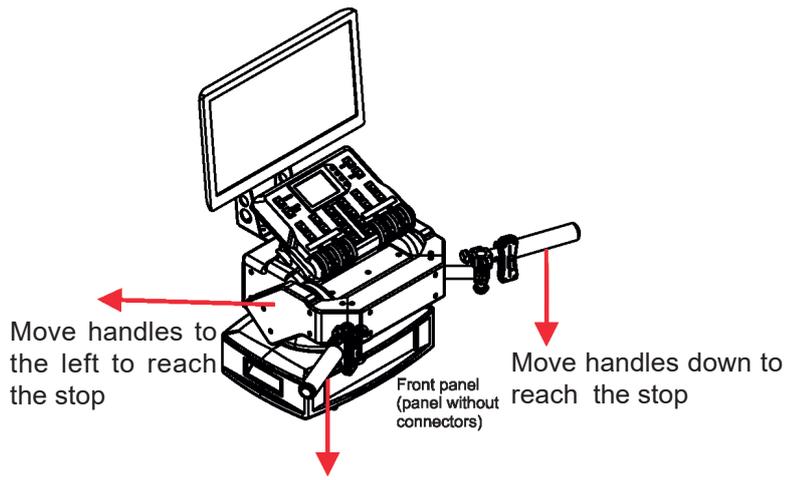
5.4 FollowSpot Controller calibration

In case that you change the FollowSpot Controller (e.g. you will use the FollowSpot Controller from another RoboSpot or from BMFL LightMaster), you have to calibrate it before operating the RoboSpot.

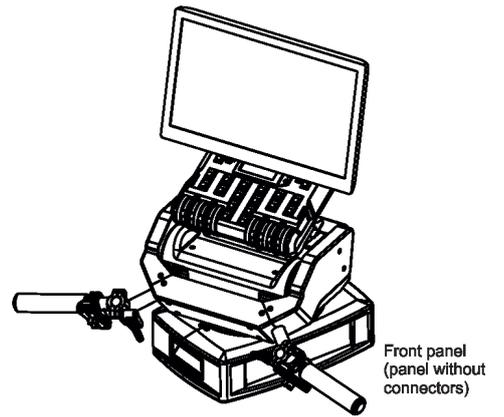
1. Install the new FollowSpot Controller on FollowSpot Controller base
1. Deactivate the FollowSpot Controller (button ACTIVE (1) must not light)
2. Move the control handlebars of the RoboSpot to the calibration position, in this way:
 - pan direction - move handlebars fully to the left until you reach a stop
 - tilt direction - move handlebars fully down until you reach a stop
3. Keep handlebars in the calibration position and press and hold the PAN button (5) for circa 6 seconds until this button makes one flash - it is a finish of the calibration and you can use the FollowSpot Controller.

The calibration is not required If you install/deinstall the same FollowSpot Controller on the same RoboSpot,

Middle position

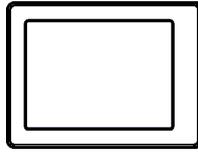


Calibration position



6. Control menu

The FollowSpot Controller is equipped with the QVGA Robe touch screen with battery backup which allows you to set the device behaviour according to your needs.



Icons used in the touch screen menu:

-  - [back arrow] used to move back to the previous screen (or menu level).
-  - [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 and leave menu or to perform desired action.
-  - [cancel] used to leave menu without saving changes.
-  - [display on/off] used to switch on/off the display.
-  - [menu enter] used to enter fixture menu.

Note: buttons are not functional yet.

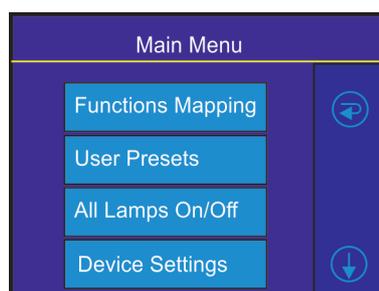
Touch the icon  to display the password entering screen:



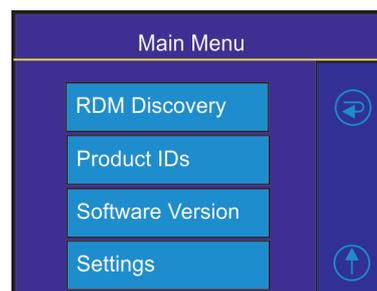
Enter the default password (5242) to enter the main menu of the FollowSpot Controller. The password prevents unauthorized person from changing setting of the FollowSpot Controller (password can be changed or switched off via the menu Settings).

Main menu

Page 1



Page 2



6.1 Functions Mapping

By entering the menu you can assign effects from the list of available effects to the rotary encoders and faders.

List of available effect channels depends of used moving head:

Fixture	Effect	Available DMX values
Robin BMFL FollowSpot	Dimmer	0-255
	Iris	0-191
	Focus	0-255
	Zoom	0-255
	L Frost	0-254
	M Frost	0-254
	H Frost	0-254
	Color 1	0,130-189
	Color 2	0,130-189
	Cyan	0-255
	Magenta	0-255
	Yellow	0-255
	CTO	0-255

Fixture	Effect	Available DMX values
Robin BMFL Spot	Dimmer	0-255
	Iris	0-191
	Focus	0-255
	Zoom	0-255
	L Frost	0,1-53
	M Frost	0,87-139
	H Frost	0,173-225
	Color 1	0,130-189
	Color 2	0,130-189
	Cyan	0-255
	Magenta	0-255
	Yellow	0-255
	CTO	0-255
	DgW. pos	0-127
	DgW. r1	0-255
	DgW. r2	0-255
	RGW 1	0,32-59
	RGWr 1	0-255
	RGW 2	0,32-59
	RGWr 2	0-255
	Prism	0-127
	Pris r	0-255

Fixture	Effect	Available DMX values
Robin BMFL Blade	Dimmer	0-255
	Iris	0-191
	Focus	0-255
	Zoom	0-255
	L Frost	0,1-53
	M Frost	0,87-139
	H Frost	0,173-225
	Color 1	0,130-189
	Color 2	0,130-189
	Cyan	0-255
	Magenta	0-255
	Yellow	0-255
	CTO	0-255
	DgW. pos	0-127
	DgW. r1	0-255
	DgW. r2	0-255
	SGW	0-103
	RGW 1	0,32-59
	RGW r1	0-255
	Prism	0-127
	Pris r	0-255
	FS rot	0-255
	FS 1 m	0-255
	FS 1 s	0-255
	FS 2 m	0-255
	FS 2 s	0-255
	FS 3 m	0-255
	FS 3 s	0-255
	FS 4 m	0-255
	FS 4 s	0-255

Fixture	Effect	Available DMX values
Robin BMFL WashBeam	Dimmer	0-255
	Iris	0-191
	Focus	0-255
	Zoom	0-255
	L Frost	0-254
	M Frost	0-254
	H Frost	0-254
	Color 1	0,130-189
	Color 2	0,130-189
	Cyan	0-255
	Magenta	0-255
	Yellow	0-255
	CTO	0-255
	Efw. pos	0-127
	Efw. rot	0-255

Fixture (continuing)	Effect	Available DMX values
Robin BMFL WashBeam	RGW 1	0,32-59
	RGWr 1	0-255
	FS rot	0-255
	FS 1 m	0-255
	FS 1 s	0-255
	FS 2 m	0-255
	FS 2 s	0-255
	FS 3 m	0-255
	FS 3 s	0-255
	FS 4 m	0-255
	FS 4 s	0-255

The item **All** - releases all assigned effects at one go.

Note: The FollowSpot Controller does not allow to control full DMX range (0-255) of some effects, available DMX values for each effect are stated in the table above.

6.2 User presets

The menu item offers 10 user presets. In the user preset are saved presets (rotary encoders and faders) made by means of the buttons 7/9/11/12/13/14/15/17/19/20/21/22.

6.3 All Lamps On/Off

The menu item allows you to switch on/off lamp in the Robin BMFL FollowSpot and in all fixtures connected to this Robin BMFL FollowSpot.

6.4 Devices Settings

By entering the menu the RDM UIDs of available fixtures are displayed. Select desired fixture (its RDM UID) and the following menu items will appear.

Pan Offset - allows you to set a pan offset in a range of +/-100% .

Tilt Offset - allows you to set a tilt offset in a range of +/-100%.

Zoom Offset - allows you to set a zoom offset in a range of +/-100%.

Focus Offset - allows you to set a focus offset in a range of +/-100%.

Pan range - allows you to extend or reduce a range of pan movement.

Value 1x means standard range of movement (Pan=+/-80°).

Value 2x means extended range of movement (Pan=+/-160°)

Value 0.1x means reduced range of movement (Pan=+/-8°)

Tilt range - allows you to extend or reduce a range of tilt movement.

Value 1x means standard range of movement (Tilt=+/-40°).

Value 2x means extended range of movement (Tilt= +/-80°)

Value 0.1x means reduced range of movement (Tilt= +/-4°)

Pan/Tilt reverse - allows you to reverse the pan/tilt movement.

DMX Address - allows you to set DMX address of the fixture.

DMX Preset - allows you to select DMX mode.

Options Pan/Tilt/Zoom/Focus offset and Pan/Tilt range are needed for multiple BMFL FollowSpot installation when the fixtures are placed on different places at different distances from an illuminated point.

6.5 RDM Discovery

The menu item serves for searching devices and should be used when you connect/disconnect some fixture to the RoboSpot.

6.6 Product IDs

Select this menu item to read an RDM UID, MAC Address and RDM Label.

6.7 Software Version

Select this item to read the software version of the fixture modules:

Display System - a display processor

Module C - a control panel processor

Module RPI - a control computer in the fixture base

6.8 Settings

The menu allows you to set the behaviour of the RoboSpot according to your needs.

Ethernet Settings - the menu allows you to set the RoboSpot for the Ethernet operation

Ethernet Mode

Artnet - Fixture receives Artnet protocol

gMAI - Fixture receives MANet 1 protocol

gMA2 - Fixture receives MANet 2 protocol

sACN - Fixture receives sACN protocol

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.

sACN Priority - The value of this item can be set in range 0-255.

Faders Invert - the menu item allows you to invert a function of the fader handle (default setting: handle down-minimum (0 DMX), handle up-maximum (255 DMX))

Left Fader Invert - fader inversion On/Off

Right Fader Invert - fader inversion On/Off

Faders Switch - swaps functions of faders.

Camera Rotation - the function rotates camera picture on the monitor 180 degrees from the current orientation.

Camera Zoom invert - the function inverts camera zoom.

Password Settings - the menu item allows you to change or switched off password.

Change password - use this option to change password. Default (factory) password is 5242.

Protect with Password - If this function is on, the password is required at menu entry.

Note: both menu items stated above require inserting of password to enter even the password is set off ! You have to remember last set password!

Recalibrate Touchscreen - the item starts calibration of the touchscreen. Follow instructions on the screen.

Default Settings - The menu item allows you to set all fixture parameters to the default (factory) values. Note: the password will not be set to default value.

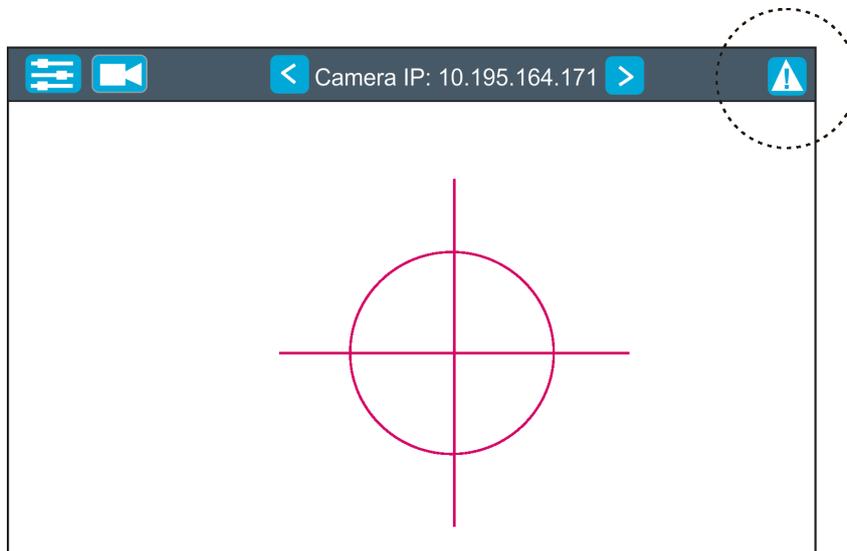
Update Software - The menu item allows you to update software in the RoboSpot (including the FollowSpot Controller) via the CAMERA input (RJ45) of the RoboSpot by means of the ROBE RDM Uploader software. For more details about the ROBE RDM Uploader software, please visit <http://www.robe.cz/support>. Important: The FollowSpot Controller has to be connected to the RoboSpot during software update.

The following message will appear on the RoboSpot screen during a software update:

Flahing Mode
Please do not touch any buttons!

7. Error and information messages

Error message message is signalled by the warning icon at the right top corner of the RoboSpot screen:



Touch the warning icon icon to display a message. Touch the screen to hide the message. List of error and information messages:

Display Communication Error

This message informs you that the FollowSpot Controller is not installed in the FollowSpot Controller base or the connection between the FollowSpot Controller and a computer in the RoboSpot base is faulty.

Not correct camera settings!

Reset camera settings?

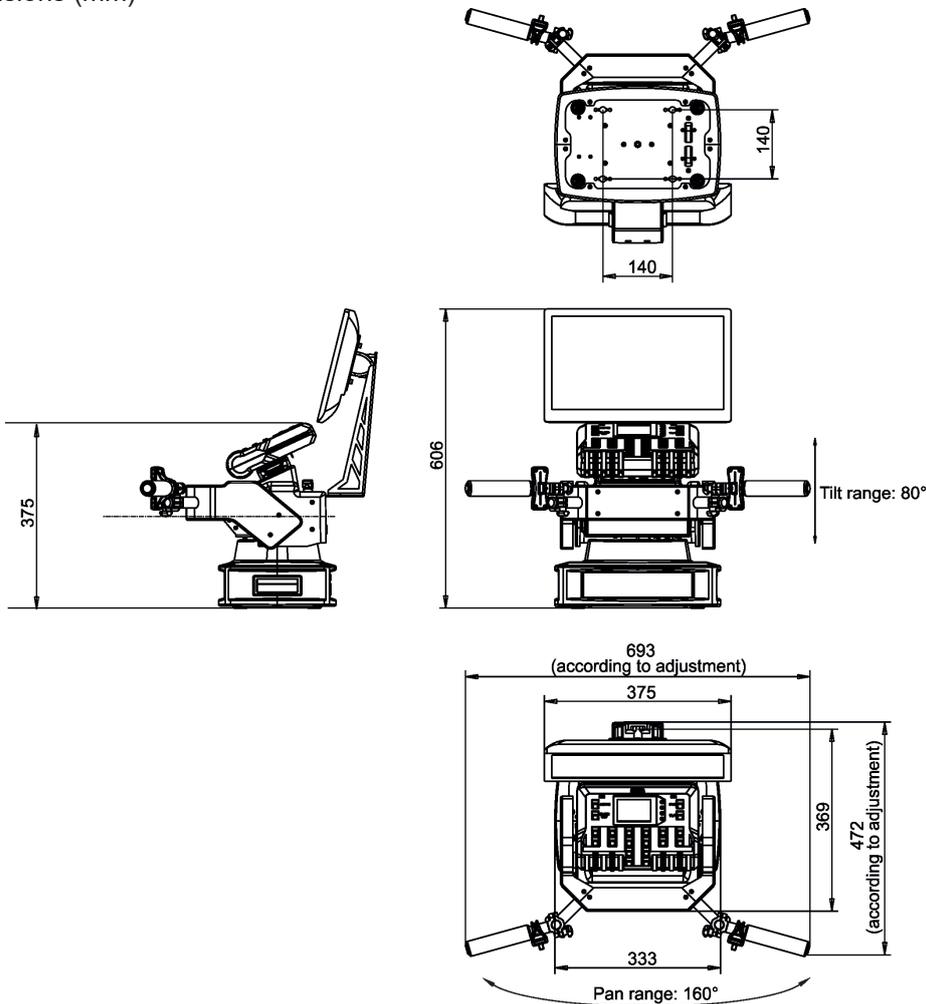
This message informs you that the RoboSpot software and the camera settings are not accordance. Use the option "Yes" to set correct camera settings.

Note: the option "Yes" has the same effect as the option "Factory reset " in the Camera button menu.

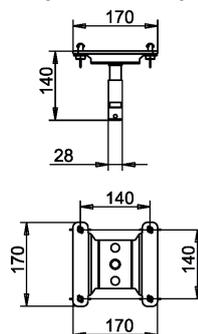
8. Technical specifications

Supported fixtures:	Robin BMFL FollowSpot/Spot/Blade/WashBeam
Input voltage:	100-240V AC
Power consumption:	15W (power factor=0.43, I=0.12A at 230V)
Fuse:	T 2 A
LCD Monitor:	ASUS VT168 H (panel size:15.6" , max. resolution:1366 x 768)
Setting & Control:	graphic touch screen
Protocols:	RDM, ArtNet, sACN,gMA I, gMA II
Control elements:	20 buttons, 4 rotary encoders and 2 faders
Connection:	DMX In/Out: Locking 3-pin and 5-pin XLR Ethernet: RJ 45 Camera: RJ 45
-	AC power: Neutrik PowerCon, A-type, NAC3MPA

Pan rage:	+/- 80°
Tilt range:	+/- 40°
Fastening:	via adaptor on tripod
Weights:	14.7 kg (RoboSpot), 1.7kg (Adaptor), 7.5 kg (Tripod)
Dimensions (mm)	



Adaptor with spigot



Included items

- 1 x RoboSpot
- 1 x Adaptor (including spigot) (P/N 9901504)
- 1 x Tripod for PATT, RoboSpot, FollowSpot, LightMaster (P/N 10980350)
- 1 x Power cable
- 1 x User manual

9. Maintenance and cleaning

DANGER !
***Disconnect from the mains before starting any
maintenance work***

A soft lint-free cloth moistened with cleaning fluid is recommended, under no circumstances should solvents be used! For cleaning of the LCD monitor use a fluid intended for this purpose.

Never use solvents for cleaning the device

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

9.1 Replacing the fuse

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

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 fuse holder in the housing and fix it.

9.2 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.

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Specifications are subject to change without notice.
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Made in CZECH REPUBLIC by ROBE LIGHTING s.r.o. Palackeho 416/20 CZ 75701 Valasske Mezirici

