ROBE.

ROBIN iForte LTX
LightMaster Side

ROBIN iForte LTX
LightMaster Rear

ROBIN®
Innovative Technology

USER MANUAL

Version 1.1

Table of contents

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

1. Safety instructions

CAUTION!
The ROBIN iForte LTX LightMaster was designed for indoor use only.
The product is for professional use only, it is not for household use.
The product is intended for the ROBIN iForte LTX WB only.

The Robin iForte LTX LightMaster is not watertight device!
It must not be installed on the iForte LTX in a wet or rainy environment!

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.

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

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.

Refer servicing to qualified service personnel.

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

Please use the original packaging if the ROBIN iForte LTX LightMaster is to be transported.

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

Warning!
If the Robin iForte LTX WB is installed on the tripod, the pan/tilt movement of the fixture can be controlled by the LightMaster only. Do not use DMX for control of its pan/tilt movement!

The product (covers and cables) must not be exposed to a high frequency electromagnetic field higher than 3V/m.

Immunity of the equipment is designed according to the standard EN 55035 Electromagnetic compatibility of multimedia equipment - Immunity requirements.

Emission of the equipment complies with the standard EN55032 Electromagnetic compatibility of multimedia equipment – Emission Requirements according to class B.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
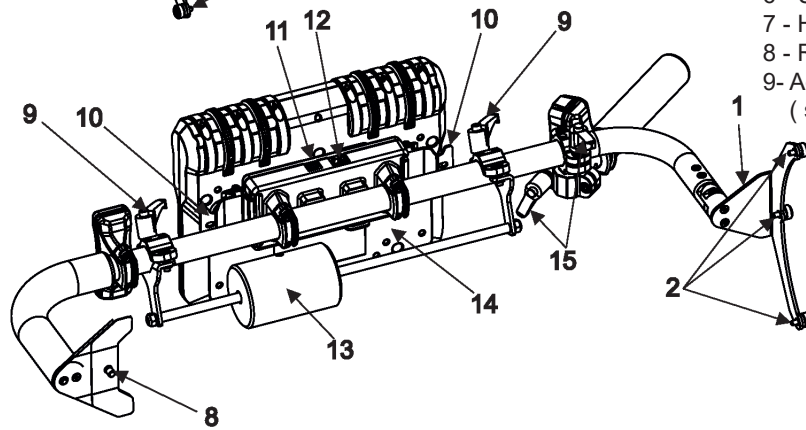- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

2. Description of the Robin iForte LTX LightMaster

Side version
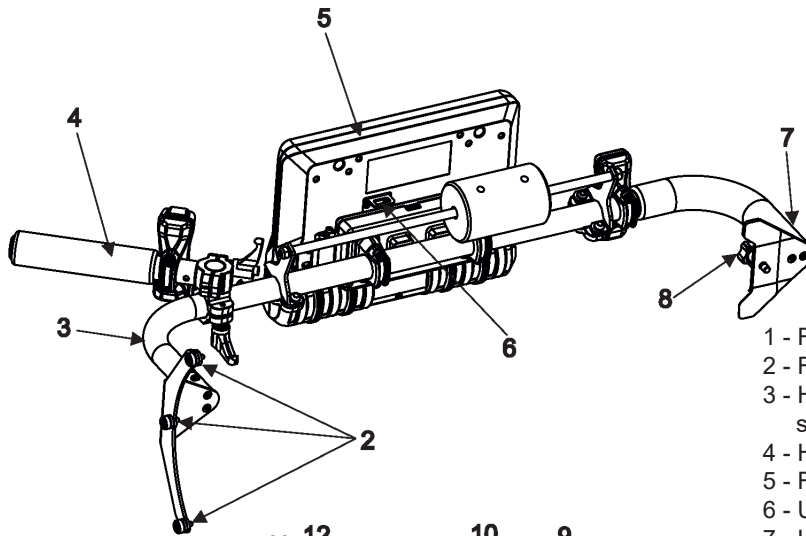
1 - Front holder (rear version)
2 - Front fastening screws
3 - Handle bar (side version),
    supporting frame (rear version)
4 - Handle
5 - FollowSpot controller
6 - USB (type A)
7 - Handle
8 - Rear fastening screws*
9- Adjusting locks for the balance weight bar
   (side version),

10 - Spring locks of the FollowSpot controller
11- USB (type B)
12 - RJ 45
13 - Balance weight
14 - Base of the FollowSpot controller
15 - Adjusting locks for handle
16 - Locks for front holder (rear version)
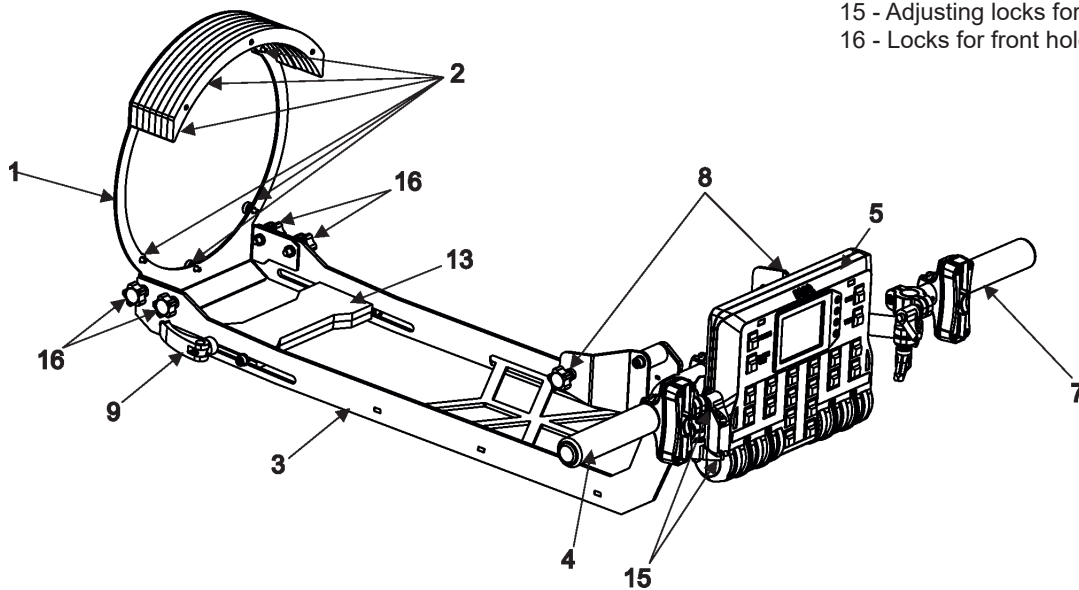
Rear version

2.1 Control elements of the FollowSpot controller

1 - Active button (actives
    the FollowSpot Controller)
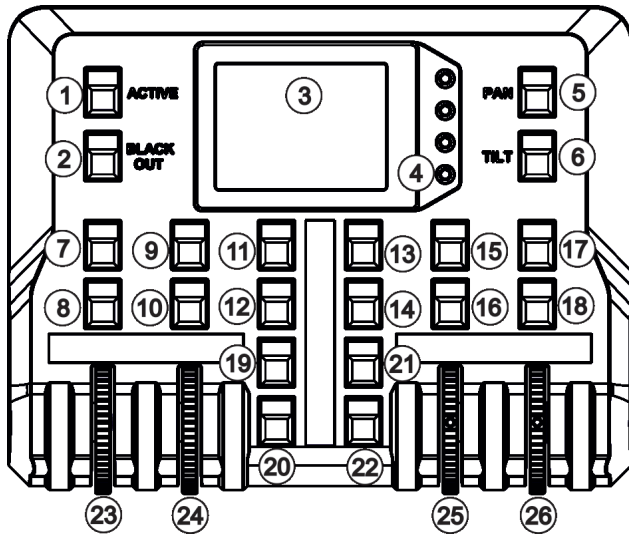2 - BlackOut button
3 - Graphic touch screen
4 - Switch On screen button
5 - Pan button(switches pan and tilt
    motors from soft mode to
    hard mode
6 - Tilt button(switches pan and tilt
    motors from soft mode to
    hard mode)
7 - Preset button
8 - Activating button for jog-wheel
    (23)
9 - Preset button
10 - Activating button for rotary
    jog-wheel (24)
11 - Preset button
12 - Preset button
13 - Preset button
14 - Preset button
15 - Preset button
16 - Activating button for
    jog-wheel (25)
17 -Preset button
18 - Activating button for
    jog-wheel (26)
19 - Preset button
20 - Preset button
21 - Preset button
22 - Preset button
23 - Jog-wheel
24 - Jog-wheel
25 - Jog-wheel
26 - Jog-wheel
27 - Left fader
28 - Right fader

Side version
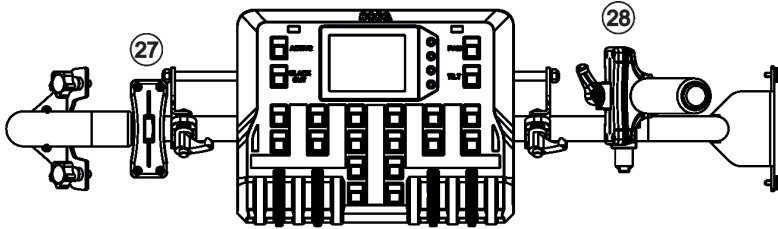
Rear version
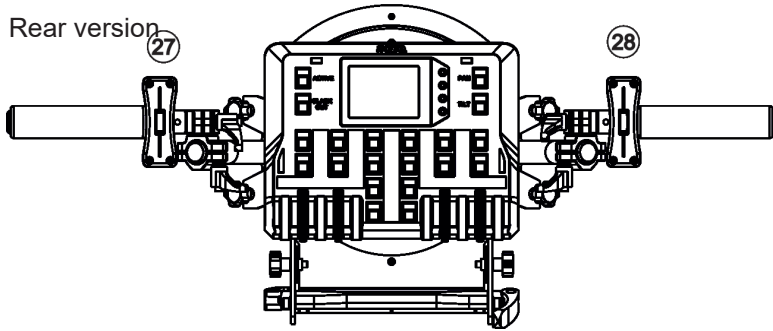
3. Installation

> The Robin iForte LTX LightMaster has to be installed by a qualified worker on the Robin iForte LTX WB.

> Important!
> Switch the fixture to the Follow Spot Mode (option Soft for Side version, option Hard for rear version) before installing the Robin iForte LTX LightMaster.

3.1 iForte LTX WB modifications needed for both types of LightMasters

Installation of the new cover with USB connector
1. Disconnect the iForte LTX from mains
2. Remove the balancing weight cover (1) by unscrewing three screws (2).
3. Connect the new cover (5) with USB connector with iForte LTX by means of USB cable type C-C.
4. Screw the new cover (5) with USB connector (type C) on the iForte LTX with three screws (2).
   Tighten screws in order A-->B-->C, use tightening torque 0.5Nm (pre-tightening) and 2.5Nm for final tightening.

The USB connector type C is dust and water protected according to IP 65 by mating with related cable USB connector. It cannot stay disconnected outdoor.
If the USB type C connector is not used, it has to be sealed by the rubber cap (8) to keep IP65 rating of the cover.

Note. If you removed the LightMaster from the fixture, screw the original cover (without USB connector) on the fixture head.

Installation of the new rear cover
1. Disconnect the iForte LTX from mains
2. Remove the original rear cover (3) of the iForte LTX by unscrewing the four screws (4).
3. Screw the new rear cover (6) with threaded hole (7) on the iForte LTX.
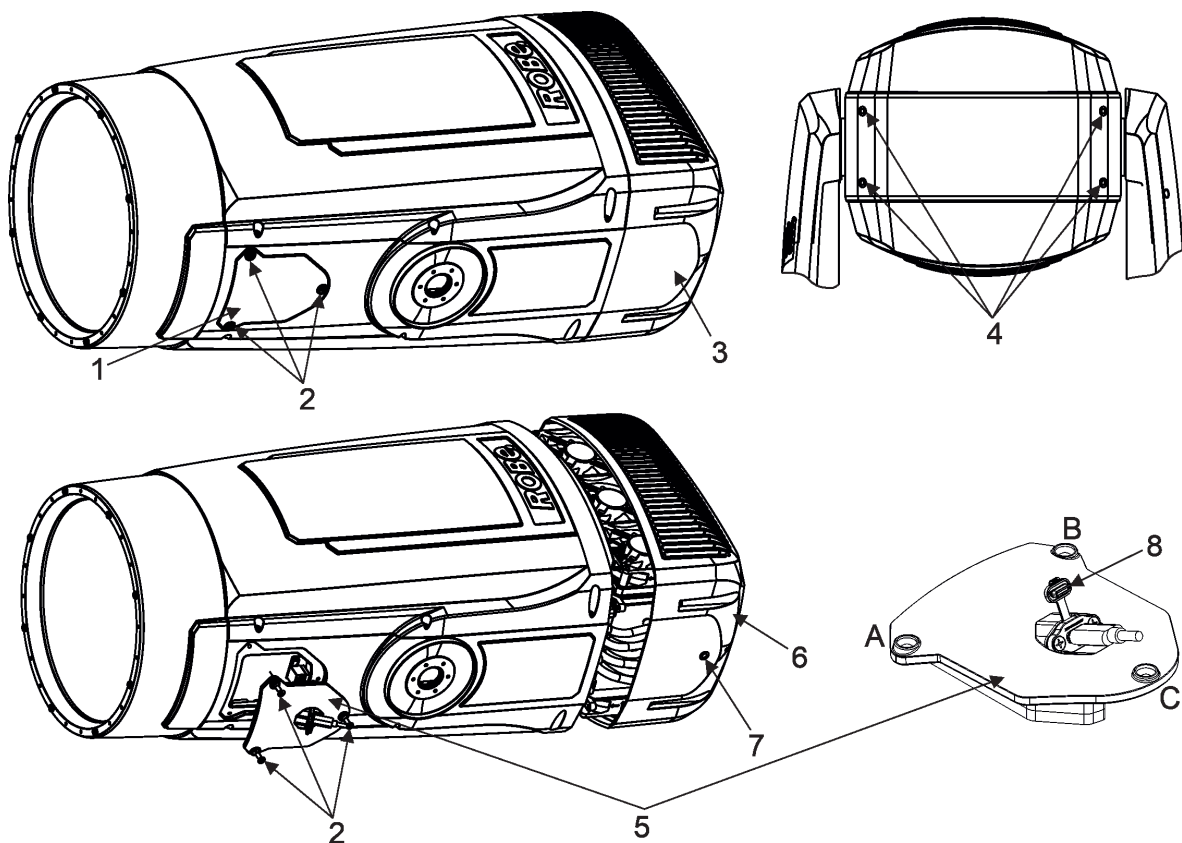
3.2. Robin iForte LTX LightMaster Side

1. Switch the Robin iForte LTX WB to the option Soft of the Follow Spot Mode (tab Personality-->Follow Spot Mode -->Soft).
2. Disconnect the fixture from mains and place it on a flat surface (e.g. table). Move the head to a horizontal position and lock the tilt movement.
3. Place the LightMaster handle (3) on the head and fasten it to the front cover of the head by means of six screws (2) and to the rear cover of head by means of two screws (8).
4. Check that all crews are fully tighten.

Note. the LightMaster has to be installed on the side of the head with USB connector.
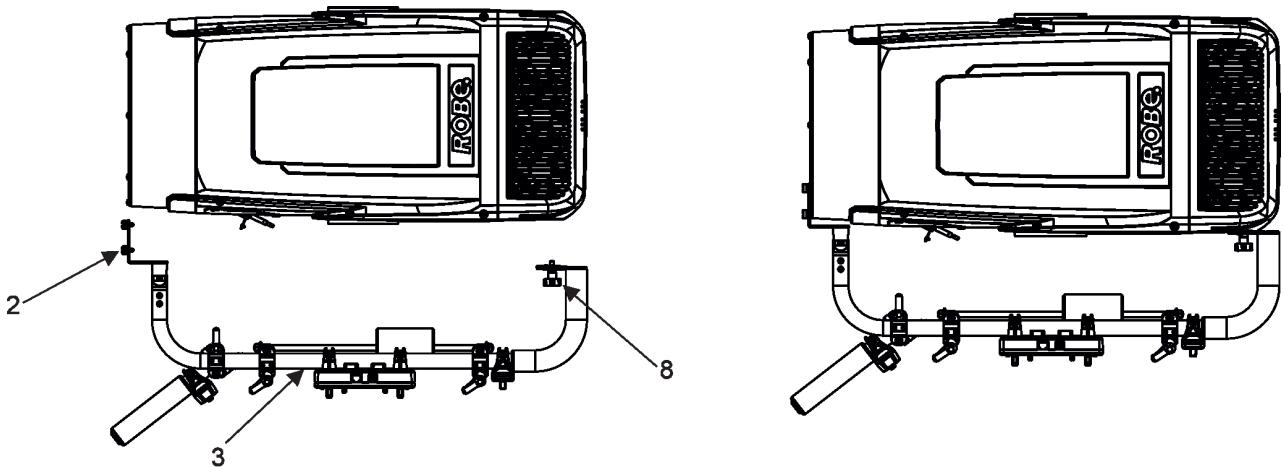
5. Attach the FollowSpot Controller (5) to the FollowSpot Controller base (14). During attaching, both spring locks (10) have to be in an unlocked position (pressed towards the Follow Spot Controller).
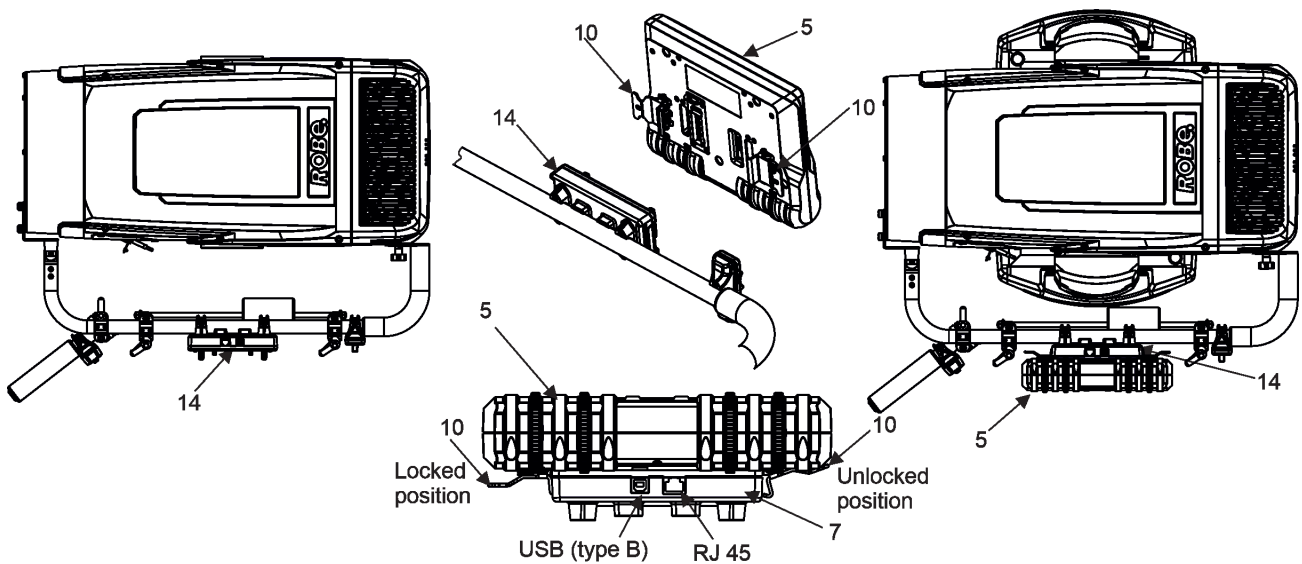
6. Connect the USB connector on the FollowSpot Controller base with USB connector on the cover (18) by means of the USB cable type B-C (17).

.
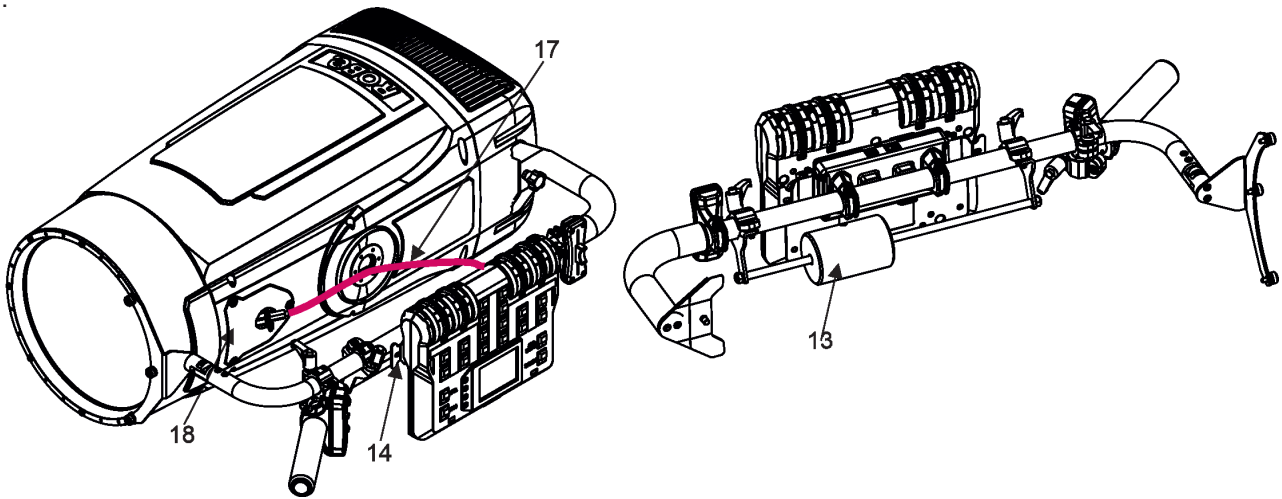
7. Use the balance weight (13) to balance the head in a horizontal position.

Note: The FollowSpot Controller with its base can be tilted +/-15°(from a vertical axis) on the handle bar.
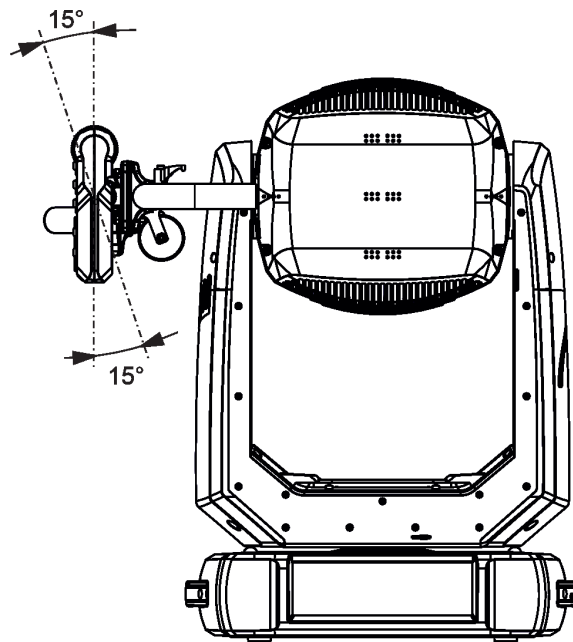
3.3 Robin iForte LTX LightMaster Rear

The installation should do two workers as the supporting frame is heavy.

Danger!
Never put fingers between the balance weight (13) and the supporting frame (3)
when you adjust the position of the balance weight. There is a danger of injury of
your fingers by the heavy balance weight.
Always secure adjusted position of the balance weight by means of two locks (9).

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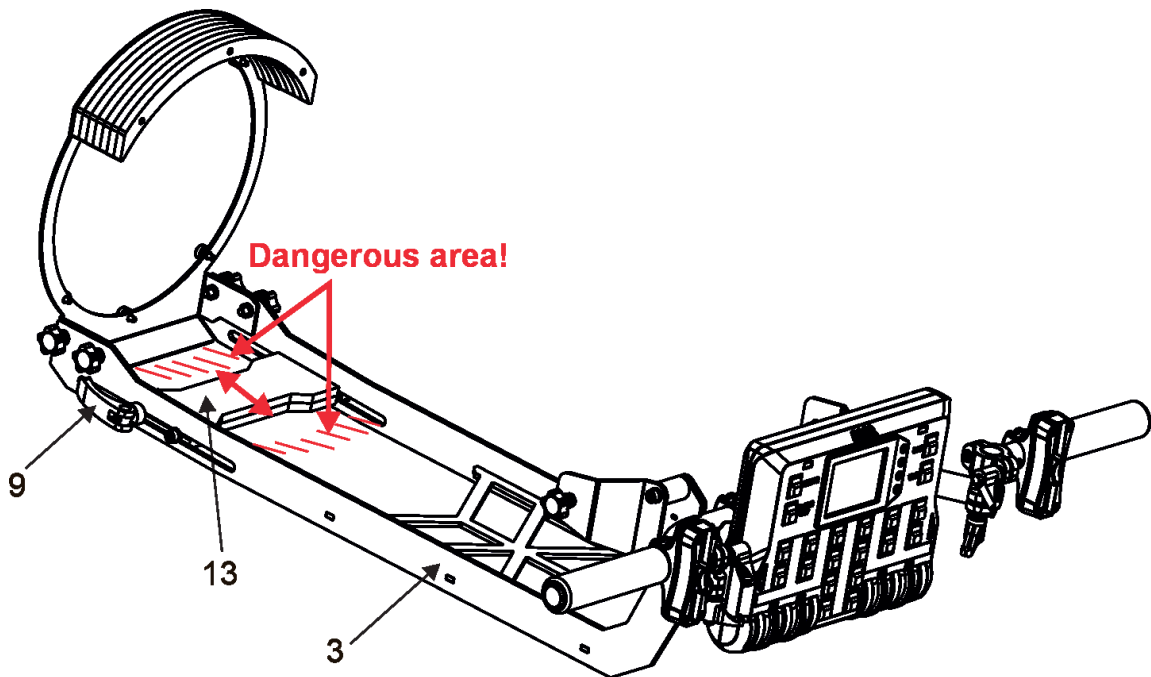
1. Switch the Robin iForte LTX WB to the Hard option of the Follow Spot Mode (tab Personality-->Follow Spot Mode -->Hard).
2. Disconnect the fixture from mains and place it on a flat surface (e.g. table). Move the head to a horizontal position and lock the tilt movement.
3. Unscrew the four locks (16) and remove the front holder (1) from the supporting frame (3).
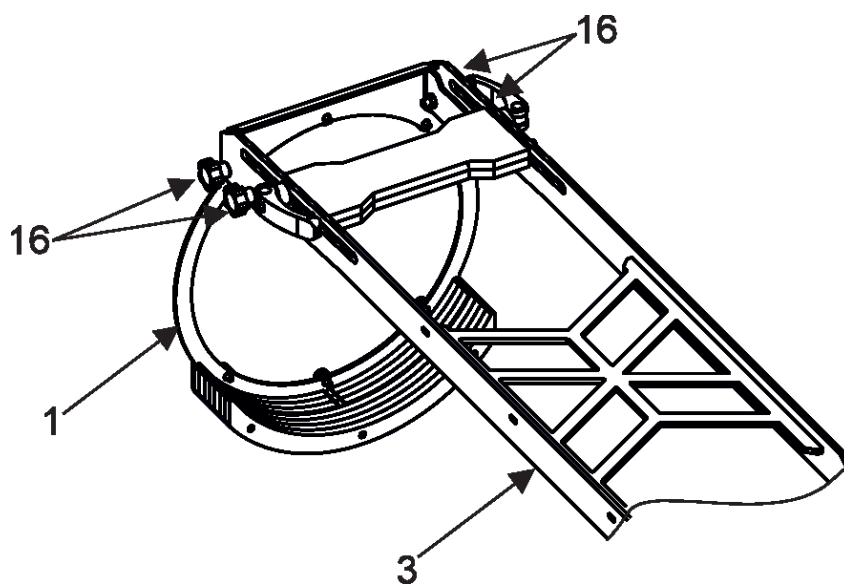
4. Screw the front holder (1) on the head by means of six screws (2).
5. Insert the supporting frame (3) under the head and screw it on the head by means of two rear screws (8) and by means of the four screws (16) to the front holder (1).
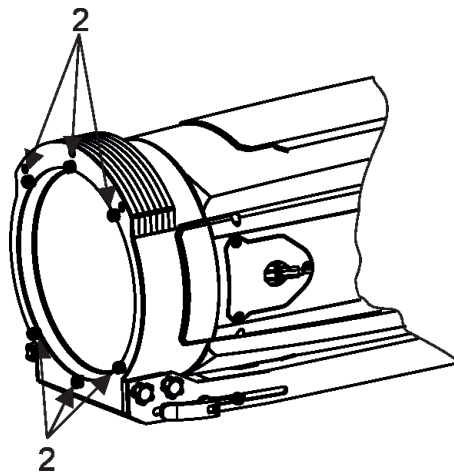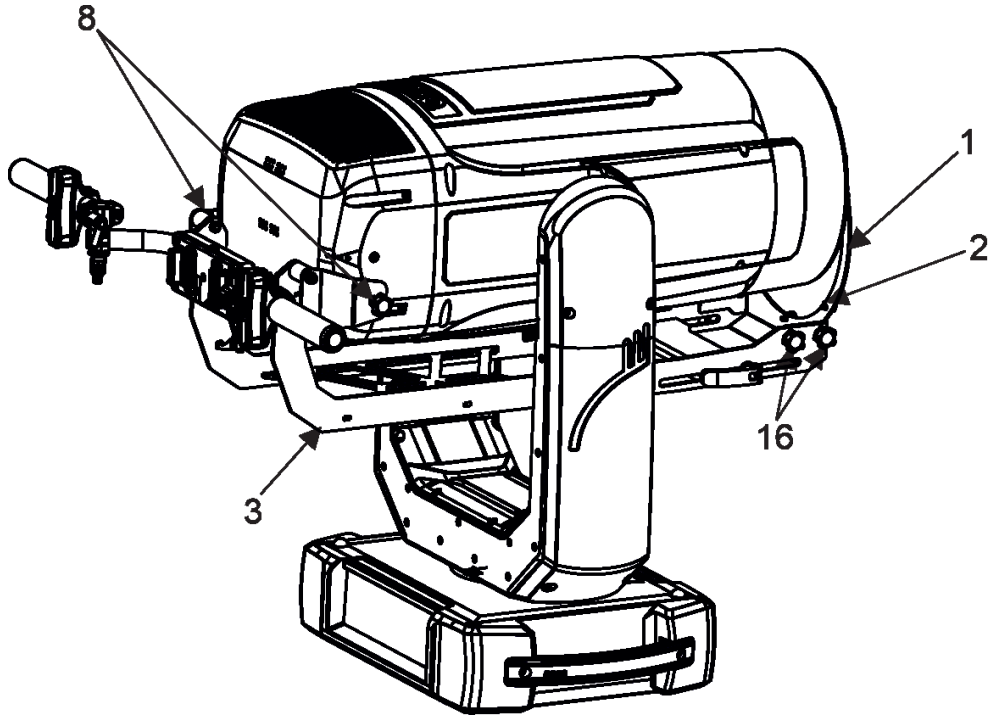
4. Attach the FollowSpot Controller (5) to the FollowSpot Controller base (14). During attaching, both spring locks (10) have to be in an unlocked position (pressed towards the Follow Spot Controller).

Locked position

Unlocked position

USB (type B)   RJ 45
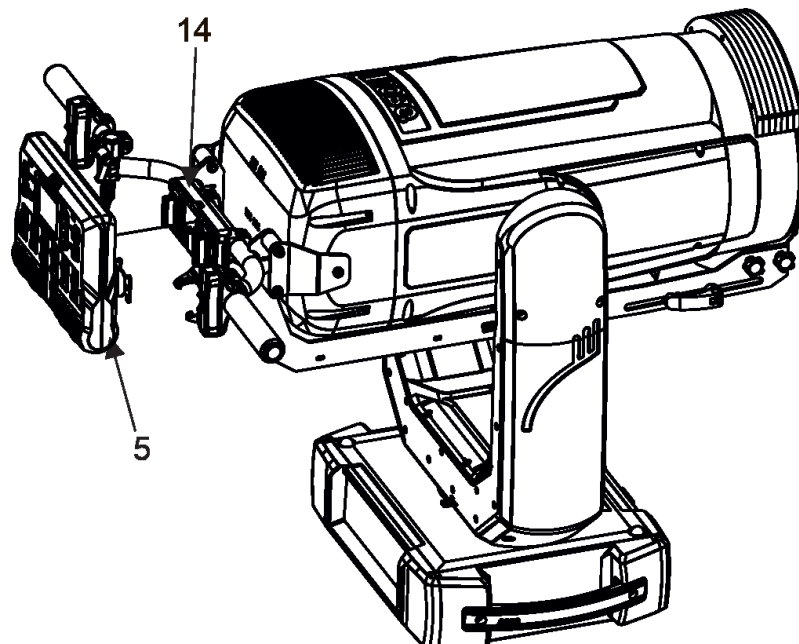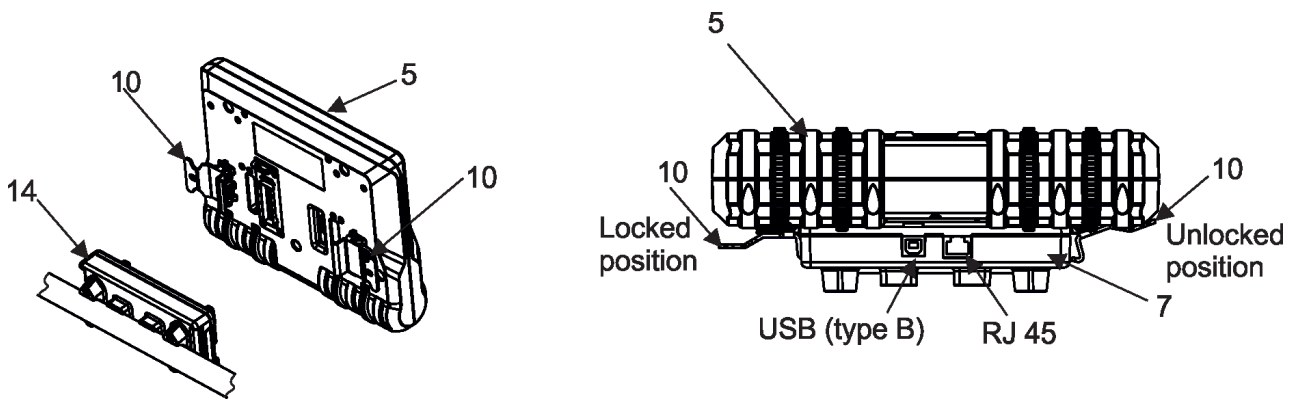
5. Connect the USB connector on the FollowSpot Controller base with USB connector on the cover (18) by means of the USB cable type B-C (17).

USB B

USB C
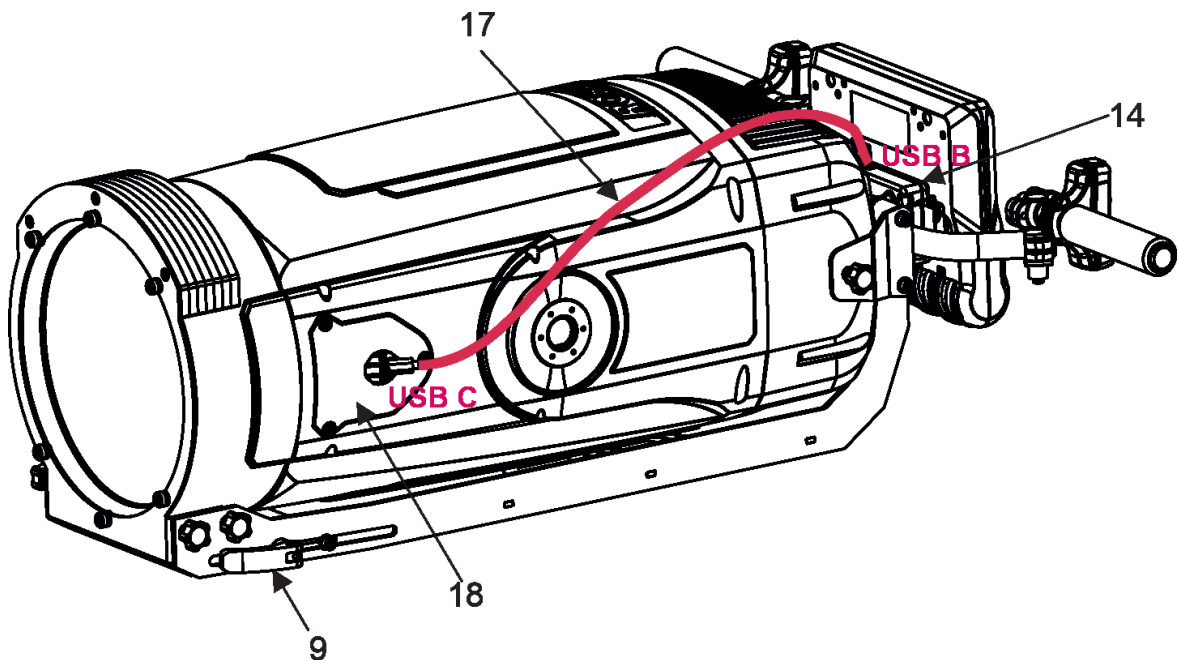
6. Use the balance weight (13) to balance the head in a horizontal position. Always secure the balance weight in adjusted position by means of the balance locks (9).

3.4 Installation of the Robin iForte LTX WB on the tripod

1. Unfold and adjust height of the tripod and distance of legs (8) by means of adjusting locks (4,5,6,7). The lock (3) has to be in a lower position (as shows arrow on picture below).
2. After inserting the adaptor (1) with spigot (2) to the tripod, the spigot (2) has to be secured by means of the lock (10).
3. The four quarter -turn locks (9) of the adaptor serve for fastening the Robin iForte LTX WB with installed LightMaster on the tripod with the adaptor. **Two workers should install the Robin iForte LTX WB on the assembled tripod with the adaptor.**

   Check all quarter-turn locks (9) are fully tightened before operating the fixture.

Check that all locks (3, 4, 5,6,7,10,) are fully tightened before placing the Robin iF-orte LTX with installed LightMaster on the tripod with adaptor.

Adaptor with spigot

Detail A
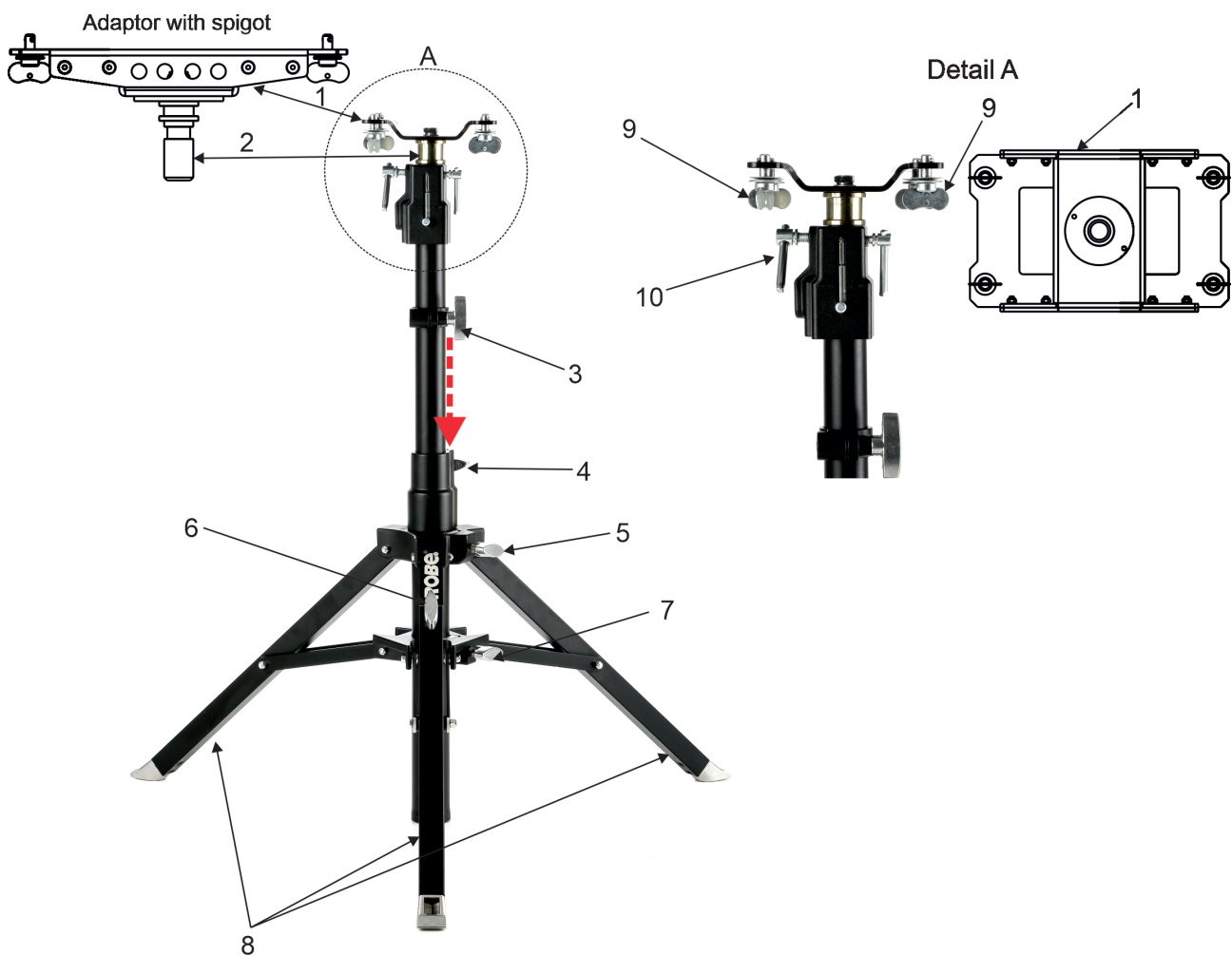
Warning!
If the Robin iForte LTX is installed on the tripod, the pan/tilt movement of the fixture must be controlled by the LightMaster only. Do not use DMX for pan/tilt movement!

4. Operation

After installing the ROBIN iForte LTX LightMaster on the fixture and connecting with the fixture via USB cable, connect the fixture to mains and leave it to perform resets (except pan/tilt reset).
After finishing resets, the fixture is in the FollowSpot mode with pan/tilt motors in the Soft mode.
Press the button ACTIVE (1) in order to activate the FollowSpot Controller. By pressing either the PAN button (5) or the TILT button (6) you will switch both pan and tilt motors of the fixture to the Hard mode of the Follow-Spot mode.
The button BLACK OUT (2) closes light output of the fixture.
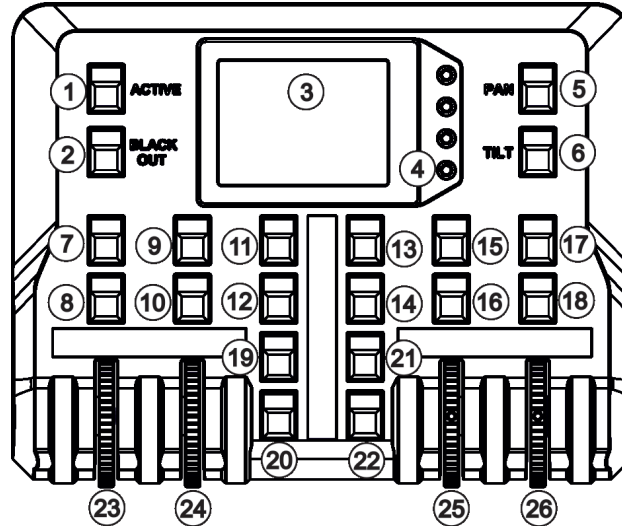
4.1 Functions mapping

After switching the fixture on, the touch screen of the FollowSpot Controller shows the initial screen:
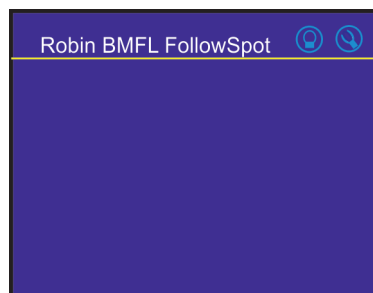
Note: the massage "Waiting for controller" means the FollowSpot Controller is not connected with the fixture via USB cable.

Touch the icon 🔍 to display the password entering screen:
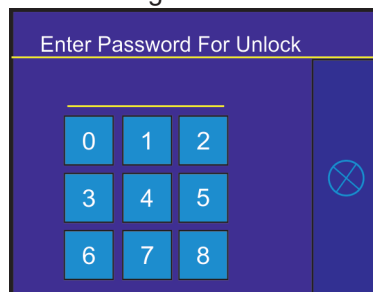
Enter the password (default password is 5242) to enter the main menu of the FollowSpot Controller. The password prevents unauthorized person from changing setting of the FollowSpot Controller.

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 Jog-wheels and faders
1.Touch desired effect. Buttons (8/10/16/18) which activate jog-wheels (23/24/25/26) and buttons (20/22), which matches faders (27/28) will start to flash.
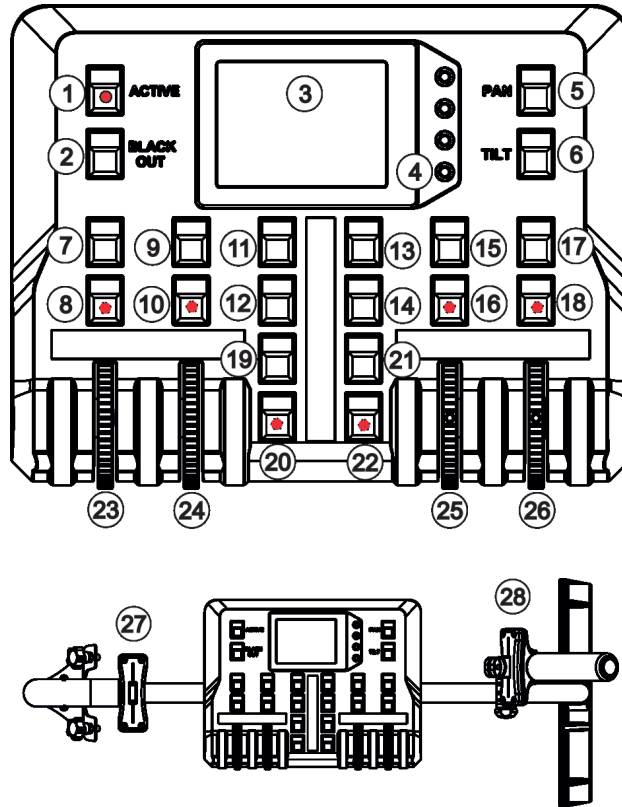
2.Press desired button and selected effect will be assigned to its jog-wheel (fader).
   Assigned effect is displayed in a yellow colour, free effects stay in a white colour.
3.Repeat steps 1 and 2 for needed effects.
4.Touch the [cancel] icon and than [back arrow] icon. The screen with effect faders will appear.
Example:
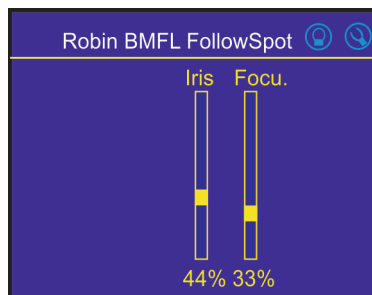
Only effects assigned to the jog-wheels will appear on this screen.
Effects assigned to faders (27/28) will not be shown.

Sensitivity of the jog-wheels 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 - green slider
medium level -yellow slider
high level- red slider
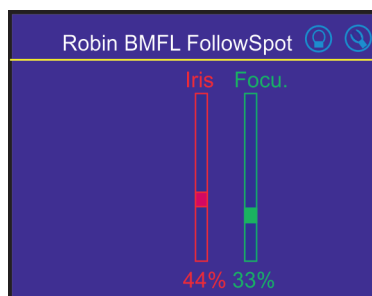
In order to switch a jog-wheel to desired level of sensitivity, press and hold its activating button (8/10/16/18) until the colour of fader is changed.

Effects assigned to the four jog-wheels and two faders have a priority over DMX values coming from a DMX controller**.**

Functionality of the Robin iForte LTX LightMaster can by restricted by means of commands on the channel Power/Special Functions of the Robin iForte LTX as follows:

225-229 DMX -LightMaster enabled
230-234 DMX - LightMaster disabled (except two faders on its handle bar and pan/tilt)
235-239 DMX - LightMaster disabled (except pan/tilt)

To control desired effect
1.Use its fader on the screen or press the activating button for its jog-wheel and use this jog wheel or use a corresponding fader.
The FollowSpot Controller overwrites fixture channels which are mapped to its jog-wheels or faders, excepting a dimmer. The dimmer value is a combination of value coming from DMX console and a value on the Follow-Spot Controller (e.g. DMX console sends 180 DMX, jog-wheels shows 50%, real DMX value coming to fixture is 90 DMX).
In case that the DMX console does not send DMX data, the FollowSpot Controller allows full range (0-255 DMX) of dimmer control.

To release an effect from the jog-wheel (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 to release all assigned effects at one go.

4.2 Saving and recalling FollowSpot controller 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 jog-wheels activating buttons (8/9/16/18) and the pan/tilt buttons (5/6) start to flash.
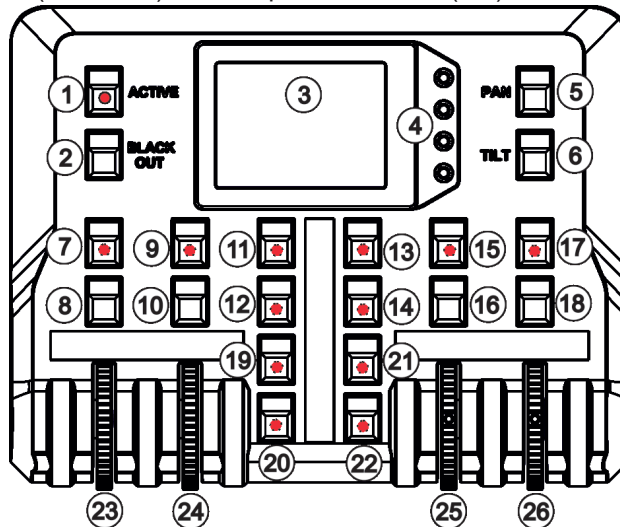
2. Press flashing button of effect which value you wish to add to the current preset (the button will start light continually).
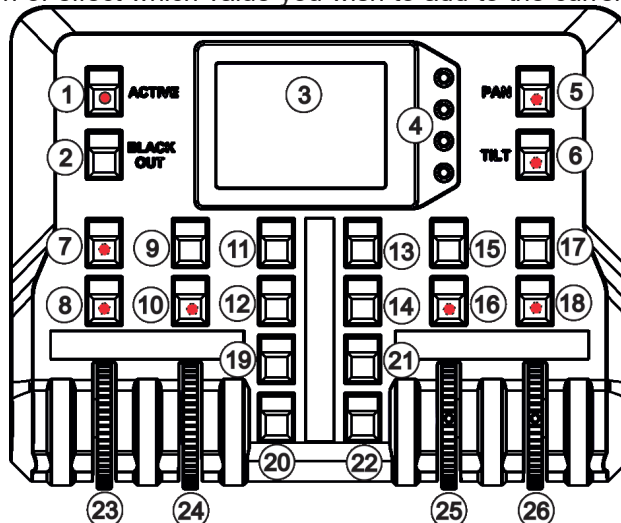
Note: values on faders cannot be included to presets.

3. Press and hold selected preset button until jog-wheels activating buttons stop to flash.

Note: the FollowSpot controller presets are common for all user show and cannot be saved on the USB flash drive.
If you use the FollowSpot Controller in the RoboSpot, the FollowSpot controller presets will be overwritten by presets from RoboSpot.

To recall the FollowSpot controller preset
Press a button with stored FollowSpot Controller preset.

To delete the FollowSpot controller preset
1. Press and hold desired preset button until the jog-wheel activating buttons (8/10/16/18) and the pan/tilt buttons (5/6) start to flash.
2. Press and hold selected preset button until the jog-wheels activating buttons stop to flash. Do not press any jog-wheels activating button. The preset button will stop to light.

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. Control menu

The FollowSpot Controller is equipped with the QVGA Robe touch screen with battery backup which allows to set the device behaviour according to your needs.
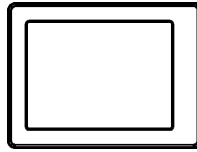
Icons used in the touch screen menu:

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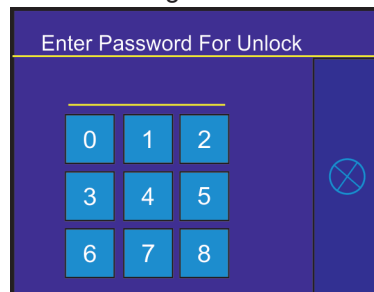
Enter the password (5242) to enter the main menu of the FollowSpot Controller. The password prevents unauthorized person from changing setting of the FollowSpot Controller.

Main menu

Page 1

Page 2
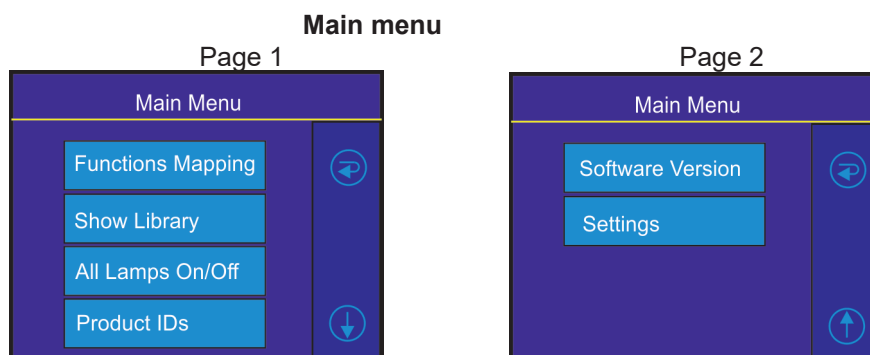
5.1 Menu Functions Mapping

By entering the menu you can assign effects from the list of available effects to the jog-wheels and faders.
The item **All** - releases all assigned effects at one go.

List of available effect channels:

Fixture	Effect	Available DMX values
	Power	90-93
	Dimmer	0-255
	Iris	0-179
	Focus	0-255
	Zoom	0-255
	Frost	0-50, 87-136
	Color 1	0,130-189
	Color 2	0,130-189
	Cyan	0-255
	Magenta	0-255
	Yellow	0-255
	CTO	0-255
	V Color	0-132
	Efw1. pos	0-127
	Efw1. rot	0-255
	Efw2. pos	0-127
Robin iForte LTX WB	Efw2. rot	0-255
	RGW 1	0,32-59
	RGW r1	0-255
	Prism 1	0-127
	Pris1 r	0-255
	Prism 2	0-127
	Pris2 r	0-255
	Frost	0-50, 87-136
	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

5.2 Menu Show library

The menu item offers 10 user shows. In the show is saved:
  Functions mapping of the FollowSpot Controller
  Sensitivity of jog-wheels
  Faders switching and inversion

The show can be saved on a USB flash drive and load to the FollowSpot Controller if need.

```
                Show
    ┌──────────────────────────┐  ┌──────┐
    │   Select/Rename Show      │  │  ⏎   │
    ├──────────────────────────┤  └──────┘
    │     Import Show           │
    ├──────────────────────────┤
    │     Export Show           │
    ├──────────────────────────┤
    │     New show              │
    └──────────────────────────┘
```
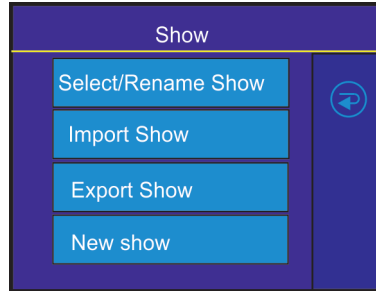
To select a show
1. Enter the menu "Select/rename Show"

```
            Select/Rename Show
    ┌──────────────────────┐  ┌──────┐
    │ (●)  Show 1          │  │  ↓   │────── Down button
    ├──────────────────────┤  ├──────┤
    │ ( )  Show 2          │  │  ✓   │────── Confirm button
    │ ( )  Show 3          │  ├──────┤
    │                      │  │ ABC  │────── Edit button
    │ ( )  Show 4          │  ├──────┤
    │ ( )  Show 5          │  │  ⊗   │────── Cancel button
    └──────────────────────┘  └──────┘
```

2. Select desired show and confirm it.

To rename a show
1. Select a show and touch the Edit button.

```
            Edit show Label
                Show 1
    ┌──────────────────────────┐  ┌──────┐
    │ aA │ bB │ cC │ dD │ ALT   │  │  ✓   │
    │ eE │ fF │ gG │ hH │ DEL   │  └──────┘
    │ iI │ jJ │ kK │ lL │ Sh    │  ┌──────┐
    │                          │  │  ⊗   │
    └──────────────────────────┘  └──────┘
```

2. Edit the name of selected show by means of the alphanumerical keyboard.
Function keys has the following meaning:
        ALT key- switches among keyboards:

```
      Edit show Label                    Edit show Label                    Edit show Label
          Show 1                             Show 1                             Show 1
  ┌─────────────────────┐          ┌─────────────────────┐          ┌─────────────────────┐
  │ aA │bB │cC │dD │ALT │ ✓        │ mM │nN │oO │pP │ALT │ ✓        │ yY │zZ │0_ │1+ │ALT │ ✓
  │ eE │fF │gG │hH │DEL │          │ qQ │rR │sS │tT │DEL │          │ 2- │3* │4& │5: │DEL │
  │ iI │jJ │kK │lL │Sh  │ ⊗        │ uU │vV │wW │xX │Sh  │ ⊗        │ 6. │7, │8! │9= │Sh  │ ⊗
  └─────────────────────┘          └─────────────────────┘          └─────────────────────┘
```
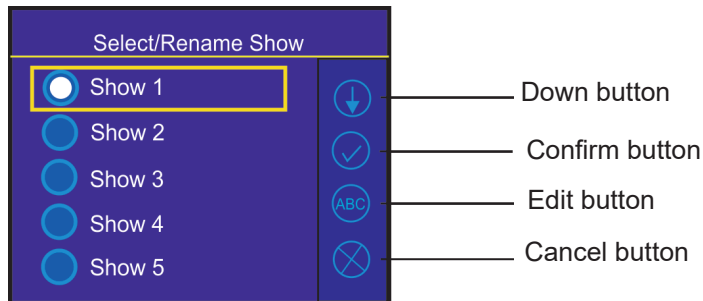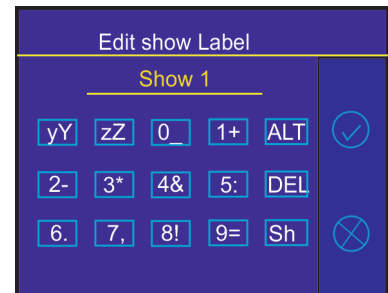
        DEL key - deletes a character
        Sh key - shift key, changes order of displayed characters aA ---> Aa.
The key 0_ serves as a space bar.

To export a show

1. Disconnect the FollowSpot Controller from the FollowSpot Controller base and connect a USB flash drive to the USB port on the bottom side of the FollowSpot Controller.

USB
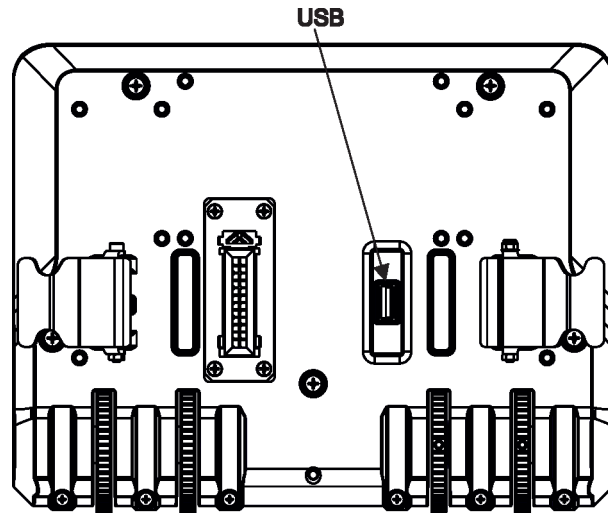
2. Press and hold the On button until the graphic touch screen will light (the screen lights about 20 sec and after that will be switched off unless you touch any icon).
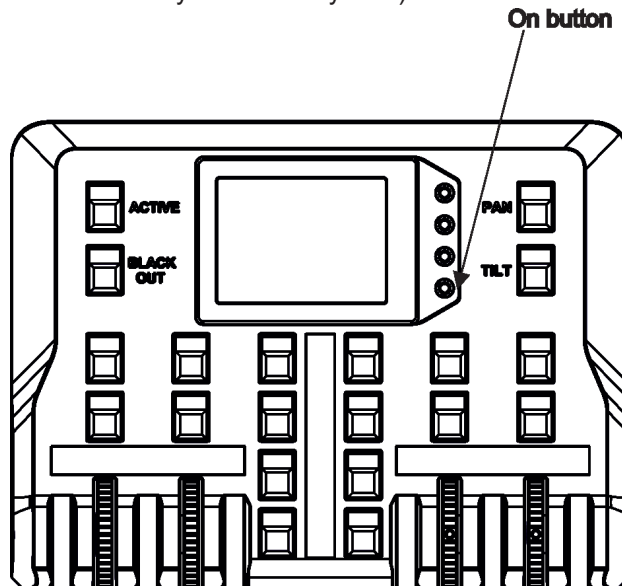
On button

3. Select option "Export Show"

4. Select show and confirm it.

Wait until the message "Show Saved" appears on the screen. Touch the Cancel button.

Default name of saved show file on the USB flash drive has the following sentence structure
e.g. lightmaster-1-0031.cfg
    lightmaster-2-0031.cfg
where the number 1 (2,3,...10) represents a number of show, the number 0031 represents last four numbers of RDM UID of the FollowSpot Controller.
Note: if you save some show more than once, original file is not overwritten, files are differentiated by a number after underscore character e.g:
    lightmaster-2-0031.cfg
    lightmaster-2-0031_1.cfg
    lightmaster-2-0031_2.cfg
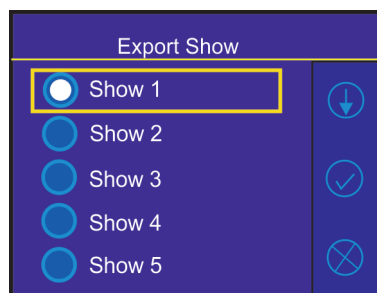
To import a show
1. Disconnect the FollowSpot Controller from the FollowSpot Controller base and connect a USB flash drive to the FollowSpot Controller and switch the graphic touch screen on as described above in article To export a show.

2.Select option "Import Show"

Show Library
Import Show
Export Show
New Show
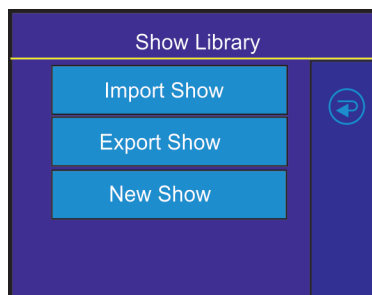
3. Select show to which you want to load a show file from the USB flash drive and confirm it.

Import Show
● Show 1
○ Show 2
○ Show 3
○ Show 4
○ Show 5
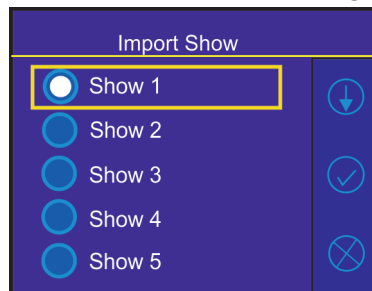
4. Select desired show file to load it.

Select show File
lightmaster-2-0031
lightmaster-5-0031
lightmaster-8-0031
lightmaster-8-0031_1

After loading, the message " Show Loaded" will appear on the screen: Touch the Cancel button.

5.3 Menu All Lamps On/Off

The menu item allows to switch on/off lamp in the Robin BMFL FollowSpot.

5.4 Menu Product IDs

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

5.5 Menu 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

5.6 Menu Settings

System Test - the menu allows you to test jog-wheels and faders.

Ethernet Settings - The menu allows to set the FollowSpot Controller for Ethernet operation.

> **Ethernet Mode**
>> **Artnet** - Fixture receives Artnet protocol
>> **gMAI** - Fixture receives MANet I 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.

Controls invert - the menu item allows you to invert faders of the Light Master.
Default settings of faders: fader down-minimum (0 DMX), fader up-maximum (255 DMX).

Faders Switch - swaps functions of faders.

Password Settings - the menu item allows you to change the password or switch it on/off at entry the

FollowSpot Controller menu.

> **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 entry the FollowSpot Controller menu.
Note: both menu items stated above require inserting of password to enter them even the password is set off ! You have to remember last set password!
In case you have forgotten your password, use the master password 4678.

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

Default Settings - The menu item allows you to set the items stated above (except Ethernet Settings) to default values.

Note: the password will not be set to a default password (set password will remain without change) but the option "Protect with Password will be set to On".

6. Software update

The FollowSpot Controller software update is done via a network connection between a computer running a ROBE RDM Uploader software through the RJ45 input of the FollowSpot Controller base. It is important to note, that the FollowSpot Controller IPv4 address has to be set to 2.x.x.x network (for example 2.0.1.10) with netmask 255.0.0.0 . During the update, the FollowSpot Controller has to be attached to FollowSpot Controller base and this base has to be connected to the Robin iForte LTX WB by means of the USB cable. The Robin iForte LTX WB has to be connected to mains.

To update software in the FollowSpot Controller.
1. Connect a computer running ROBE RDM Uploader to the internet and update software libraries (Libraries → Update)
2. Connect the computer and the FollowSpot Controller base via Ethernet cable.
3. Set computer to address 2.x.x.x/255.0.0.0. Do not change any IP settings on the FollowSpot Controller.
4. Use the ROBE Uploader → Devices → Discovery and Devices → Update. This will update the FollowSpot Controller.


USB   RJ 45
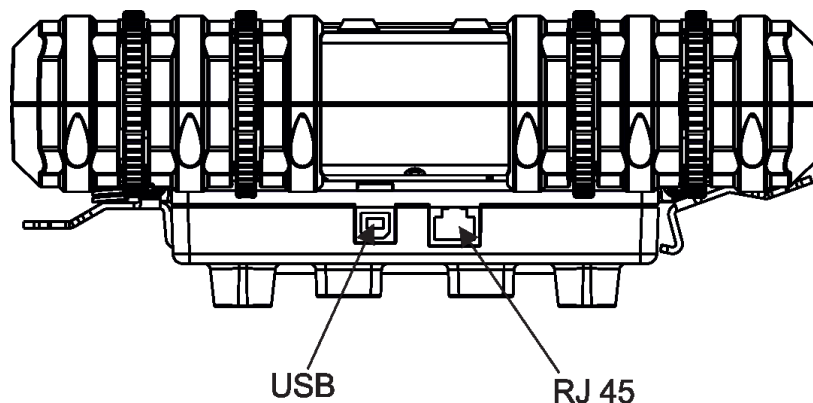
7. Technical specifications

Input voltage: 5V DC
Setting & Control: graphic touch screen
Number of control elements: 20 buttons, 4 jog-wheels and 2 faders
Connection: 1 x USB A,1x USB B, 1x RJ45
Fastening: via 7 screws (rear version), via 4 screws (side version)
Weight: 3.5 kg (side version),8.1 kg (rear version)
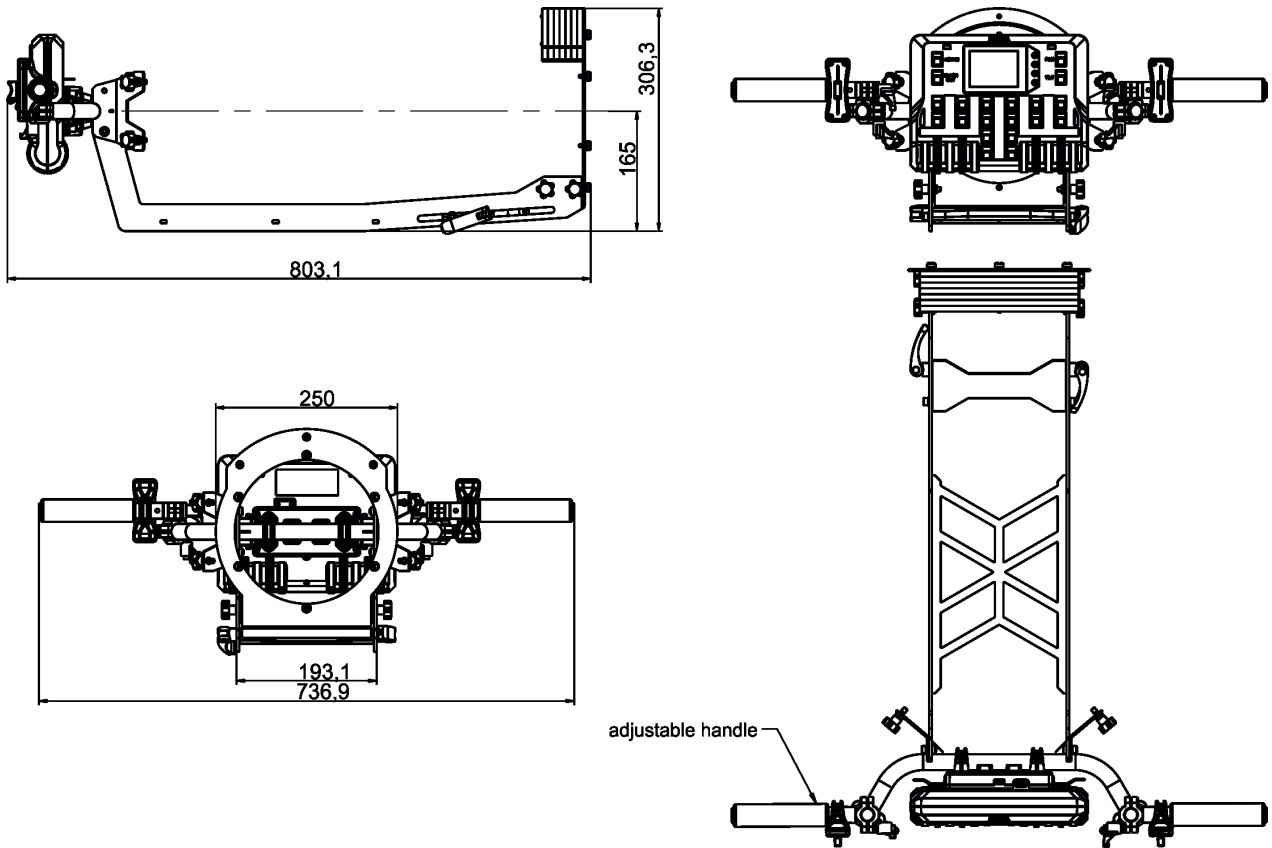Compatible device: Robin iForte LTX WB

Dimensions (mm)

Side version
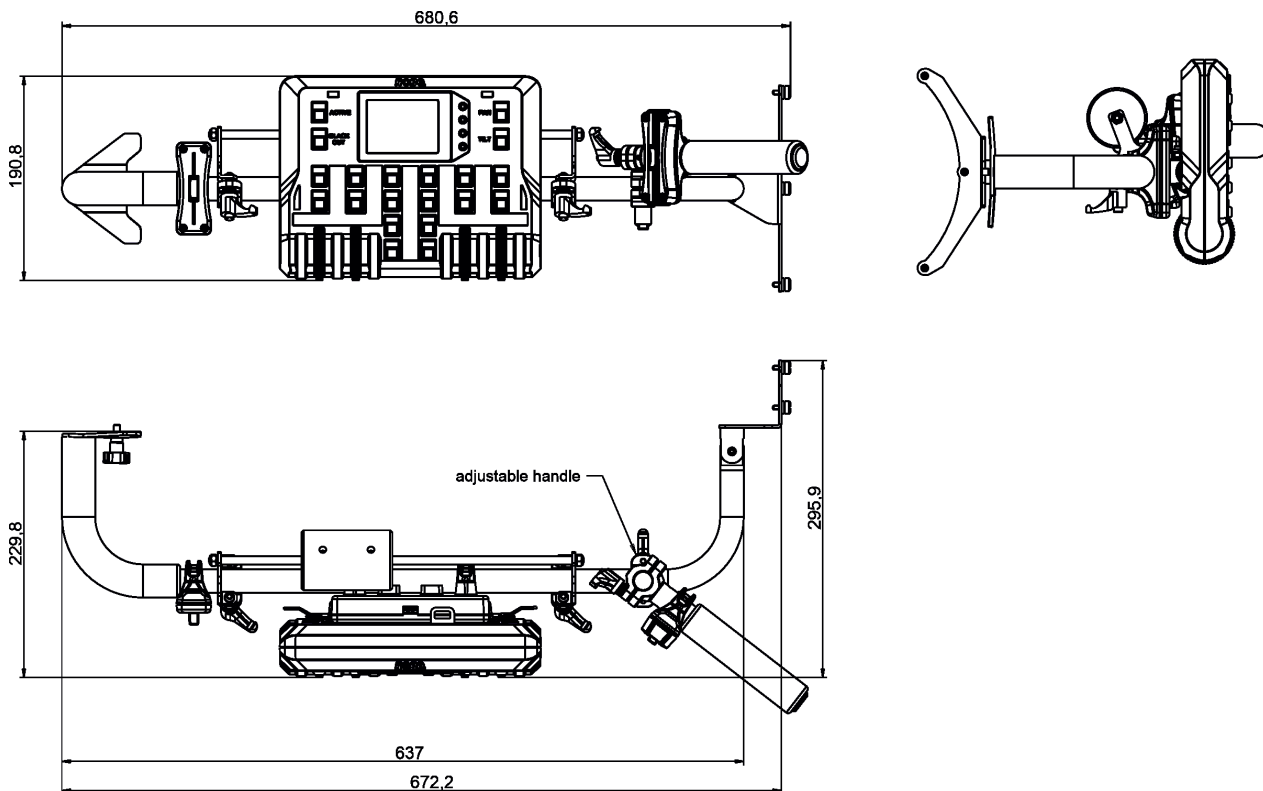
Rear version

Included items

       1 x Robin iForte LTX LightMaster Side Kit set (P/N 10080346) or Rear Kit
          set (P/N 10080349)
       1 x User manual

8. Cleaning and maintenance

A soft lint-free cloth moistened with suitable cleaning fluid is recommended, under no circumstances should solvents be used!
More complicated maintenance and service operations are only to be carried out by authorized distributors.

8.1 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.