

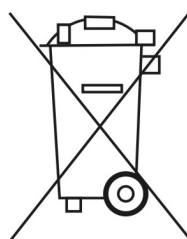
istruzioni per l'uso
operating instructions
Bedienungsanleitung
instrucciones de
manejo
mode d'emploi
gebruiksaanwijzing

01207190

Astro 250 Wi-fi RGBW
DMX512+RDM LED

01207390

Astro 250 Wi-fi RGBW HP
DMX512+RDM LED



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ENGLISH

Thank you for choosing a quality product from Luci della Ribalta srl. We trust our products and services meet your requirements, but if not please contact us directly using the attached feedback form to help us improve the quality of our service.

This product has been manufactured with great care and left our factory in perfect conditions, but if it has been damaged in transport please contact your dealer in the first instance. A feedback form is appended. Our warranty covers all manufacturing and component defects for 2 years from the date you purchased the product.

Our products are designed for the use of professional technicians, and the instructions provided here ensure safe and correct operation of this product. Luci della Ribalta srl will not accept any responsibility where damage has been caused to the product or persons through improper use of the product and/or non-compliance with the regulations described herein.

IMPORTANT: Read these user instructions before using the lighting unit

The instructions given here ensure a safe and correct usage of this product. A user's failure to comply with the installation, operating, maintenance and safety procedures mentioned in this manual, as well as those generally applicable to this lighting equipment, may cause the unit not to perform as expected.

Luci della Ribalta Srl accepts no liability for direct, indirect, incidental, special, or consequential damages resulting from the customer's failure to follow the installation, operating, maintenance and safety procedures in this manual or those generally applicable to lighting equipments.

The limitation extends to damages for personal injury, property damage, loss of operations, loss of profits, loss of product or loss of time, whether incurred in by the customer, the customer's employees or a third party.

Apart from the instructions given on this manual, all relevant safety and health standards of the appropriate Directives of the country where the unit will be installed must be complied with.

1. IMPORTANT SAFETY NORMS

- This product is a professional lighting fixture, namely a followspot, fitted with a LED light source, which can only be operated by professional staff.
- Warning, high voltage ignition. Disconnect the unit from power before servicing
- Continuous mains power is required for this spotlight as an internal dimmer controls the intensity via DMX or local rotary knob. An accessory clamp-on digital dimmer is furthermore available for positioning on the side grab handles of the followspot
- Use of a phase control dimmed mains supply may damage the internal electronics
- This product features fan-assisted ventilation. Make sure you do not cover the fans or obstruct the air flow at any time
- Make sure all fans are working correctly at any one time. Should you detect even the slightest malfunction, switch the luminaire off and carry out the necessary servicing. Replace the fans if necessary.

- This product is rated IP 20 and is therefore designed for interior use only. For details on maximum ambient temperature and tilt angle please refer to what indicated on the product label or screen-printing on the side of the lens-tube or the rear of the LED-house
- Repairing and replacement of any component of this product must be carried out exclusively by professional personnel in conformity with the relevant safety and health standards and only with original Luci della Ribalta srl components.
- Replacement of any part of the wiring system must be carried out exclusively by professional personnel in compliance with the original wiring diagram and with components identical to or compatible with those originally fitted.
- Installation of this product must be exclusively carried out by professional personnel in compliance with the safety norms in force in the country where the product is used.



**WARNING: DANGER OF ELECTRICAL SHOCK
DO NOT OPERATE ON LIVE EQUIPMENT**

- Disconnect power before opening this fixture to access its light source or electronics.
- The replacement of the LED source or any of its electronic components can be carried out exclusively by professional personnel upon LDR's written authorization and only with original Luci della Ribalta srl components. Failure to obtain the manufacturer's authorization to carry out the replacement/repair, will immediately invalidate the product's warranty



WARNING: EYE DAMAGE HAZARD

Make sure this fixture is installed so as to avoid prolonged direct staring at its operating light source (LED) from a distance of less than 7m / 23ft.



WARNING: FIRE HAZARD

- Never locate this fixture on any flammable surface.
- Minimum distance of any part of the body of the luminaire from any flammable surface or object: 0,5m / 20in
- Minimum distance from lit surface, please refer to the product label
- Make sure the mains power supply the fixture will be connected to is protected by a suitable thermal magnetic circuit breaker

2. WARNING ON COB-SOURCE LUMINAIRES: CORRECT HANDLING, INSTALLATION AND MAINTENANCE

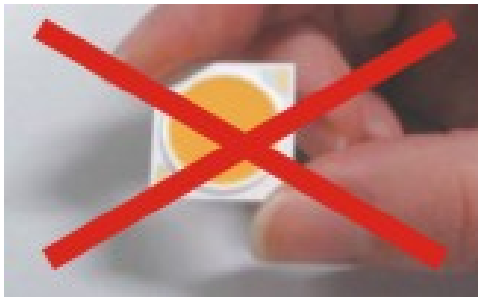
LED-source luminaires need special care when choosing where to install them as the COB is a very sophisticated piece of electronics, which is very sensitive to natural or chemical air pollutants or dust of any origin. When the installation of the Astro 250 in venues where fog or haze machines are also being used or wherever air pollution of any sort cannot be avoided please be aware that the COB might suffer fatal damages which might dramatically shorten its life or reduce its performance.

Contact a certified LDR distributor in case of residuals or other objects located on the surface of the LED source or whenever a COB becomes damaged for any reason.

CAUTION: DO NOT ATTEMPT TO CLEAN IT IN ANY WAY

As general rules please consider the following:

- do not touch the surface of the LED source
- do not rub it
- do not put mechanical stress on the COB especially on the resin area. It may cause LED light to stop functioning
- do not expose the COB to direct compressed-air flux
- ensure that no objects attach or put pressure on the resin area



- do not use sharp objects like tweezers to pick up or hold LED packages. The wire inside the resin area may disconnect, thus causing the light to stop functioning



The resin area includes both the light emitting area and the white dam area.

- avoid anything sharp to press, put stress on, rub, attach or make contact with the resin as this might negatively affect the function, performance and reliability of this product.



The COB contains silicone to protect the LED dies and the silicone is gas permeable. Some VOCs (Volatile Organic Compound) and chemicals will cause discoloration, surface damage, cracking or erosion. Here below the list of harmful materials which will damage the silicone. Please do not use them together with the LED package. If it is necessary to use them together, please test them before use.

- acetic acid
- ammonia
- benzene
- castor oil
- dichloromethane
- gasoline
- halogenated hydrocarbons (containing F, Cl, Br elements)
- hydrochloric acid / hypochlorous acid
- lard
- linseed oil
- MEK (Methyl Ethyl Ketone)
- MIBK (Methyl Isobutyl Ketone)
- mineral spirits
- nitric acid
- petroleum
- potassium hydroxide / potassium hypohydrite
- rosin flux
- silicone oil
- sodium hydroxide / sodium hypohydrite
- sulfuric acid
- tetrachloromethane
- toluene
- xylene

3. BOX CONTENT

A. Standard followspot

Astro followspot in the chosen model
Separate mains power cable with Power-Con
Ø28mm/1.12in spigot for followspot
Fitted Iris diaphragm
Clamp-on digital dimmer A20702071
Universal mobile device holder A20702073

B. Kit followspot

Astro f.spot in the chosen model in flight case
Separate mains power cable with Power-Con
Ø28mm/1.12in spigot for followspot
fitted Iris diaphragm
Clamp-on digital dimmer A20702071
Universal mobile device holder A20702073
Black follow-spot tripod

4. WEIGHT AND DIMENSIONS

A. Standard followspot

net weight: 20,3 kg
gross weight: 25,4 kg
packing dimensions: 102x45x43h cm

B. Kit followspot

net weight: 28,7kg
gross weight: 62,7
packing dimensions: 60x120x71h cm

5. MOUNTING THE SPIGOT

This product is a followspot meant for tripod- or pole-mounting only and is therefore not fitted with any secondary fixing point. Do not hang it.

A spigot is supplied in standard delivery for you to tripod-mount your followspot.

- Make sure the tripod you are going to use can withstand the product load as indicated on the product's label
- Make sure the tripod you are going to use features a top aperture over 28mm/1.12in dia.
- Remove the M12 nut and the washer from the spigot.
- Insert the spigot in the central hole of the yoke of the followspot from beneath the yoke.
- Add the plain screw and the M12 self- locking nut and tighten the nut with a suitable tool.
- Mount the followspot on the tripod.

6. MOUNTING / REPLACING THE IRIS DIAPHRAGM – supplied

The iris diaphragm supplied with the followspot has 20 leaves to size the beam from a maximum aperture of 68mm/2.67in to a minimum of 5mm/0.19in. The iris comes already fitted, so you will only have to refer to this section in case you need to remove or replace the iris.

- Using a Phillips screw-driver (M4) remove the two cross-head screws from the sides of the iris plate
- By pulling (to remove) or pushing (to insert) from the lever handle, slide the iris diaphragm out of/ in to the gate area
- Fix the iris in position by tightening the previously removed screws

Important notice: do not leave the iris totally closed for over 5 minutes while the LED is on

FAILURE TO COMPLY WITH THE ABOVE NOTICE MAY CAUSE THE IRIS AND THE FOLLOWSPOT TO SUFFER MAJOR HEAT DAMAGES AND WILL INVALIDATE THE PRODUCT WARRANTY

7. MOUNTING / REPLACING THE GOBO-HOLDER – not supplied

Astro followspots can be fitted with a gobo holder – not supplied in standard delivery but obtainable as a separate accessory, for the projection of:

- | | |
|---------------------------|--------------------|
| • A-or B-size metal gobos | part # A20100807 |
| • A-size glass gobo | part # A20100807/A |
| • B-size glass gobo | part # A20100807/B |

The gobo holder must be inserted in the gate area instead of the iris diaphragm. Usage of both accessories at the same time is not possible.

In order to fit or replace a gobo holder, please:

- Remove the iris diaphragm if fitted (see above)
- Slide the gobo-holder in the gate area – bent metal wings must look to the LED-house
- Make sure it is correctly positioned and apply pressure to the plastic holder if needed

CAUTION: the metal surface of the gobo holder reaches very high temperatures during operation. Make sure the unit is totally cold before attempting to remove it, protect your hands with gloves and avoid skin direct contact with its metal surface

8. BLACK SHUTTER BLADES (accessory, part nr. R80208019 x 4)

Black shutter blades are not supplied with the unit but are available as separate accessory. They are sold as single items and relevant part number is R80208019 ; 4x are required.

9. ADJUSTING THE YOKE

This followspot is provided with a yoke balancing adjustment. The balancing point is factory-set for the standard product configuration supplied (without colour-changer). However, should you need to adjust the balancing, please follow the procedure here below:

- The followspot must be mounted on the tripod stand with all relevant accessories attached.
- Using a Phillips screw driver, loosen the 2x M5 screws on each side of the yoke.
- Gently slide the followspot backwards or forwards to the required position.
- Make sure the yoke is correctly aligned horizontally.
- Tighten the 4x M5 screws

10. IMPORTANT NOTICE BEFORE THE INSTALLATION / INSTALLATION

This fixture is meant for tripod-mount installation only. No hanging is allowed. Before installing this fixture check its weight on the product label and the weight of each accessory you are adding and make sure the structure you are installing it to withstands the total weight. The mounting stirrup is designed to allow the spotlight to be fitted to a suitable tripod or pole.

CAUTION

DO NOT TURN THE LUMINAIRE UPSIDE-DOWN AND MAKE SURE THE STIRRUP ALWAYS SITS DOWNWARDS

Note: the fixture's location must provide suitable ventilation for the LED module.

11. WIRING

Before being connected to the mains power, this unit may need to be wired with a suitable plug if not already installed. Make sure the plug you are using is rated for the proper power load.

This fixture must be grounded

Ensure the plug conforms to the relevant EU/UL or local electrical standards

To perform a correct wiring, please note that the cores in this mains lead are colour-coded as follows:

Ground: green+yellow – Neutral: blue - Phase: brown

In case the colours of the wires do not correspond to the colour of the connection points on your plug, please proceed as follows:

- The green or green and yellow wire must be connected to the connection point marked with the letter E or with the symbol  or coloured in green or in green-yellow
- The blue wire must be connected to the connection point marked with the letter N or coloured in black
- The brown wire must be connected to the connection point marked with the letter L or coloured in red

Before you finally position this product for use, temporarily connect it to a properly fused power supply to check the unit works correctly.

12. VOLTAGE

Before operating this unit please refer to the screen-printing on the right-hand side panel of the lens-tube – where the zoom control knobs are located - to check you are operating with the correct voltage. The Astro 250 LED can be operated between 100V and 260 VAC.

13. FREQUENCY

Frequency on this product is automatically selected by the electronic PSU (50/60Hz)

14. CONNECT TO THE POWER SUPPLY

- Connect the unit to a continuous mains power source
- Make sure the power supply is protected by a suitable thermal magnetic circuit breaker
- This fixture must be grounded

15. MECHANICAL OPERATION

Focus control: this fixture features a variable beam angle from 7° to 12° which can be controlled through the two control knobs on the right-hand side of the lens-tube.

The variable beam is modified by adjusting the front and rear zoom lenses in relation to each other. The front lens defines the beam spread, the rear lens defines the focus degree of 'softness' or 'hardness' of the beam edge or shutters.

Gently turn the knobs anti-clockwise until you have reached the desired size/focus of the beam in relation to the distance you are projecting at.

Turn the knobs clockwise and tightly close them so that the lenses are held in position at any tilt angle

Beam-sizing: the size of the beam is controlled using the supplied iris diaphragm

Beam-dimming and black-out: this followspot can be dimmed by:

- Local manual control, rotary switch on the backplate of the unit
- Local, via clamp-on digital dimmer, supplied in the standard and kit version – see relevant instructions
- Remote, by DMX512 signal

CAUTION: Make sure you always use one of the above options to black-out the light and never the sizing iris diaphragm, as keeping the latter closed may cause overheating, damage and even fire inside the LED-house.

Pan & Tilt control: this unit is fitted with 2 soft, comfortable side bars covering the full length of the followspot for an easy and safe control of the pan and tilt angle by the followspot's operator from any position.

The stirrup is factory-balanced and fitted with a positive friction clamp controlled by a user-friendly, effective lever-knob. Turn the knob anticlockwise to release it, position the followspot at the desired tilt angle and turn the lever clockwise to hold the desired position.

Press the button at the top of the lever and keep it pressed while turning the lever if you need to change its position.

Make sure the lever is softly tightened at any time during operation

A smooth pan-movement is guaranteed by the provided spigot.

For extra stability and smoothness a spigot with fluid head, pictured here below, is available as extra accessory under part # A20102100



16. LOCAL CONTROL PANEL AND OPERATION

OPERATION: LCD display for DMX address, system setup and status details.

POWER: power LED status indicator, red colour. ON= power

DMX: DMX LED status indicator, green colour. LED OFF = DMX OFF and manual control activated, LED ON = DMX MODE activated with no DMX signal, FLASHING LED = receiving DMX

MENU: rotary switch selector to select and modify the operational modes.

Turn left or right to navigate through the menu and press to select or to confirm

DMX IN: input DMX signal (pin1=0, pin2= DATA-, pin3=DATA+).

DMX OUT: Loop through DMX signal output

POWER IN: Mains power input

POWER OUT: Mains power output

17. MENU

There are twenty-two different menus to control the settings of ASTRO RGBW LED. The rotary selector is used to adjust the settings and to navigate through the menu. Turn left or right to select the menu and push to access or to confirm the selected data or functions. To exit the selected menus without saving the data, press the rotary selector for at least 1 second.

17.1 Wi-Fi, DMX OR MANUAL (Mode)

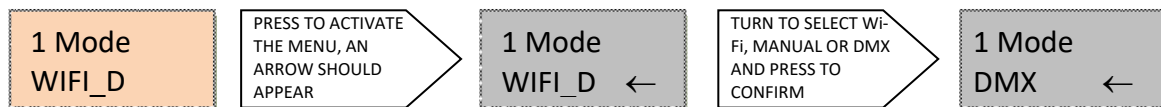
Colour control of the Astro is achieved through a totally innovative technology. The Astro Wi-Fi generates a proprietary Wi-Fi access which will recognize one device only and whose range reaches 12/15m. Access to the Wi-Fi access is protected by password. A universal mobile phone-holder (3.5/6.5in), rotatable over 360°, supplied with the Astro and clamped on the side bar, allows the installation of a mobile device, either IOS or Android to take control of the followspot.

If the Astro was purchased complete with the LDR controller A20702074 Smartphone Honor 75 Black, pre-loaded with the Android Art-Net Controller app, relevant settings and libraries, **(available as an optional accessory)**, it is ready to be operated.

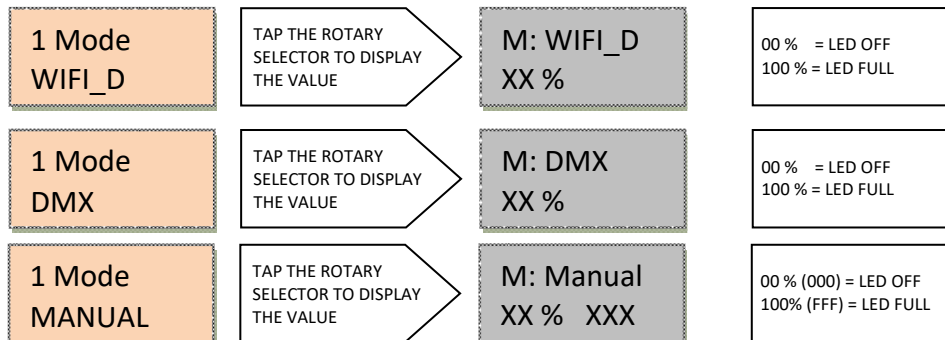
In case you are using your own mobile device, please refer to chapter 18 and 19 of this manual for all the necessary steps needed to set up the control system.

Select the LED control mode between Wi-Fi (factory setting – if you want to control the colour mixing through a mobile device), DMX and manual. To change the control mode press once the rotary selector until an arrow (←) appears on the menu. Turn the selector to the right or the left to select the desired mode of operation and press to confirm your selection.

In order to work properly with an external mobile device the Astro must be set in Wi-Fi mode at the default settings. If default settings have been changed, please refer to chapter 16.23-B to reset the product to factory settings.



Tap the rotary selector and the LCD screen will display the mode status and the current value:

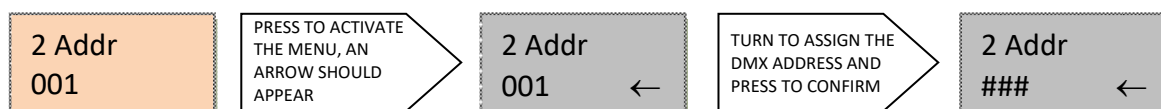


IMPORTANT NOTICE

If the Astro is used in Wi-Fi mode, DO NOT CHANGE the default levels because the colours generated by the controlling App depend on these.

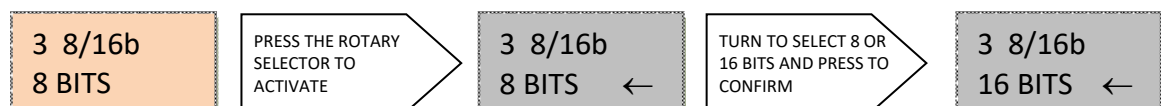
17.2 DMX ADDRESS (Addr)

It allows to select the initial DMX starting address to remotely control the LED functions. To change the initial DMX address press the rotary switch until an arrow appears, then turn to change to the desired DMX starting address. Press to confirm your selection. Factory setting is 001.



17.3 DIMMER RESOLUTION (8/16b)

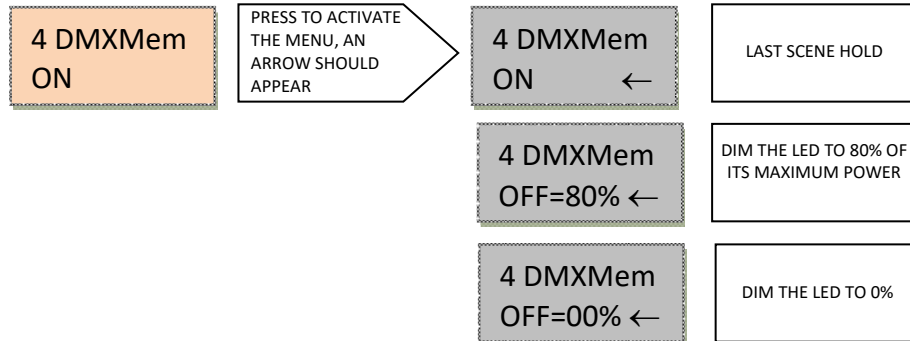
The dimming resolution can be controlled at 8 bits from one DMX channel to 16 bits with 2 DMX channels. Factory setting is 8 Bit.



17.4 LOST DMX SIGNAL (DMXMem)

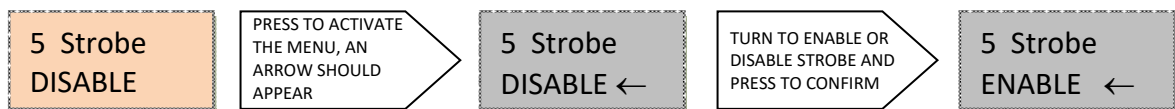
In case of signal failure this function allows to store in memory the last DMX value. This function is forced ON in Wi-Fi mode. Factory setting is ON.

Three options are available:



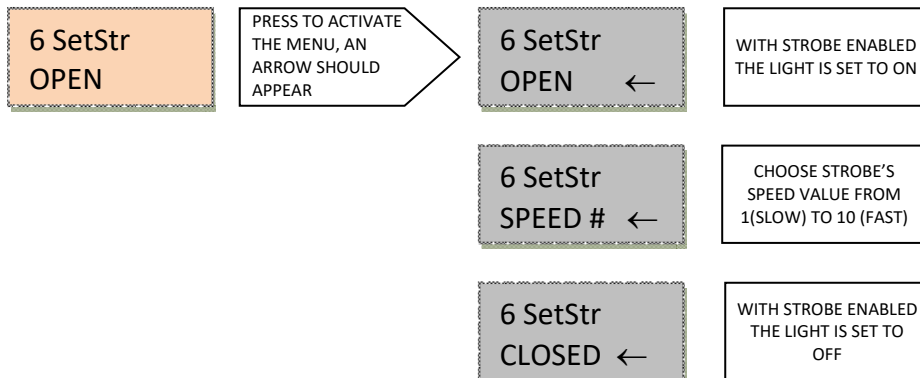
17.5 STROBE (Strobe)

This function allows to activate the strobe function. Factory setting is DISABLE.



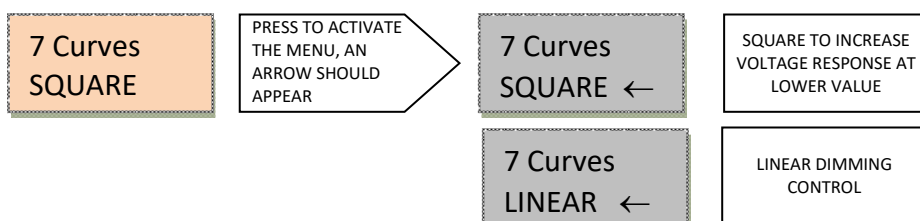
17.6 STROBE SPEED (SetStr)

It allows to set the strobe speed. This menu is not active when the strobe function is disabled or when it is remotely controlled through DMX. Factory setting is OPEN.



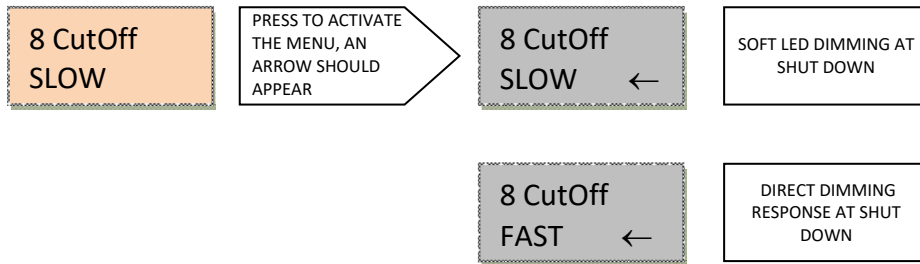
17.7 DIMMING CURVE (Curves)

This function allows to select a response curve for the Astro. A choice of two curves is available: Square and Linear. Factory setting is SQUARE.



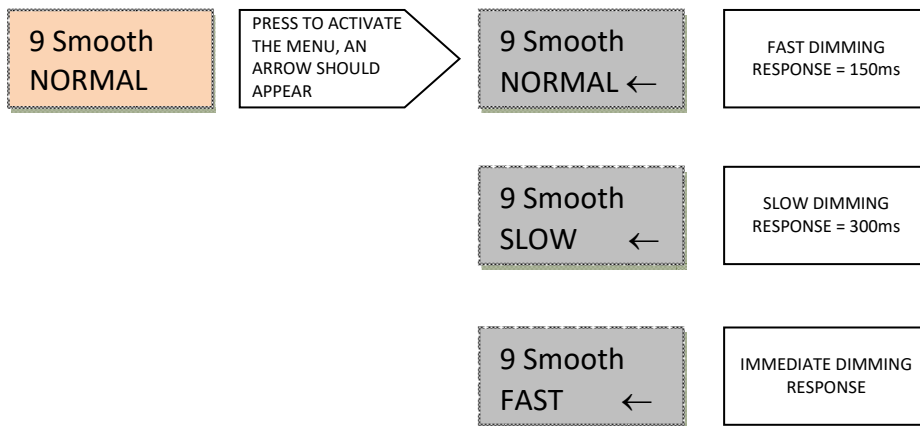
17.8 CUT OFF DIMMING RESPONSE (CutOff)

This function allows to select a LED behaviour simulating a tungsten-halogen lamp during the dimming cut off. Factory setting is SLOW.



17.9 DIMMING BEHAVIOUR (Smooth)

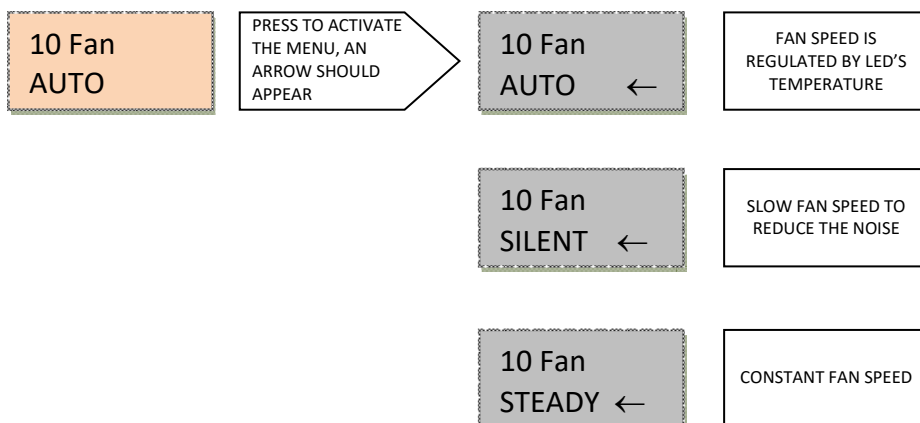
This function allows to set the LED dimming response. Factory setting is NORMAL.



17.10 FAN SETTING (Fan)

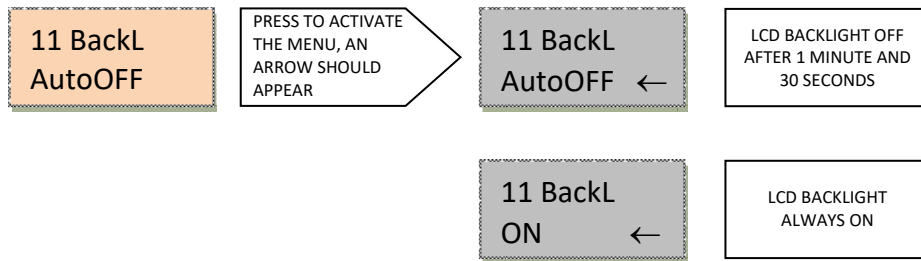
This function allows to set the fan's response. A choice of three modes is available: Automatic, Silent or Steady. When the fan is in Auto mode, the speed is regulated by the LED temperature. In Silent mode the fan runs slowly to reduce the noise. In Steady mode the fan runs at constant speed, halfway between the minimum and maximum speed. In all cases, if the LED temperature exceeds the maximum admitted value, the LED is protected by a de-rating security system.

Factory setting is AUTO.



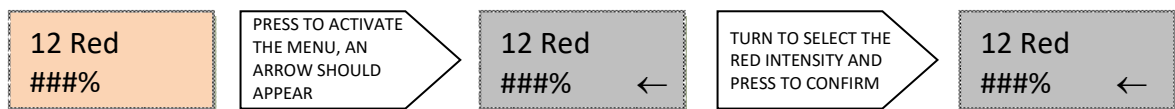
17.11 LCD SCREEN ILLUMINATION (BackL)

This function allows to turn off the LCD backlight, the LED POWER and LED DMX after 1'30" from last setting. Factory setting is AutoOFF.



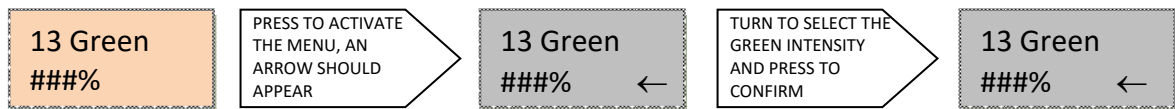
17.12 RED COLOUR INTENSITY (Red)

This function allows to set the intensity of the red colour for manual mode. When selecting the manual mode, 100% is automatically set.



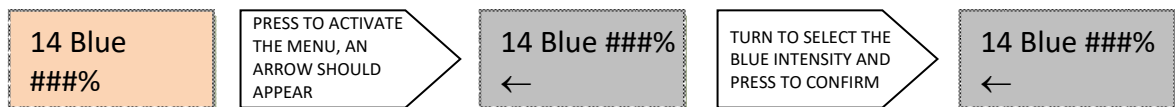
17.13 GREEN COLOUR INTENSITY (Green)

This function allows to set the intensity of the green colour for manual mode. When selecting the manual mode, 100% is automatically set.



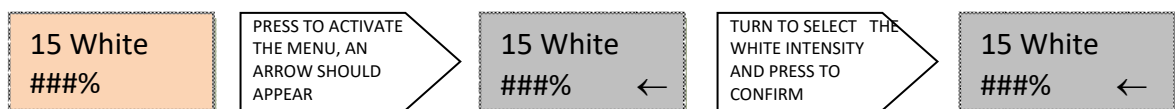
17.14 BLUE COLOUR INTENSITY (Blue)

This function allows to set the intensity of the blue colour for manual mode. When selecting the manual mode, 100% is automatically set.



17.15 WHITE COLOUR INTENSITY (White)

This function allows to set the intensity of the white colour for manual mode. When selecting the manual mode, 100% is automatically set.



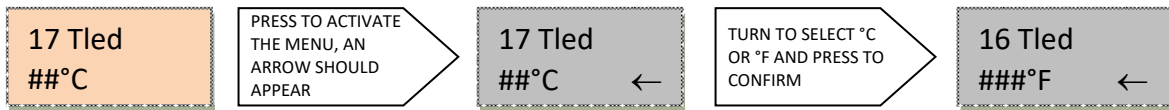
17.16 WHITE COLOUR TEMPERATURE SELECTION (Col.T):

This function allows to choose between 10 different white colour temperatures for manual mode. This function overwrites any setting made on the RGBW menus (see chapters 17.12, 17.13, 17.14 and 17.15 of this manual). When selecting the manual mode, 100% is automatically set.



17.17 TEMPERATURE CONTROL (Tled)

This function allows to visualize the LED temperature. Factory setting is °C.

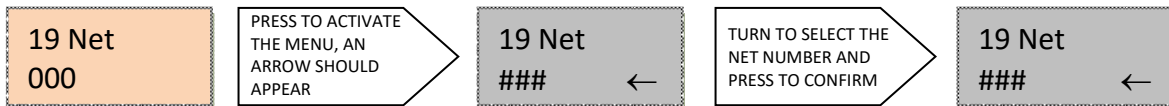


17.18 SOFTWARE VERSION (SwVer)

This function allows to visualize the software version.

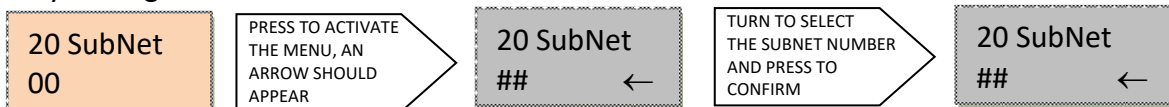
17.19 NET (Net)

The apps used in Wi-Fi mode work with Art-Net 3 protocol. The Port-Address is composed of three separate fields: NET, SUB-NET and UNIVERSE. This function allows to set the NET field, in a range between 0 and 128. Factory setting is 000.



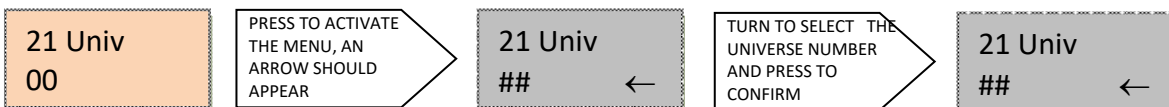
17.20 SUB-NET (SubNet)

This function allows to set the SUB-NET field of Art-Net 3 Port-Address, in a range between 0 and 15. Factory setting is 00.



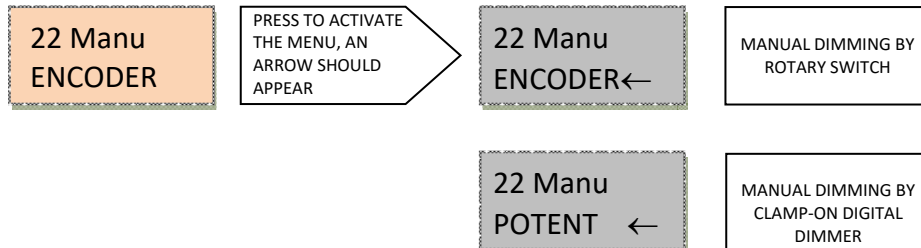
17.21 UNIVERSE (Univ)

This function allows to set the UNIVERSE field of Art-Net 3 Port-Address, in a range between 0 and 15. Factory setting is 00.



17.22 MANUAL DIMMER TYPE (Manu)

This function allows to select the manual dimmer type when Astro is set in Manual mode (see chapter 17.1). When in Wi-Fi mode this setting is disregarded, as dimming on the Astro will be achieved through the manually operated Digital Clamp-on Dimmer A20702071, supplied, or through the external mobile device. For full details on the Digital Clamp-on Dimmer please refer to the instruction manual provided with this device. Factory setting is ENCODER.



There are also nine different hidden menus which allow to select the advanced settings of the ASTRO WI-FI RGBW. To activate this function turn OFF and then ON again the Astro by pressing the rotary switch at power on.

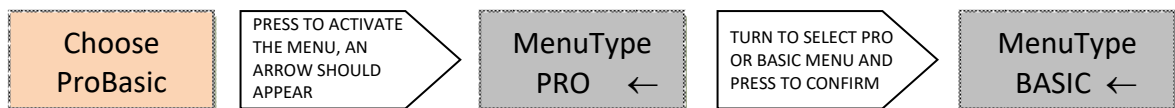
17.23-A PRO or BASIC CONTROL (ProBasic)

The PRO-BASIC control is a special function which allows to limit the access to the control menu. Select ProBasic with the rotary switch and press to access the menu. Select:

PRO, to enable access to all the functions

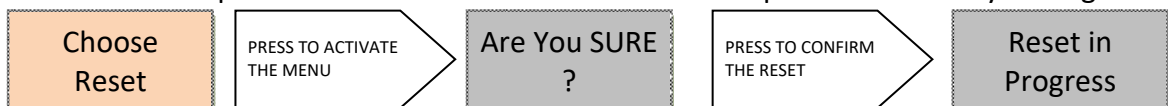
BASIC, to limit the access to functions 17.1 Wi-Fi, DMX or MANUAL MODE, 17.2 DMX ADDRESS, 17.12 - 17.13 - 17.14 - 17.15 RGBW Colour intensity, 17.16 White Colour Temperature selection (in DMX or manual mode), 17.17 Temperature Control, 17.18 Software version and 17.19 - 17.20 - 17.21 Net, Sub-Net and Universe for Art-Net Port-Address (in Wi-fi mode).

Factory setting is PRO.



17.24-B FACTORY SETTINGS (Reset)

The RESET control is a special function which allows to RESET the product to factory settings.



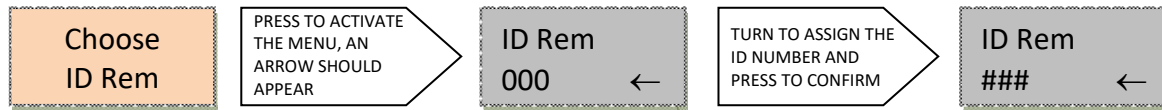
17.25-C ID REMOTO (ID Rem)

Remoto is a control device which allows to upgrade your Astro with the latest software version or to load and download stored info. It is available as an optional accessory as follows

A20702072 REMOTO control unit

This function allows to select the ID number to connect Astro to Remoto. To change the initial ID press the rotary switch until an arrow appears, then turn again to change to the desired ID number.

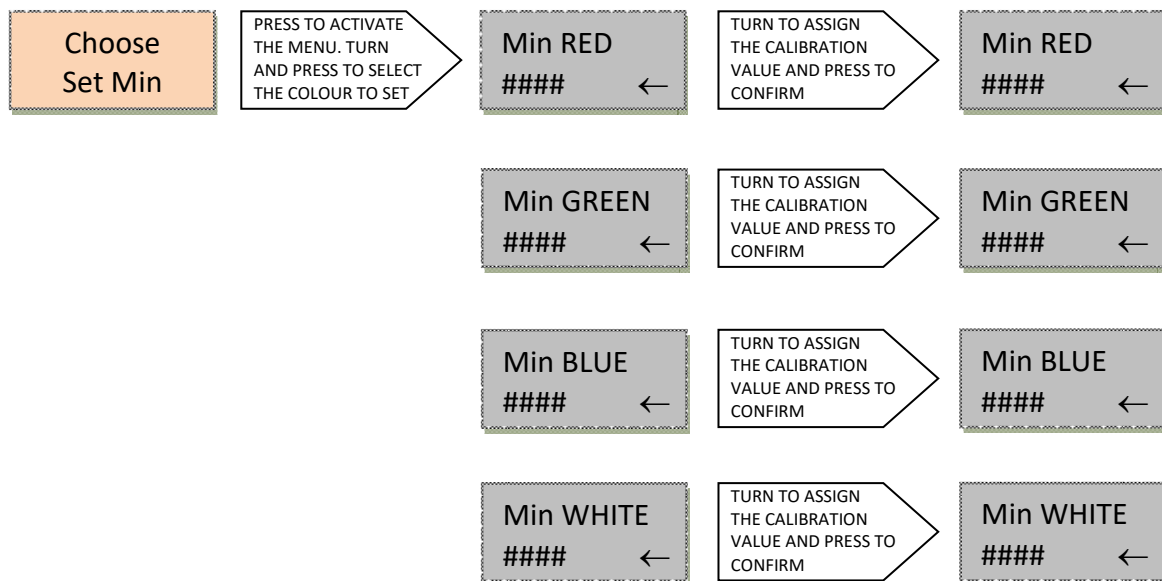
Press to confirm your selection. It is possible to select an ID number's value between 0 and 250. If the ID number=0, remote control is not active. Factory setting is 000.



17.26-D CALIBRATION (Set Min)

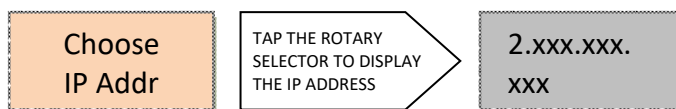
It allows to calibrate the minimum output level of each colour.

NOTICE: Reset does not restore the default settings of minimum levels.



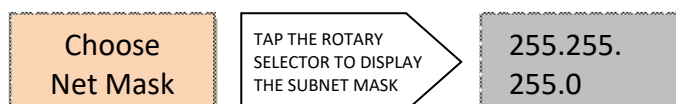
17.27-E IP ADDRESS (IP Addr)

It allows to view the Astro IP address when operating in Wi-Fi mode. The IP address cannot be changed and it is necessary to correctly connect the external mobile device to the ASTRO



17.28-F SUBNET MASK (Net Mask)

It allows to view the Astro Subnet Mask when operating in Wi-Fi mode. Subnet Mask can't be changed.

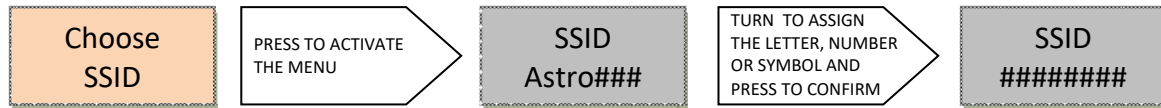


17.29-G SERVICE SET IDENTIFIER (SSID)

It allows to set the name of the network generated by the Astro.

Default SSID is “Astro###”, where “###” is a value between “000” and “254”. Because the SSID is assigned randomly, you might experience the unlikely case of receiving different fixtures with identical SSID. In order to avoid conflicts, we strongly recommend you change the SSID name of your Astro should you have purchased more than one unit. You will be allowed to create an 8 digits password of your choice.

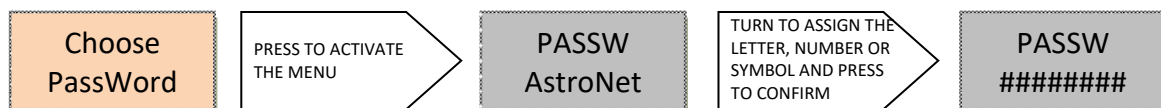
NOTICE: Reset (see chapter 17.24-B) does not restore the default settings of SSID.



17.30-H PASSWORD (PassWord)

It allows to set a password to connect the controller (mobile device) to the network generated by Astro. Default password is “AstroNet”. We strongly recommend you change the SSID name of your Astro should you have purchased more than one unit. You will be allowed to create an 8 digits password of your choice.

NOTICE: Reset (see chapter 17.24-B) does not restore the default password settings.



17.31-I EXIT HIDDEN MENU (Exit)

It allows to exit from hidden menus.

18. APP SETTINGS AND OPERATION FROM LDR MOBILE CONTROLLER

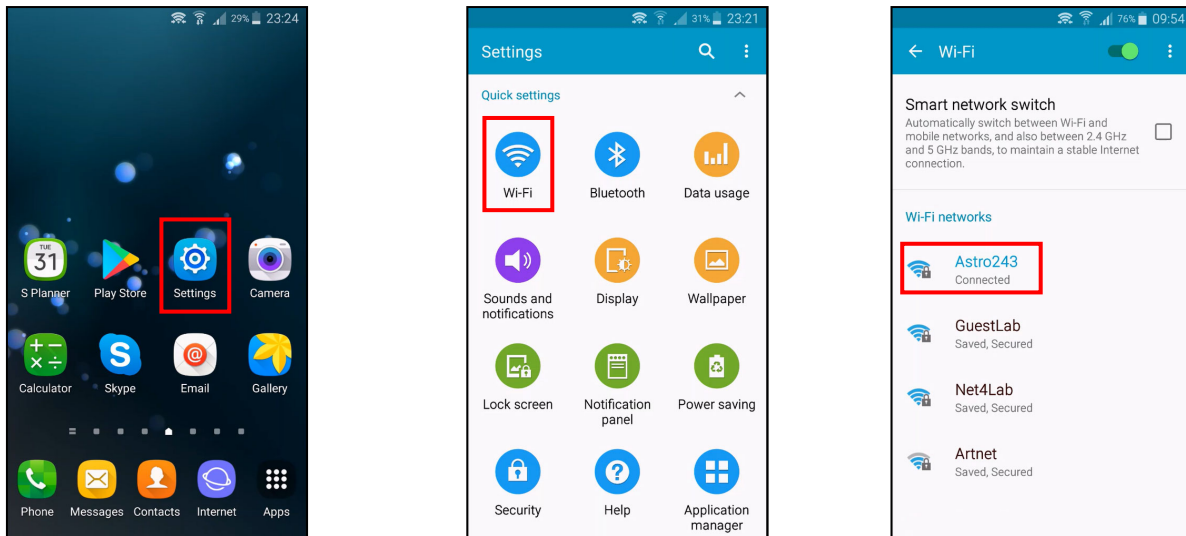
SMARTPHONE HONOR 7S BLACK – # A20702074 – optional accessory

If the Astro was purchased complete with the LDR controller A20702074 Smartphone Honor 7S Black, (**available as an optional accessory**), pre-loaded with the Android Art-Net Controller app, relevant settings and libraries, it is ready to be operated.

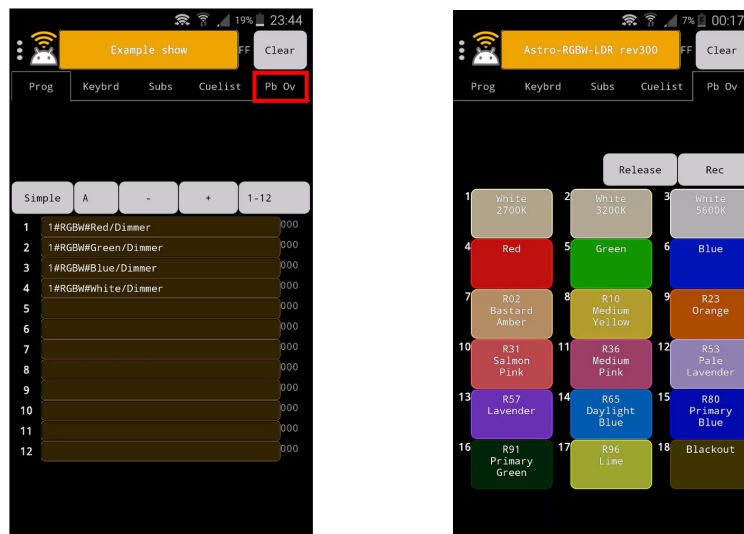
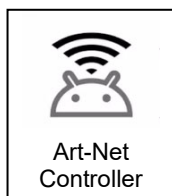
In case you are using your own mobile device, please refer to chapter 17 and 18 of this manual for all the necessary steps needed to set up the control system under either IOS or Android.

Set the Operation Mode of the ASTRO to WI-FI (refer to chapter 17.1)

Make sure the controller is connected to the network generated by Astro. From the home screen, tap **Settings** → **Wi-Fi** and check that the controller is connected to the Wi-Fi network “**Astroxxx**”.



Click on the Art-Net Controller icon: from the home screen, tap **Pb Ov**, which will bring you to the existing library of colours, which also includes 3 whites (2700K, 3200K and 5600K) and a black-out option. Click on the chosen colour to have it on. In order to change colour simply click on the following one.



Should you need to create and store more cues, please refer to chapter 18.3 of this manual.

19. APP SETTINGS AND OPERATION FROM USER'S ANDROID MOBILE CONTROLLER

If you are planning to use an ANDROID mobile device of your own to control the ASTRO WI-FI, please carefully follow the here-below described steps to ensure a correct configuration of your mobile device.

19.1 SETTINGS

- From the Play Store, download and install **Art-Net Controller** and **Art-Net Controller Libraries** Apps.

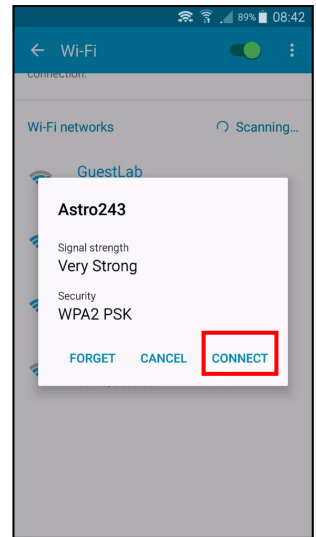
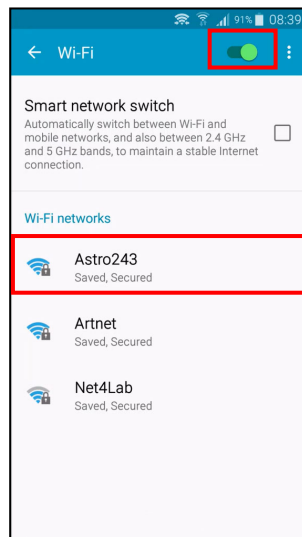
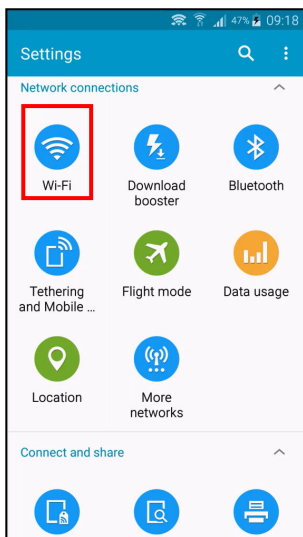
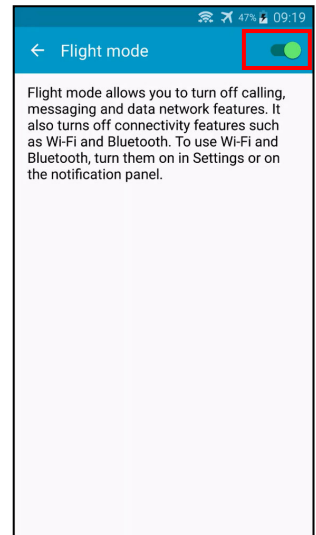
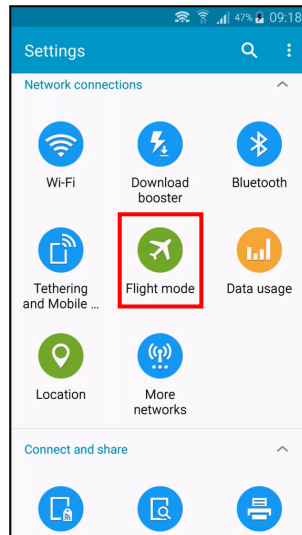
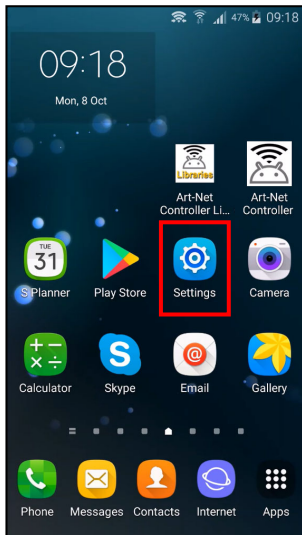


Art-Net Controller
litux



Art-Net Controller Libraries
litux

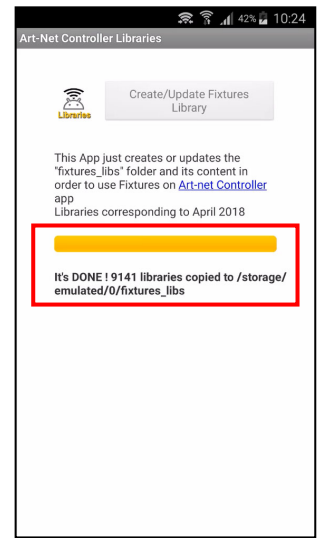
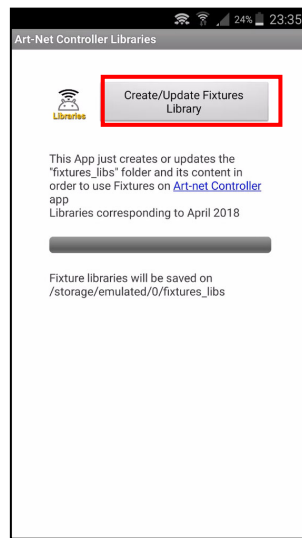
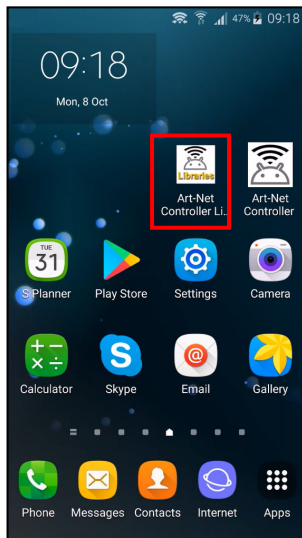
- On the Apps screen, tap **Settings** → **Flight mode**. Drag the Flight mode switch to the right. Select **Settings** → **Wi-Fi**. Drag the Wi-Fi mode switch to the right, select “**Astroxxx**” from the list of detected Wi-Fi networks and tap **CONNECT**.



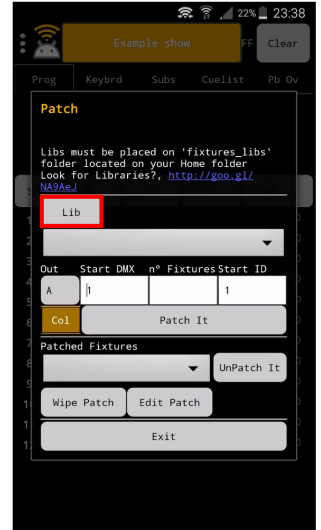
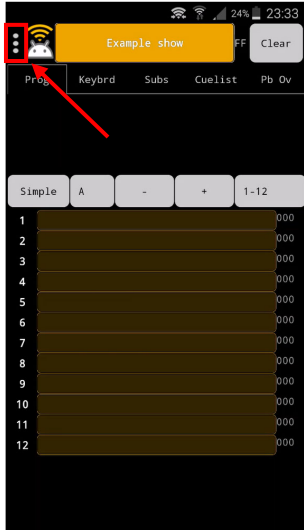
- Enter the password (default **AstroNet**) and press **CONNECT**. When the device is connected to the network, exit from the Wi-Fi settings and tap on the **Art-Net Controller Libraries** icon.

Please refer to chapter 16.29-G and 16.30-H to modify your SSID code and password.

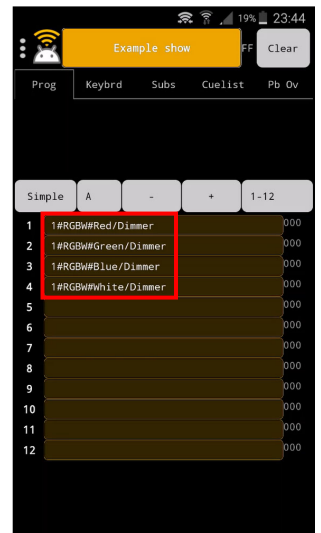
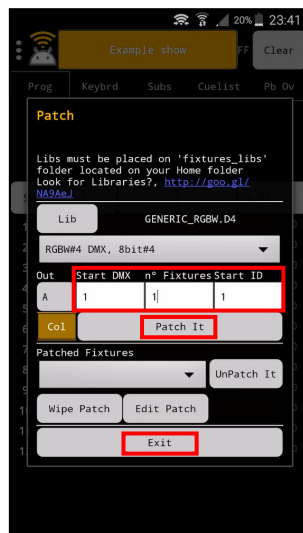
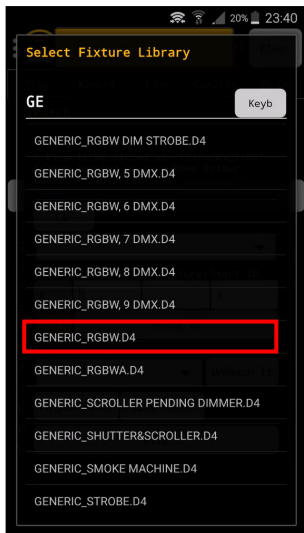
- Tap **Create/Update Fixtures Library** and wait until loading is completed.



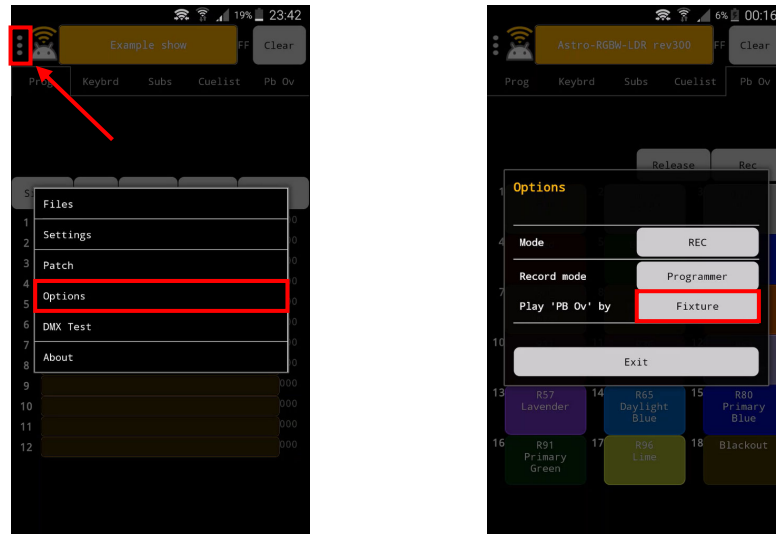
- Open the **Art-Net Controller** app: by default the app displays the **Prog (Programmer)** window. Tap the three dots located on the upper left corner of the screen to open the main menu and select **Patch** → **Lib**.



- Scroll the fixtures library and select **GENERIC_RGBW.D4**. Insert “1” in the following fields: **Start DMX**, **n° Fixtures** and **Start ID**. Tap **Patch it** and then exit the Patch menu.



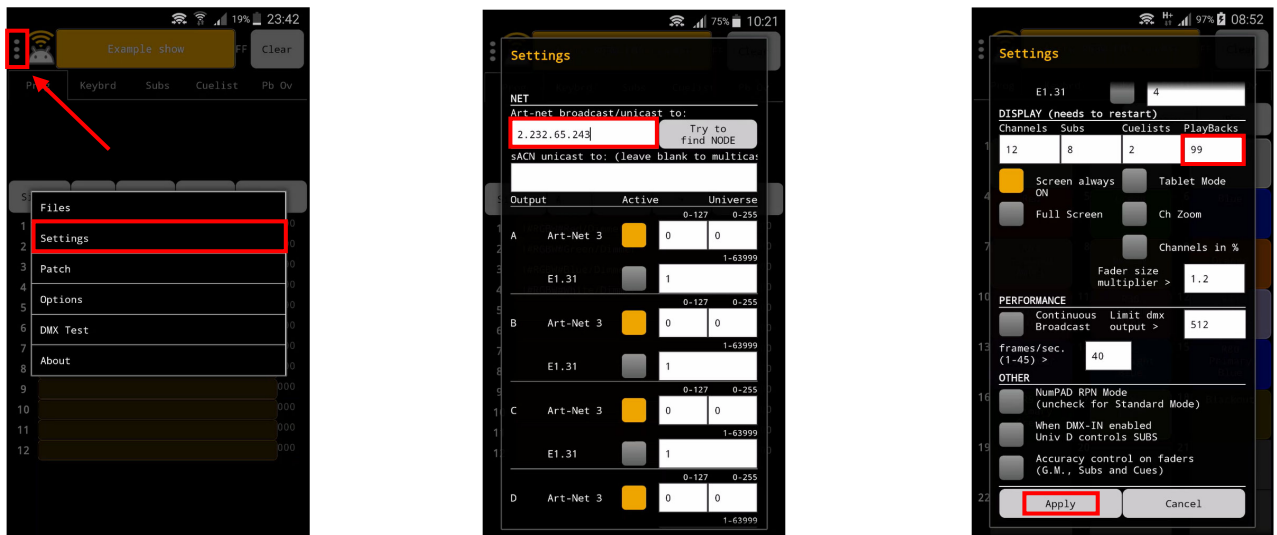
- Open the main menu and select **Options** → **Play 'Pb Ov'** by → **Fixture**.



- Open the main menu and select **Settings**.

Enter your ASTRO's IP address in the “**Art-net broadcast/unicast to:**” fields Please refer to chapter 17.26-E of this user guide to know the IP address to be used.

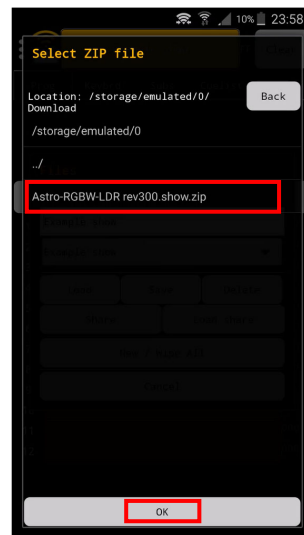
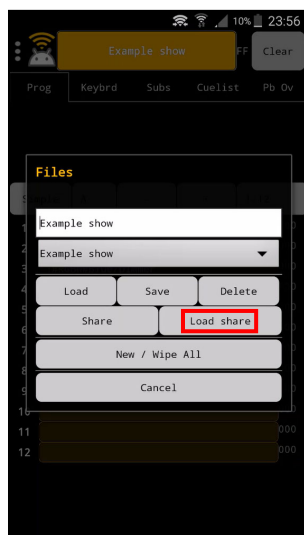
Scroll the Settings window downwards, enter “**99**” in the **PlayBacks** fields and confirm (**Apply**).



- In order to load the LDR colour libraries and settings on your device you will need to get the “Astro RGBW-LDR revxxx.show.zip” file.

The file can be obtained by email or WhatsApp directly from LDR or your dealer.

Open the main menu and select **Files** → **Load share** and Search for your SHOW.ZIP file (for example in the **download** folder if received by e-mail or downloaded by the LDR's website) and confirm (**OK**): the LDR settings and libraries will be loaded and saved.



Your mobile device is now ready to control the Astro Wi-Fi

19.2 OPERATING THE ASTRO WI-FI

Make sure the clamp-on digital dimmer is connected and its fader above zero. Please see relevant instruction manual supplied with the item.

From the home screen (**Prog**), tap **Pb Ov (Play-Backs)** in the main app toolbar, and you will get the latest available library of saved colours. These currently also include 3 different whites (2700K, 3200K and 5600K) plus a black-out option. Tap on the desired colour to get the Astro to reproduce it, and choose the next one when needed.

A **Rec** function (top-right button, above the colours) is active by default. If accidentally pressed it will cause the settings of your colours (scenes) to change. We strongly recommend you de-activate this function as follows:

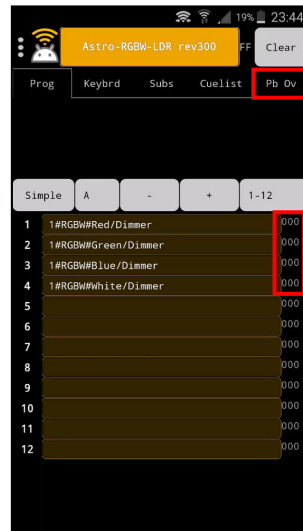
Open the main menu (3 dots top left or bottom right) and choose **OPTIONS**

Tap on **REC** to make it **PLAY** and then exit. The **REC** button is no longer active

Dimming can be performed either through the digital clamp-on dimmer (supplied, suggested option) or by sliding the yellow bar located above the colours' palette. The percentage of power out is indicated beside the yellow bar and changes according to the set level (100% full power; 0% black-out).

WARNING: the levels for RGBW set on the 4 virtual channels in the **Prog** window will always take precedence over the levels set when creating and storing a colour in the **Pb Ov** menu.

In order to avoid undesired changes to the stored colours and problems during their reproduction, tap **Clear** when in the **Prog** window before selecting any colour (scene) from the **Pb Ov** window.



19.3 CREATING, STORING AND DELETING COLOURS

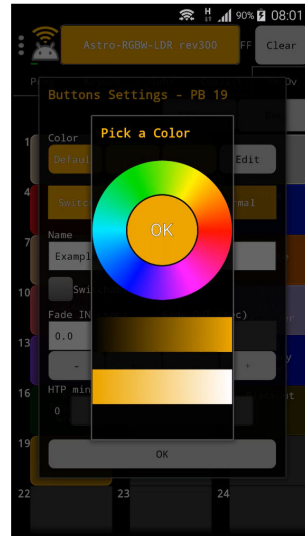
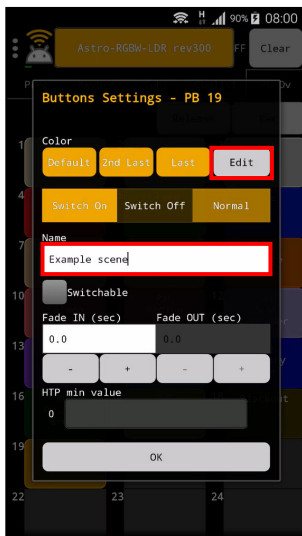
ART-NET Controller allows you to create any desired colour and to store up to 99 different options at one time.



If you want to create and store a new colour (or scene), select **Prog** in the main app toolbar to view the RGBW faders and set each colour (Red, Green, Blue, White) to the required level by sliding each fader to the right (higher level) or to the left (lower level) until you get the desired colour.

Select **Pb Ov**, tap **Rec** and then the desired position in your colour palette (in the above example position n.19)

Tap and hold the **PB button** to access the colour's details view. Type in the name for your **PB Button**, choose its colour (**Color** → **Edit**) and confirm (**OK**). Your new colour has been stored.

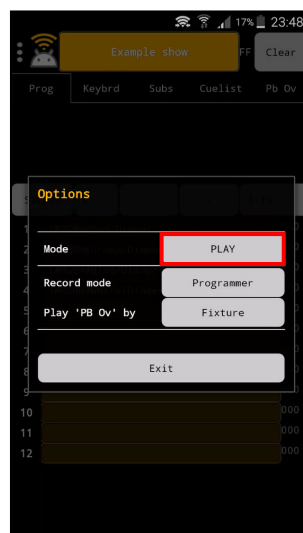


In order to delete any of the stored colours (scenes), tap **Rec** (→ **Delete**) then the desired PB Button.

To avoid undesired or accidental changes to the stored colours (scenes), carefully make sure the App is set to **Play mode**: open the main menu and select **Options** → **Mode=Play**.

Use the CLEAR option to cancel any undesired or accidental modification.

WARNING: the App always starts in **Rec Mode** by default



20. APP SETTINGS AND OPERATION FROM USER'S iOS MOBILE CONTROLLER

If you are using an iOS mobile device (iPhone or iPad) to control the ASTRO, please:

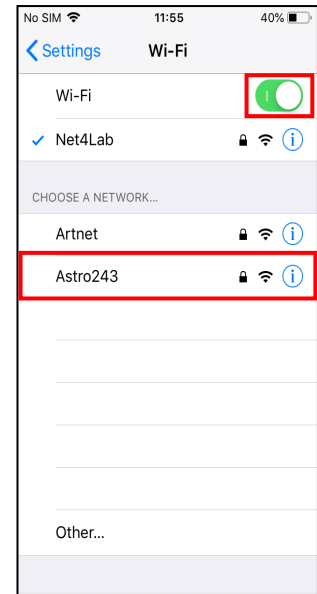
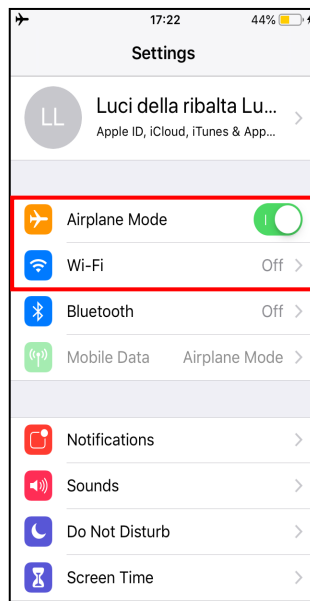
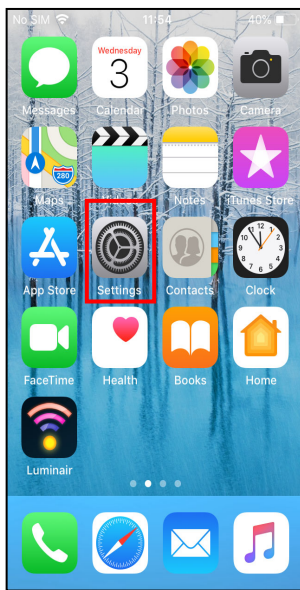
- From the App Store, purchase, download and install Luminair 3. The price of this app will depend on the country you are purchasing it from.



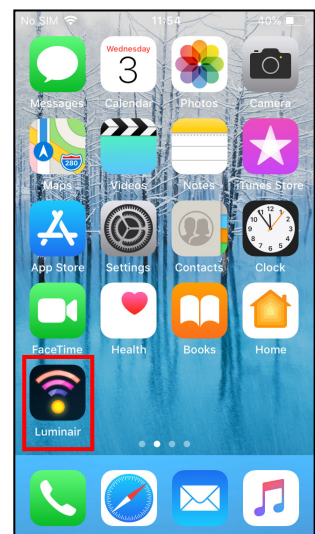
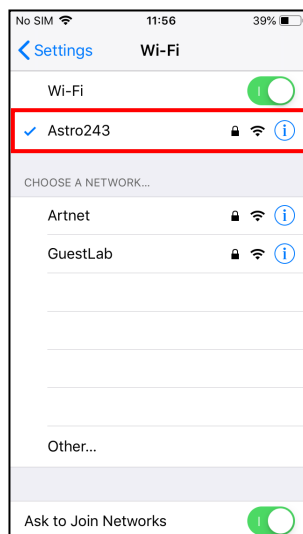
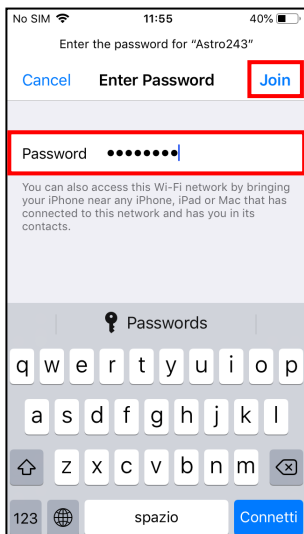
Luminair 3 - DM...



From **Settings** set your device to **Airplane Mode** first, as this will avoid any interference from incoming calls, emails or messages. Drag then the **Wi-Fi** switch to the right and select "**Astroxxx**" from the list of detected Wi-Fi networks, in order to connect your device to the Astro network.



Enter the password (default **AstroNet**) and press **join** to connect to the network. Once the device is connected, exit from the Wi-Fi settings and tap on the **Luminair** icon.

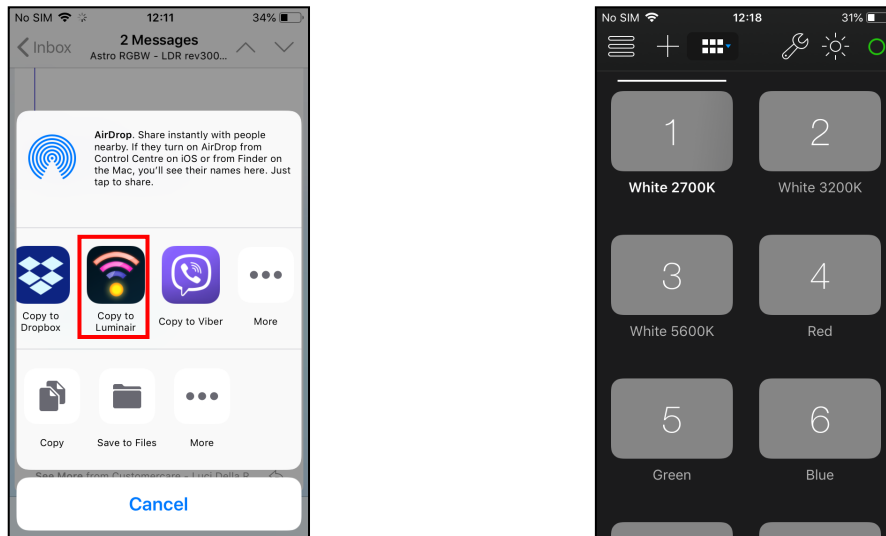


The App will start at the default factory settings, specifically with a **Factory Test Project**.

By default, Luminair broadcasts Art-Net over the network to Net 0, Subnet 0 and Universe 0. In this scenario, data will be delivered to all Art-Net interfaces on the local network and then no special configuration should be necessary.

To load the LDR settings which will allow you to control the Astro, please request the “Astro RGBW - LDR revxxx.luminair” file and open it with Luminair App.

This file can be requested directly from LDR or your dealer and can be received by email or WhatsApp or downloaded from the LDR website.



Once the file has been loaded, your mobile device is ready to take control of the Astro.

20.1 Operating the Astro WI FI

Make sure the clamp-on digital dimmer is connected and its fader above zero. Please see relevant instruction manual supplied with the item.

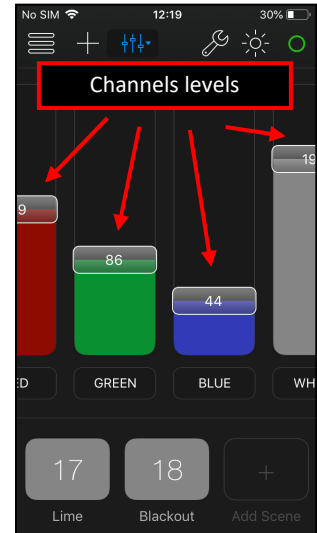
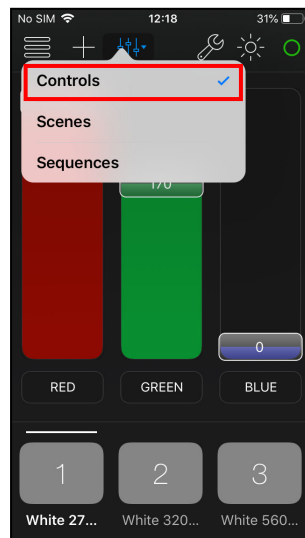
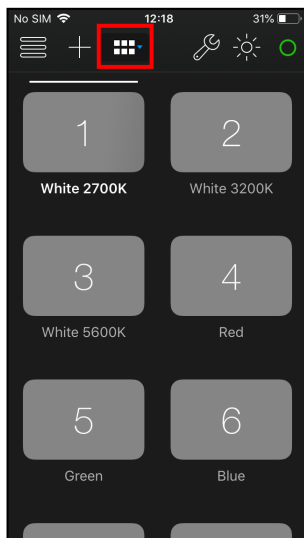
By default, Luminair will take you to the buttons area. Each button carries a reference number and the description of the stored colour. Tap on the desired colour to get the Astro to reproduce it, and choose the next one when needed. Use the clamp-on digital dimmer to dim the light output.

20.2 Creating, storing and deleting colours

In addition to the supplied library of colours, Luminair 3 allows you to create and store any extra customized colour.

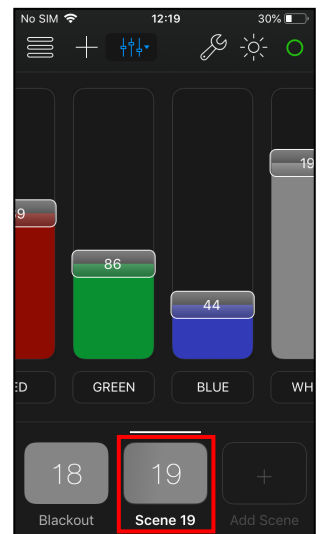
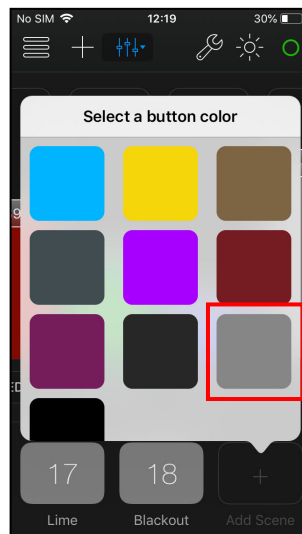
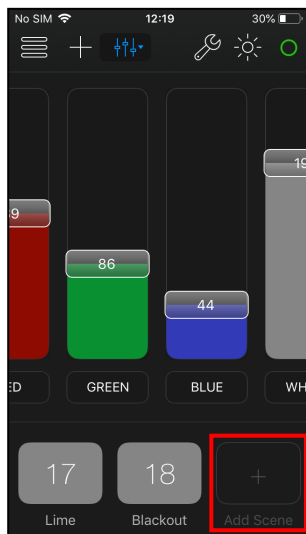
To add a new colour (scene), select **Controls** in the main app toolbar to view the RGBW faders and set the desired channel levels for R, G, B and W.

Scroll



Tap the + button (Add Scene): after selecting the button color, the parameters are automatically saved on the scene.

WARNING: because Luminair only offers 10 colour codings, which do not correspond to the loaded colours, we have chosen GREY for all buttons. You can modify these settings if desired.

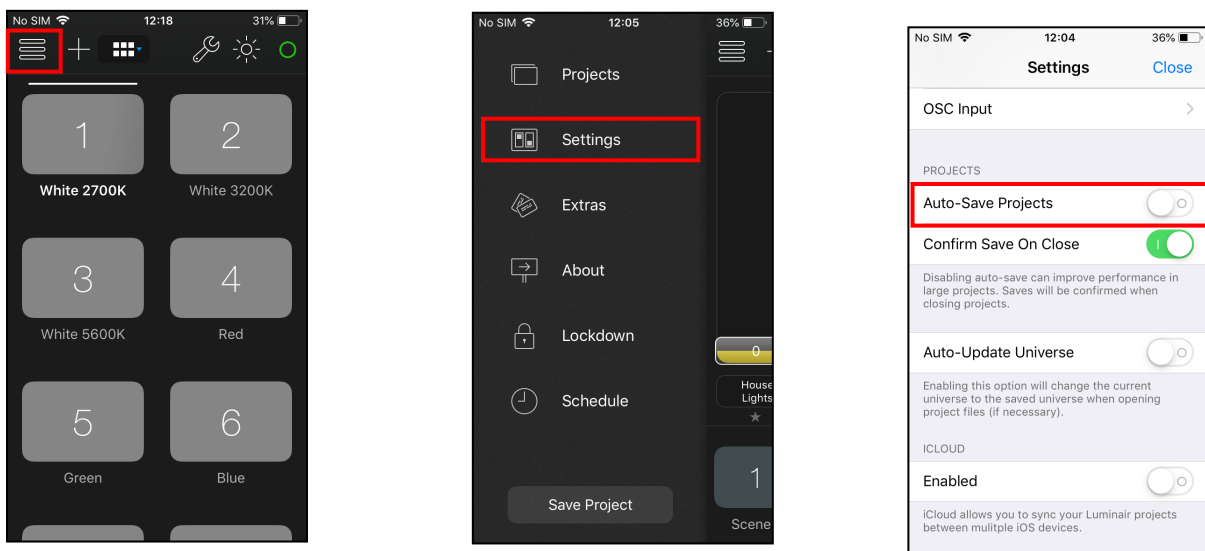


Any change to the colour levels made when a colour (scene) is selected/active will automatically be recorded into that scene. Switching between (colours) scenes will automatically recall the levels last auto-saved into the newly selected scene. Luminair will fade between colours based upon the fade time assigned to that colour scene. Tap on the scene's name label to access the scene details view. To avoid undesired or accidental changes to the stored colours, always make sure you recall the **Scenes** view from the main app toolbar.

To delete a stored colour (scene), tap and hold on the scene's name label and press **Delete**.



To avoid undesired or accidental changes to a project, uncheck **Auto-Save Projects** from the **Settings** menu.



21. UNIVERSAL, 360° ROTATING MOBILE DEVICE HOLDER, supplied

Your Astro Wi-Fi will have been delivered with an universal, 360° rotating, mobile device holder. The holder is factory-mounted in a convenient position on the right-hand side control bar, in order to avoid damages in transit. You can re-position the holder anywhere on one of the two control bars, at your best convenience. In order to do so, slacken the knob at the bottom of the clamp, slide or remove the mobile holder, position where desired and re-tighten the clamp.

22. POSITIONING YOUR MOBILE DEVICE

Because the WI-FI signal emitted by the Astro covers a distance of approximately 12/15m (provided there are no obstacles to its diffusion), you can choose to position your mobile device on the provided mobile holder, or anywhere else within the range of transmission and actually have the colour changing of the Astro remotely controlled by a second operator.

In order to fit your mobile device to the supplied holder, rotate the toothed larger wheel at the back of the holder until the desired opening of the 4 holding arms is reached and turn it again clockwise to close the arms and have your mobile securely held. Rotate your mobile to the desired angle and operate the followspot.

In order to remove your mobile from the holder, turn the toothed wheel to open the holding arms until the mobile comes free

23. RE-CHARGING YOUR MOBILE'S BATTERIES

A USB Port is provided on the rear of the Astro. This will allow you to re-charge your device while the Astro is being operated, without risking to run flat on batteries during a show or having to rely on an external power supply unit.

24. CLAMP-ON MOBILE DIGITAL DIMMER, supplied

The Astro Wi-fi is supplied with a clamp-on mobile digital dimmer, which is packed separately in a plastic bag inside the box/flight case of the Astro. Please refer to the dimmer's separate Instruction manual provided in the packing.

25. CLEANING AND MAINTENANCE

To ensure maximum performance of the product, a regular maintenance service should be carried out. Please make sure the product is cold and disconnected from power supply when doing this.

General maintenance

- * Clean all reflective parts such as lenses opening the product, if necessary.
- * Check the lenses and replace any visibly damaged component.
- * Clean air ducts and fans in order to allow a proper ventilation activity on the product.
- * Check internal and external wiring and replace any cable which should be damaged by heat or mechanical agents.

Cleaning of optical components

LED-house lenses:

- Open the lens compartment door by removing the two M4 cross head screws on the top of the LEDhouse tube and slide the top cover free
- Remove the condensor lenses assembled block by removing the two M5 cross head screws.
- Clean the lenses with a soft cloth and re-position

Lens-tube lenses:

Slide the front zoom panels positioned at the bottom of the lens-tube and clean with a soft cloth.

26. SPARE PARTS

All components are available as spare parts. We strongly recommend you always use original LDR components as spare parts. Please refer to our technical assistance should you need to order and/or replace any part of the unit.

27. WARRANTY

Our warranty covers all structural and manufacture defects for two years from the date you purchased this product. In case of complaints we strongly recommend you use the complaint form at the end of this manual or contact the local dealer who supplied the product to you. In any case please report the serial number of the product.

In case of complaints under warranty proof of purchase will have to be provided.

28. SUMMARY OF CONTROLS AND FUNCTIONS

#	Function	Description	Available Options	Factory Setting
1	Mode	Wi-Fi, MANUAL or DMX control	Wi-Fi (controlled from the iOS or Android App); MANUAL (controlled from the rotary switch or clamp-on manual dimmer); DMX	Wi-Fi
2	Addr	Selects the DMX starting address; other remotely controlled functions are assigned in sequence to the 1st assigned DMX address	Range between 001 and 512	001
3	8/16b	8 or 16 Bits dimming resolution	8 BITS on 1 channel; 16 BITS on 2 channels	8 BITS
4	DMXMem	Sets the behaviour of the unit in case of DMX failure	ON = last DMX value; OFF=80% fade to 80% after 1,5 Sec; OFF=0%	ON
5	Strobe	Activates the Strobe function	ENABLE; DISABLE	DISABLE
6	SetStr	Selects the Strobe speed. This menu is inactive when the Strobe function is disabled or when it is remotely controlled through DMX	OPEN = ON; SPEED = ## (selects value from 01 slowest to 10 fastest); CLOSED = OFF	OPEN
7	Curves	Selects the dimming curve	SQUARE; LINEAR	SQUARE
8	CutOff	Replicates a tungsten halogen lamp dimming behaviour at cut off	FAST = NOT ACTIVE; SLOW = ACTIVE	SLOW
9	Smooth	Dimmer response	NORMAL = 150ms; SLOW = 300ms FAST = Immediate response	NORMAL
10	Fan	Fan setting	AUTO = regulated by Tled; SILENT = slow speed, low noise; SILENT = constant speed	AUTO
11	BackL	LCD screen retro-illumination	ON; AutoOFF = LCD light off after 1'30"	AutoOff
12	Red	Red intensity for manual mode	Range between 00% and 100%	---
13	Green	Green intensity for manual mode	Range between 00% and 100%	---
14	Blue	Blue intensity for manual mode	Range between 00% and 100%	---
15	White	White intensity for manual mode	Range between 00% and 100%	---
16	Col.T	White colour temperature for manual mode	####°K = 10 available colour temperature preset	---

#	Function	Description	Available Options	Factory Setting
17	Tled	Visualizes the LED temperature	Selects the LED Temp in °C or F°	°C
18	SwVer	Visualizes the software version		---
19	Net	Sets the Net field of Art-Net 3 Port-Address	Range between 000 and 128	000
20	SubNet	Sets the SubNet field of Art-Net 3 Port-Address	Range between 00 and 15	00
21	Univ	Sets the Universe field of Art-Net 3 Port-Address	Range between 00 and 15	00
22	Manu	Selects the manual dimmer type	ENCODER = Rotary switch; POTENT = External slider	ENCODER

SPECIAL FUNCTIONS: to activate these functions press the rotary switch at power on				
#	Function	Description	Available Options	Factory Setting
A	ProBasic	Sets the functions available from the control menu	PRO = Enables access to all functions; BASIC = Limits the access to the primary functions	PRO
B	RESET	Factory RESET	Returns to factory settings	---
C	ID Rem	Sets the ID number to activate the Remoto control device to upload and download firmware	Range between 000 (no remote control) and 250	000
D	Set Min	Sets the minimum output level of each colour	Red: Range between 000 and 9999	---
			Green: Range between 000 and 9999	---
			Blue: Range between 000 and 9999	---
			White: Range between 000 and 9999	---
E	IP Addr	Visualizes the IP Address of the Access Point		---
F	SubNet Mask	Visualizes the SubNet Mask of the Access Point	255.255.255.0	---
G	SSID	Sets the name of the Network generated by the Astro	8 alphanumeric digits	---
H	Password	Sets the password of the Network generated by the Astro	8 alphanumeric digits	---
I	Exit	Exits from hidden menus		---

29. DMX CHARTS

29.1 DMX chart 1 (16 bit dimmer and strobe disabled)

This DMX chart refers to the followspot set at default parameters.

DMX Channel	Function	Type of Control	Effect	Decimal			Percentage		
1	Master Dimmer	Proportional	Adjusts luminous output intensity from 0 to 100%	0	-	255	0%	-	100%
2	Spare Channel	Step	No effect	0	-	255	0%	-	100%
3	Red	Proportional	Proportional setting of the red colour from 0 to 100%	0	-	255	0%	-	100%
4	Green	Proportional	Proportional setting of the green colour from 0 to 100%	0	-	255	0%	-	100%
5	Blue	Proportional	Proportional setting of the blue colour from 0 to 100%	0	-	255	0%	-	100%
6	White	Proportional	Proportional setting of the white colour from 0 to 100%	0	-	255	0%	-	100%
7	Tunable White	Step	No effect	0	-	5	0%	-	1%
		Step	White 2700°K	6	-	30	2%	-	11%
		Step	White 3000°K	31	-	55	12%	-	21%
		Step	White 3200°K	56	-	80	22%	-	31%
		Step	White 3800°K	81	-	105	32%	-	41%
		Step	White 4000°K	106	-	130	42%	-	51%
		Step	White 4200°K	131	-	155	52%	-	61%
		Step	White 4600°K	156	-	180	62%	-	70%
		Step	White 5200°K	181	-	205	71%	-	80%
		Step	White 5600°K	206	-	230	81%	-	90%
		Step	White 5800°K	231	-	255	91%	-	100%
Luminaire: Astro Wi-Fi			Chart name: DMX512 Functions chart 1 (Default)			Revision: 2.0		Date: February 2021	

29.2 DMX chart 2 (16 bit dimmer enable, strobe disabled)

This DMX chart refers to the followspot set at 16 bits resolution (See chapter 17.3 of this user guide).

DMX Channel	Function	Type of Control	Effect	Decimal			Percentage		
1	Master Dimmer	Proportional	Adjusts luminous output intensity from 0 to 100%	0	-	255	0%	-	100%
2	Dimmer Fine	Proportional	Fine dimmer control 16 bit	0	-	255	0%	-	100%
3	Red	Proportional	Proportional setting of the red colour from 0 to 100%	0	-	255	0%	-	100%
4	Green	Proportional	Proportional setting of the green colour from 0 to 100%	0	-	255	0%	-	100%
5	Blue	Proportional	Proportional setting of the blue colour from 0 to 100%	0	-	255	0%	-	100%
6	White	Proportional	Proportional setting of the white colour	0	-	255	0%	-	100%

			from 0 to 100%						
7	Tunable White	Step	No effect	0	-	5	0%	-	1%
		Step	White 2700°K	6	-	30	2%	-	11%
		Step	White 3000°K	31	-	55	12%	-	21%
		Step	White 3200°K	56	-	80	22%	-	31%
		Step	White 3800°K	81	-	105	32%	-	41%
		Step	White 4000°K	106	-	130	42%	-	51%
		Step	White 4200°K	131	-	155	52%	-	61%
		Step	White 4600°K	156	-	180	62%	-	70%
		Step	White 5200°K	181	-	205	71%	-	80%
		Step	White 5600°K	206	-	230	81%	-	90%
		Step	White 5800°K	231	-	255	91%	-	100%
Luminaire: Astro Wi-Fi			Chart name: DMX512 Functions chart 2 (16bits)		Revision: 2.0		Date: February 2021		

29.3 DMX chart 3 (Strobe function enable, 8 bit dimmer)

This DMX chart refers to the followspot set at strobe function on (See chapter 17.5 of this user guide).

DMX Channel	Function	Type of Control	Effect	Decimal		Percentage	
1	Master Dimmer	Proportional	Adjusts luminous output intensity from 0 to 100%	0	-	255	0% - 100%
2	Spare Channel	Step	No effect	0	-	255	0% - 100%
3	Red	Proportional	Proportional setting of the red colour from 0 to 100%	0	-	255	0% - 100%
4	Green	Proportional	Proportional setting of the green colour from 0 to 100%	0	-	255	0% - 100%
5	Blue	Proportional	Proportional setting of the blue colour from 0 to 100%	0	-	255	0% - 100%
6	White	Proportional	Proportional setting of the white colour from 0 to 100%	0	-	255	0% - 100%
7	Tunable White	Step	No effect	0	-	5	0% - 1%
		Step	White 2700°K	6	-	30	2% - 11%
		Step	White 3000°K	31	-	55	12% - 21%
		Step	White 3200°K	56	-	80	22% - 31%
		Step	White 3800°K	81	-	105	32% - 41%
		Step	White 4000°K	106	-	130	42% - 51%
		Step	White 4200°K	131	-	155	52% - 61%
		Step	White 4600°K	156	-	180	62% - 70%
		Step	White 5200°K	181	-	205	71% - 80%
		Step	White 5600°K	206	-	230	81% - 90%
		Step	White 5800°K	231	-	255	91% - 100%
8	Strobe	Step	Open	0	-	20	0% - 8%
		Step	Strobe speed 1 (minimum frequency)	21	-	40	9% - 15%
		Step	Strobe speed 2	41	-	60	16% - 24%
		Step	Strobe speed 3	61	-	80	25% - 31%

		Step	Strobe speed 4	81	-	100	32%	-	39%
		Step	Strobe speed 5	101	-	120	40%	-	47%
		Step	Strobe speed 6	121	-	140	48%	-	55%
		Step	Strobe speed 7	141	-	160	56%	-	63%
		Step	Strobe speed 8	161	-	180	64%	-	71%
		Step	Strobe speed 9	181	-	200	72%	-	78%
		Step	Strobe speed 10 (maximum frequency)	201	-	220	79%	-	86%
		Step	Closed	221	-	255	87%	-	100%
Luminaire: Astro Wi-Fi			Chart name: DMX512 Functions chart 3 (Strobe)		Revision: 2.0		Date: February 2021		

29.4 DMX chart 4 (16 bits dimmer and Strobe enabled)

This DMX chart refers to the followspot set at 16 bits resolution and strobe function on (See chapter 17.3 and 17.5 of this user guide).

DMX Channel	Function	Type of Control	Effect	Decimal		Percentage	
1	Master Dimmer	Proportional	Adjusts luminous output intensity from 0 to 100%	0	-	255	0% - 100%
2	Dimmer Fine	Proportional	Fine dimmer control 16 bit	0	-	255	0% - 100%
3	Red	Proportional	Proportional setting of the red colour from 0 to 100%	0	-	255	0% - 100%
4	Green	Proportional	Proportional setting of the green colour from 0 to 100%	0	-	255	0% - 100%
5	Blue	Proportional	Proportional setting of the blue colour from 0 to 100%	0	-	255	0% - 100%
6	White	Proportional	Proportional setting of the white colour from 0 to 100%	0	-	255	0% - 100%
7	Tunable White	Step	No effect	0	-	5	0% - 1%
		Step	White 2700°K	6	-	30	2% - 11%
		Step	White 3000°K	31	-	55	12% - 21%
		Step	White 3200°K	56	-	80	22% - 31%
		Step	White 3800°K	81	-	105	32% - 41%
		Step	White 4000°K	106	-	130	42% - 51%
		Step	White 4200°K	131	-	155	52% - 61%
		Step	White 4600°K	156	-	180	62% - 70%
		Step	White 5200°K	181	-	205	71% - 80%
		Step	White 5600°K	206	-	230	81% - 90%
		Step	White 5800°K	231	-	255	91% - 100%
8	Strobe	Step	Open	0	-	20	0% - 8%
		Step	Strobe speed 1 (minimum frequency)	21	-	40	9% - 15%
		Step	Strobe speed 2	41	-	60	16% - 24%
		Step	Strobe speed 3	61	-	80	25% - 31%
		Step	Strobe speed 4	81	-	100	32% - 39%
		Step	Strobe speed 5	101	-	120	40% - 47%
		Step	Strobe speed 6	121	-	140	48% - 55%
		Step	Strobe speed 7	141	-	160	56% - 63%

		Step	Strobe speed 8	161	-	180	64%	-	71%
		Step	Strobe speed 9	181	-	200	72%	-	78%
		Step	Strobe speed 10 (maximum frequency)	201	-	220	79%	-	86%
		Step	Closed	221	-	255	87%	-	100%
Luminaire: Astro Wi-Fi			Chart name: DMX512 Functions chart 4 (16 bits + Strobe)	Revision: 2.0		Date: February 2021			

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**CERTIFICATO DI CONFORMITA' - CERTIFICATE OF CONFORMITY
KONFORMITAETSERKLAREUNG - CERTIFICAT DE CONFORMITE'
CERTIFICADO DE CONFORMIDAD**

I Noi sottoscritti dichiariamo, sotto la nostra completa responsabilità, che i prodotti:
EN We hereby declare, under our own responsibility, that the products listed here below:
D Wir beglaubigen, daß die nachfolgend genannten Produkte:
F Nous certifions, sous notre responsabilité, que le produits mentionnés ci-dessous:
ES Los que subscriben declaran, bajo su responsabilidad, que los productos aquí listados:

ASTRO 250 plus LED LUMINAIRES
Standard models and all their variants

I sono conformi alle seguenti normative:
EN conform to the following standards:
D entsprechen den nachfolgen angeführten Normen:
F sont conformes aux normes ci-après:
ES cumplen de hecho con las siguientes normas:

EN IEC 55015:2019	LIMITS AND METHODS OF MEASUREMENTS OF RADIO DISTURBANCE CHARACTERISTICS OF ELECTRICAL LIGHTING AND SIMILAR EQUIPMENT
EN 61547: 2020	EQUIPMENT FOR GENERAL LIGHTING PURPOSES. EMC IMMUNITY REQUIREMENTS
EN 61000-3-2: 2019	ELECTROMAGNETIC COMPATIBILITY (EMC). PARTS 3-2: LIMITS -LIMITS FOR HARMONIC CURRENT EMISSIONS (EQUIPMENT INPUT CURRENT UP TO AND INCLUDING 16 A PER PHASE) CLASS C
EN 61000-3-3: 2013+A1: 2019	ELECTROMAGNETIC COMPATIBILITY (EMC) - PART 3-3: LIMITS - LIMITATION OF VOLTAGE CHANGES, VOLTAGE FLUCTUATIONS AND FLICKER IN PUBLIC LOW-VOLTAGE SUPPLY SYSTEMS, FOR EQUIPMENT WITH RATED CURRENT ≤ 16 A PER PHASE AND NOT SUBJECT TO CONDITIONAL CONNECTION
EN IEC 60598-1: 2021+A11: 2022	SPECIFIES GENERAL REQUIREMENTS FOR LUMINAIRES. INCORPORATING ELECTRIC LIGHT SOURCES FOR OPERATIONS FROM SUPPLY VOLTAGES UP TO 1 000 V.
EN IEC 60598-2-17: 2018	SPECIFIES REQUIREMENTS FOR STAGES, TELEVISION, FILM AND PHOTOGRAPHIC STUDIO LUMINAIRES (INCLUDING SPOT AND FLOODLIGHTING PROJECTORS) FOR USE OUTDOORS AND INDOORS, WITH ELECTRIC LIGHT SOURCES ON SUPPLY VOLTAGES NOT EXCEEDING 1 000 V.
EN 62493: 2015	APPLIES TO THE ASSESSMENT OF LIGHTING EQUIPMENT RELATED TO HUMAN EXPOSURE TO ELECTROMAGNETIC FIELD
EN 63000: 2018	TECHNICAL DOCUMENTATION FOR ASSESSMENT OF ELECTRICAL AND ELECTRONIC PRODUCTS WITH RESPECT TO THE RESTRICTION OF HAZARDOUS SUBSTANCES

FOLLOWING THE EU DIRECTIVE OF THE EUROPEAN PARLAMENT AND THE COUNCIL OF THE EUROPEAN UNION:

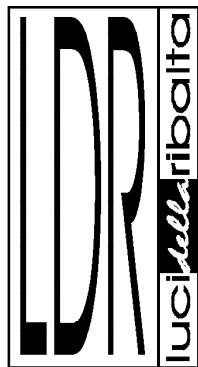
- 2014/30/EU ELECTROMAGNETIC COMPATIBILITY (EMC)
- 2014/35/EU EU LOW VOLTAGE (LVD)
- 2011/65/UE
- 2009/125/CE
- 2019/2020 + 2021/341

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Lisa Papi



modulo di reclamo - complaint form
Reklamationsformular - formulaire de réclamation -
hoja de reclamaciones

email: info@ldr.it

Azienda ed Indirizzo - Company's name and address - Firmenname und Adresse - Nom et adresse -
Nombre y dirección

Nome del rivenditore da cui il prodotto è stato acquistato - Name of the dealer where you have purchased
the product - Namen der Firma, die Ihnen das Produkt verkauft hat - Nom de la société qui vous a vendu ce
produit - Nombre de la compañía donde han comprado el producto:

Prodotto difettoso

☐

01207190

Astro 250 Wi-fi RGBW

Faulty product

☐

DMX512+RDM LED

Defekte s Produkt

☐

01207390

Astro 250 Wi-fi RGBW HP

Produit défectueux

☐

DMX512+RDM LED

Producto defectuoso

☐☐

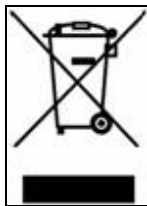
Descrizione del problema /Problem found/Beschreibung des Defekts/Description du défaut/Descripción del problema

Data d'acquisto - Date of purchase - Kaufdatum - Date de l'achat - Fecha de compra _____

Si prega di allegare prova d'acquisto - Please attach copy of purchase invoice - Bitte Kaufnachweis beilegen -
Veuillez joindre une quittance d'achat - Les rogamos incluyan l copia de la factura de compra.

Nome e qualifica - Name and position - Name und Funktion - Nom et fonction - Nombre y cargo

Data - Date - Datum - Date - Fecha _____



IT
Direttiva 2002/96/CE (Rifiuti di Apparecchiature Elettriche ed Elettroniche - RAEE):
informazioni agli utenti: ai sensi dell'art. 13 del Decreto Legislativo 25 luglio 2005, n. 151 "Attuazione delle Direttive 2002/95/CE, 2002/96/CE e 2003/108/CE, relative alla riduzione dell'uso di sostanze pericolose nelle apparecchiature elettriche ed elettroniche, nonché allo smaltimento dei rifiuti" questo prodotto è conforme.

Il simbolo del cassonetto barrato riportato sull'apparecchiatura o sulla sua confezione indica che il prodotto alla fine della propria vita utile deve essere raccolto separatamente dagli altri rifiuti. L'utente dovrà, pertanto, conferire l'Apparecchiatura giunta a fine vita agli idonei centri di raccolta differenziata dei Rifiuti Elettronici ed Elettrotecnici, oppure riconsegnarla al rivenditore al momento dell'acquisto di una nuova apparecchiatura di tipo equivalente, in ragione di uno a uno. L'adeguata raccolta differenziata per l'avvio successivo dell'apparecchiatura dismessa al riciclaggio, al trattamento ed allo smaltimento ambientalmente compatibile contribuisce ad evitare possibili effetti negativi sull'ambiente e sulla salute e favorisce il reimpiego e/o riciclo dei materiali di cui è composta l'apparecchiatura. Lo smaltimento abusivo del prodotto da parte dell'utente comporta l'applicazione delle sanzioni amministrative previste dalla normativa vigente.

ES
Directiva 2002/96/EC (Resíduos de aparatos eléctricos y electrónicos - RAEE):
Información para el usuario.

Este producto es conforme con la Directiva EU 2002/96/CE. El símbolo de la papelera barrada situado sobre el aparato indica que este producto, al final de su vida útil, debe ser tratado separadamente de los residuos domésticos. El usuario es responsable de la entrega del aparato al final de su vida útil a los centros de recogida autorizados. El adecuado proceso de recogida diferenciada permite dirigir el aparato desechado al reciclaje, a su tratamiento y a su desmantelamiento de una forma compatible con el medio ambiente, contribuyendo a evitar los posibles efectos negativos sobre el ambiente y la salud, favoreciendo el reciclaje de los materiales de los que está compuesto el producto. Para información más detallada inherente a los sistemas de recogida disponibles, dirigirse al servicio local de recogida o al establecimiento donde se adquirió el producto.

FR
Directive 2002/96/CE (Déchets d'équipements électriques et électroniques - DEEE):
informations aux utilisateurs.

Ce produit est conforme à la Directive ED 2002/96/CE. Le symbole de la corbeille barrée reporté sur l'appareil indique que ce dernier doit être éliminé à part lorsqu'il n'est plus utilisable et non pas avec les ordures ménagères. L'utilisateur a la responsabilité de porter l'appareil hors d'usage à un centre de ramassage spécialisé. Le tri approprié des déchets permet d'acheminer l'appareil vers le recyclage, le traitement et l'élimination de façon écologiquement compatible. Il contribue à éviter les effets négatifs possibles sur l'environnement et sur la santé, tout en favorisant le recyclage des matériaux dont est constitué le produit. Pour avoir des informations plus détaillées sur les systèmes de ramassage disponibles, s'adresser au service local d'élimination des déchets ou au revendeur.

DE
Richtlinie 2002/96/EU (Elektro- und Elektronik-Altgeräte - WEEE):
Benutzerinformationen.

Dieses Produkt entspricht der EU Richtlinie 2002/96/EU. Das Symbol des auf dem Gerät dargestellten, durchgestrichenen Korbes gibt an, dass das Produkt am Ende seiner Nutzungsdauer gesondert vom Hausmüll zu behandeln ist. Am Ende der Nutzungsdauer ist der Benutzer für die Überantwortung des Geräts an geeignete Sammelstellen verantwortlich. Die angemessene, getrennte Müllsammlung zwecks umweltkompatibler Behandlung und Entsorgung für den anschließenden Recycling beginn des nicht mehr verwendeten Geräts trägt zur Vermeidung möglicher schädlicher Wirkungen auf Umwelt und Gesundheit bei und begünstigt das Recycling der Materialien, aus denen das Produkt zusammengesetzt ist. Für nähere Informationen bezüglich der zur Verfügung stehenden Sammelsysteme, wenden Sie sich bitte an den örtlichen Müllentsorgungsdienst oder an das Geschäft, in dem der Kauf getätigt worden ist.

UK
Directive 2002/96/EC (Waste Electrical and Electronic Equipment - WEEE):
information for users.

This product complies with EU Directive 2002/96/EC. The crossed-out wastebasket symbol on the appliance means that at the end of its useful lifespan, the product must be disposed of separately from ordinary household wastes. The user is responsible for delivering the appliance to an appropriate collection facility at the end of its useful lifespan. Appropriate separate collection to permit recycling, treatment and environmentally compatible disposal helps prevent negative impact on the environment and human health and promotes recycling of the materials making up the product. For more information on available collection facilities, contact your local waste collection service or the shop where you bought this appliance.

NL
Richtlijn 2002/96/EG (Afgedankte Elektrische en Elektronische Apparaten - AEEA):
informatie voor de gebruikers.

Dit product voldoet aan de richtlijn EU 2002/96/EG. Het symbool van de vuilnisbak met een streep erdoor, dat op het apparaat staat, geeft aan dat het product, wanneer het wordt afgedankt, niet met het huisvuil kan worden meegegeven. Het is de verantwoordelijkheid van de gebruiker het product, op het moment dat dit wordt afgedankt, in te leveren bij een centrum voor gescheiden afvalverwerking. Een correcte gescheiden afvalverwerking, die gericht is op de recycling van het afgedankte product en die een milieuvriendelijke behandeling en vernietiging mogelijk maakt, draagt ertoe bij mogelijk negatieve effecten op het milieu en op de gezondheid te voorkomen en bevordert het hergebruik van de materialen waaruit het product bestaat. Voor meer gedetailleerde informatie met betrekking tot de voorhanden zijnde afvalverwerkingsystemen dient u zich te wenden tot de plaatselijke vuilnisdienst of tot de winkelier waar u het product heeft gekocht.

PT
Directiva 2002/96/CE (Resíduos de equipamentos eléctricos e electrónicos REEE):
informações para os utilizadores.

Este produto é conforme à Directiva EU 2002/96/CE. O símbolo do cesto barrado marcado no aparelho indica que o produto, no fim da própria vida útil, deve ser tratado separadamente do lixo doméstico. O utilizador é responsável pela entrega do aparelho, no fim da vida do mesmo, às apropriadas estruturas de recolha. A adequada recolha diferenciada para o encaminhamento sucessivo do aparelho à reciclagem, ao tratamento e ao escoamento ambientalmente compatível, contribui para evitar possíveis efeitos negativos sobre o ambiente e a saúde e favorece a reciclagem dos materiais que compõem o produto. Para informações mais detalhadas inerentes aos sistemas de recolha disponíveis, dirija-se ao serviço

local de escoamento de resíduos, ou a loja na qual efectuou a compra.

NO
WEEE-symbolet (Waste Electrical and Electronic Equipment).

Bruken av WEEE-symbolet indikerer at dette produktet ikke kan behandles som husholdningsavfall. Du vil bidra til å beskytte miljøet ved å sørge for at dette produktet blir avhendet på en forsvarlig måte. Ta kontakt med kommunale myndigheter, renovasjonsselskapet der du bor eller forretningen hvor du kjøpte produktet for å få mer informasjon om resirkulering av dette produktet.

S
Symbol för avfall från elektrisk och elektronisk utrustning (WEEE).

Märkning med WEEE-symbolen visar att produkten inte får behandlas som hushållsavfall. Genom att slänga den här produkten på rätt sätt bidrar du till att skydda miljön. Mer information om återvinning av produkten kan du få av de lokala myndigheterna, din renhållningsservice eller i affären där du köpte produkten.

FI
WEEE-merkintä (sähkö- ja elektroniikkalaiteromu).

WEEE-merkintä osoittaa, että tätä tuotetta ei voi käsitellä kotitalousjätteen tavoin. Kun huolehdit tämän tuotteen asianmukaisesta hävittämisestä, autat suojelemaan ympäristöä. Lisätietoa tämän tuotteen kierrättämisestä saat paikallisviranomaisilta, jätehuoltoyhtiöltäsi tai myymälästä josta ostit tämän tuotteen.

DK
Symbol for affald af elektrisk og elektronisk udstyr (WEEE)

Brugen af WEEE-symbolet betyder, at dette produkt ikke må behandles som husholdningsaffald. Ved at sørge for korrekt bortskaffelse af produktet medvirker du til at beskytte miljøet. Du kan få flere oplysninger om genbrug af dette produkt hos de lokale myndigheder, dit renovationsselskab eller i forretningen, hvor du har købt produktet.

HU
Hulladék elektromos vagy elektronikus készüléket jelölő szimbólum.

Ez a szimbólum azt jelöli, hogy a terméket nem szabad háztartási hulladékként kezelni. A hulladékká vált termék megfelelő elhelyezésével hozzájárul a környezet védelméhez. A termék újrafelhasználásával kapcsolatban a helyi szerveknél háztartási hulladékokat elszállító vállalatnál vagy a terméket értékesítő üzletben tájékozódhat.

CZ
Symbol pro odpadní elektrický a elektronický materiál (WEEE).

Použití symbolu WEEE označuje, že tento produkt nelze likvidovat jako domovní odpad. Správnou likvidaci tohoto produktu přispějete k ochraně životního prostředí. Podrobnější informace o likvidaci tohoto produktu vám poskytne místní úřady, společnost pro likvidaci komunálního odpadu nebo obchod, kde jste zboží zakoupili.

