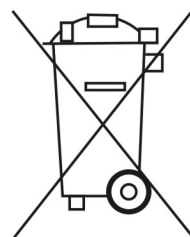


istruzioni per l'uso
operating instructions
Bedienungsanleitung
instrucciones de
manejo
mode d'emploi
gebruiksaanwijzing

01107190

Astro 100CM RGBW,
120W, 100/260V DMX512



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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 should this not be the case please contact us directly using the attached feedback form to help us improve the quality of our service.

This spotlight 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 received the product.

Our products are designed for the use of professional technicians, and the instructions provided here ensure a 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 this 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 luminaire not to perform as expected.

Luci della Ribalta 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 equipment.

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 EU Directives or the local safety and health standards of the country where the unit is installed, must be complied with.

1. IMPORTANT SAFETY NORMS

- this product is a professional lighting fixture, 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. 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 one time.
- Make sure the fans are working correctly. Should you detect even the slightest malfunction, switch the luminaire off and carry out the necessary servicing. Replace the fan if necessary.
- This product is rated IP20 and is therefore designed for interior use only. For details on maximum ambient temperature, minimum distance from flammable objects and minimum distance from lit surface, please refer to the product label or the screen-printed information to be found on the rear plate and front side of each luminaire.

- There are no user serviceable parts in this product. Replacement of any internal component of this product must be carried out exclusively by professional personnel and only with original Luci della Ribalta srl components.
- Replacement of any part of the wiring system must comply with the original wiring diagram and with components identical 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: 0,5m
- Minimum distance from lit surface, please refer to product label
- Make sure the mains power supply the fixture will be connected to is protected by a suitable thermal magnetic circuit breaker

2. BOX CONTENTS

A. Standard followspot

- Astro followspot in the chosen model
- Separate mains power cable with PowerCon

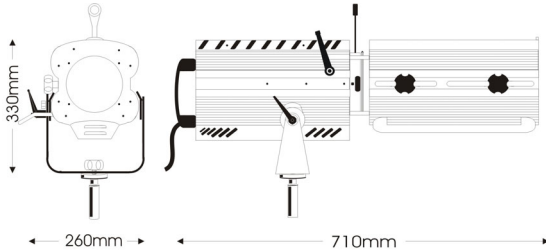
B. Kit followspot

- Astro f.spot in the chosen model in flight case
- Fitted colour-changer unit

- Ø29mm spigot for followspot
- Iris diaphragm

- Separate mains power cable with PowerCon
- Ø29mm spigot for followspot
- Iris diaphragm
- Black follow-spot tripod

3. WEIGHT AND DIMENSIONS



ASTRO 100 RGBW
net weight: 10,1 kg
gross weight: 11,6 kg
packing dimensions: 83x41x41h cm

4. MOUNTING THE SPIGOT

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 and here above
- Make sure the tripod you are going to use features a top aperture over 28mm 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.

5. MOUNTING THE COLOUR CHANGER (accessory, part nr. 20105103)

This section only applies in case you bought the followspot and the colour changer separately. In case you bought a kit model the colour changer will be already fitted.

- Mount the colour filters on the colour changer unit. See relevant instructions supplied with the colour changer.
- At the front of the followspot, slacken the 3 cross-head black M4 screws (two at the top angles, one at the bottom, left-hand side angle) so that they remain inserted approximately half-way through.
- Position the colour changer unit on the front plate of the follow spot, making sure that the colour levers are positioned on the left-hand side of the follow spot when viewed from the front and hang it to the previously positioned screws.
- Release the colour filters of the colour changer by pressing the black, flat lever in order to have access to the screws

- Insert a Phillips screws driver at least 12cm long in each one of the holes provided at the front of the colour changer and tighten each screw
- Ensure the colour changer unit is secure, and all three screws are tight.

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 to a minimum of 5mm. A black-out iris diaphragm is available to special order. The iris diaphragm usually comes factory-mounted, but should this not be the case or should you replace an existing iris, then:

- Using a Phillips screw-driver remove the two cross-head screws from the sides of the iris plate.
- Slide the diaphragm in the gate area.
- Fix the iris in position by tightening the previously removed screws

Important notice: do not leave the iris 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. SHUTTER BLADES (accessory, part nr. R80208019 x 4)

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, 4 are required.

8. 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 spotlight's location must provide suitable ventilation for the LED module.

9. 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.

10. VOLTAGE

Before operating this unit please refer to the product label mounted at the back of the luminaire to check you are operating with the correct voltage. The Astro 100 LED can be operated between 100V and 260 VAC.

11. FREQUENCY

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

12. 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

13. MECHANICAL OPERATION

Focus control: this fixture features a variable beam angle from 10° to 28° 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-shaping: 4 accessory shutter blades (see chapter 7. Of this manual) can be fitted to shape the beam

Pan & Tilt control: this unit is fitted with a rear grab handle and a front side bar for an easy and safe control of the pan and tilt angle by the followspot's operator.

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 knob 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 knob is softly tightened at any time during operation

14. FUNCTIONS AND OPERATION

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

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

DMX: DMX LED status indicator, green color. 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

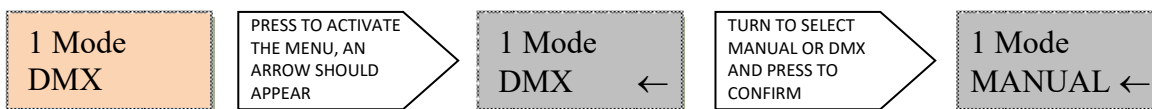
FUSE: 5x20 6.3A HPC FAST

15. MENU

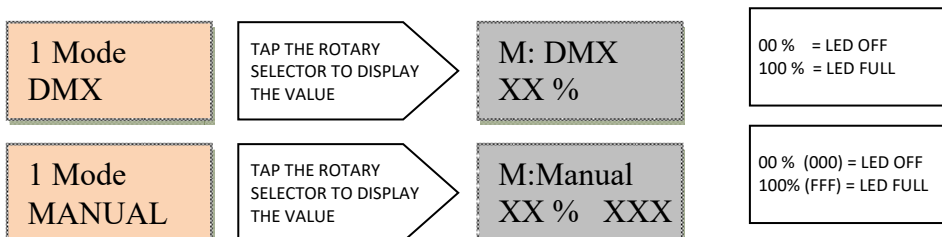
There are seventeen different menus to control the settings of the ASTRO 100 RGBW. The rotary selector is used to adjust the settings and to navigate through the menu. Turn left or right to select the menu and push to access or to confirm the selected data or functions. To exit the selected menus without saving the data, press the rotary selector for at least 1 second.

15.1 DMX OR MANUAL (Mode)

Select the LED control mode between DMX (factory setting) 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.

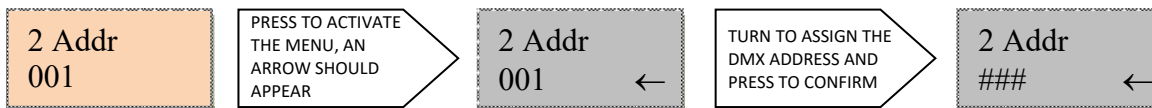


Tap the rotary selector and the LCD screen will display the mode status and the current value:



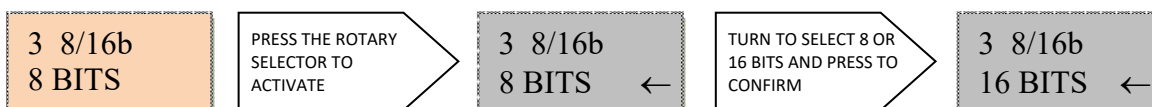
15.2 DMX ADDRESS (Addr)

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.



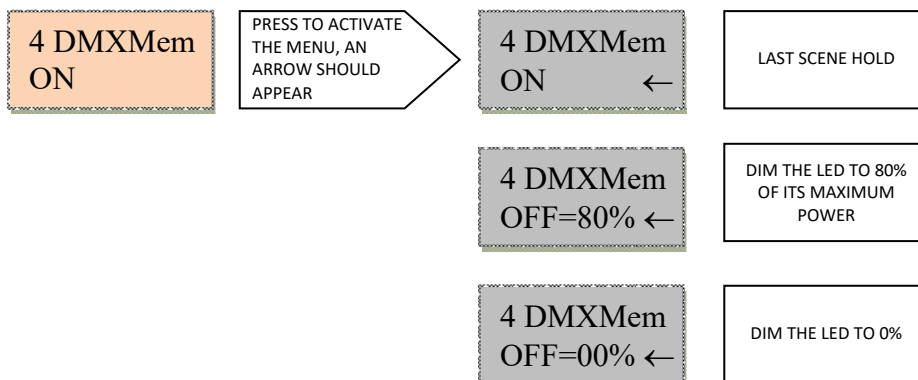
15.3 DIMMER RESOLUTION (8/16b)

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.



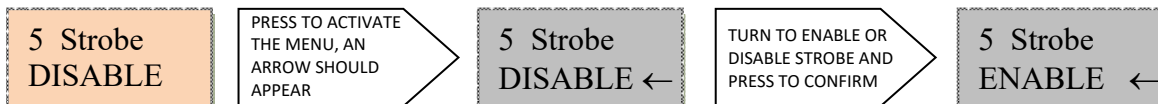
15.4 LOST DMX SIGNAL (DMXMem)

In case of signal failure this function allows to store in memory the last DMX value. Factory setting is ON. Three options are available:



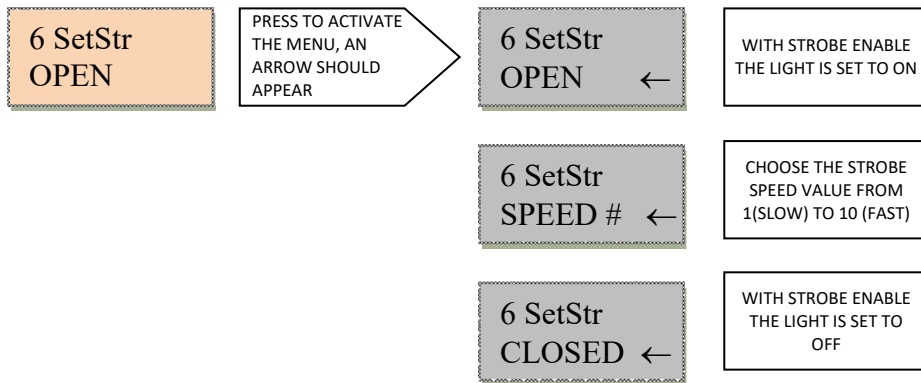
15.5 STROBE (Strobe)

This function enables the activation of the strobe function. Factory setting is DISABLE.



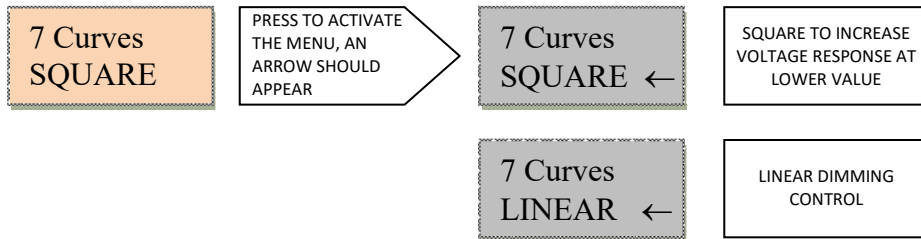
15.6 STROBE SPEED (SetStr)

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.



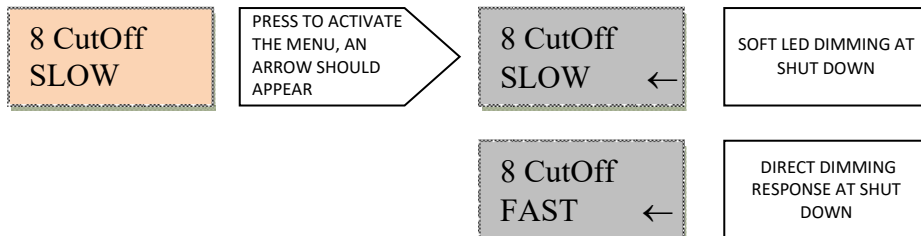
15.7 DIMMING CURVE (Curves)

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



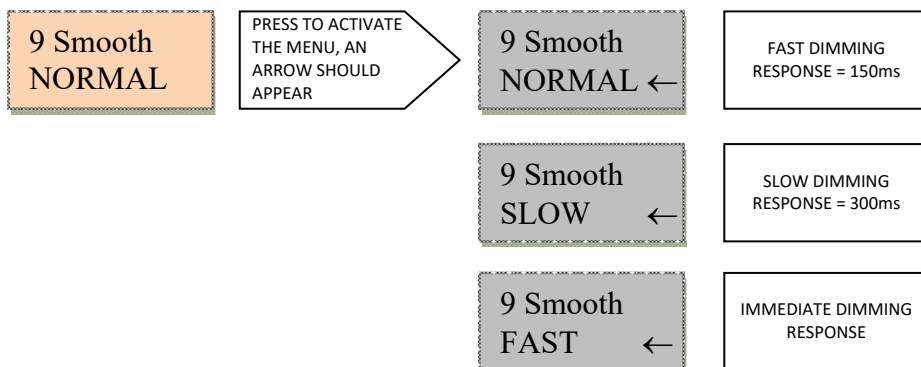
15.8 CUT OFF DIMMING RESPONSE (CutOff)

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



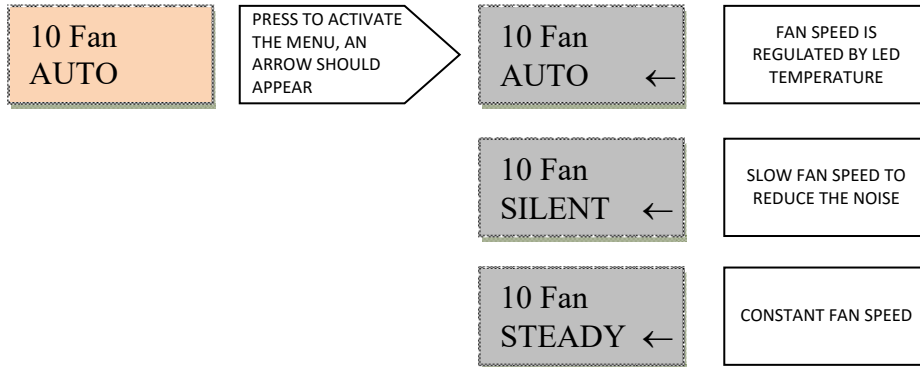
15.9 DIMMING BEHAVIOUR (Smooth)

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



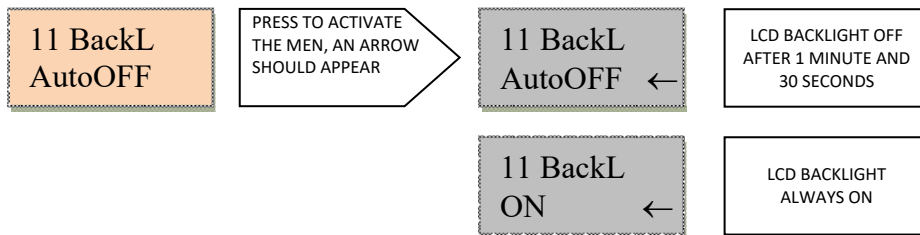
15.10 FAN SETTING (Fan)

This function allows to set the fan response. A choice of three modes is available: Automatic, Silent or Steady. When fan is in Auto mode, the speed is regulated by the LED temperature. When in Silent mode the fan runs slowly to reduce the noise; when 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 derating security system. Factory setting is AUTO



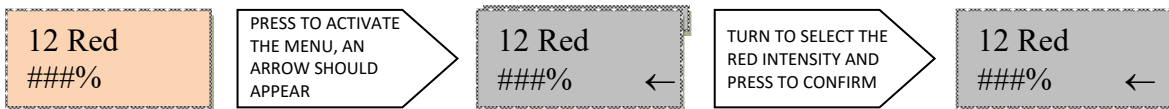
15.11 LCD SCREEN ILLUMINATION (BackL)

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.



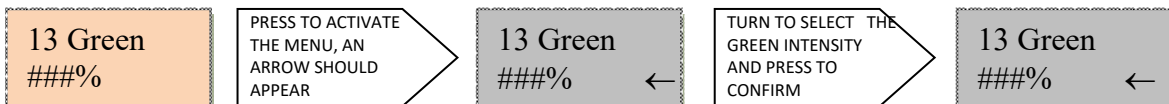
15.12 RED COLOUR INTENSITY (Red)

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



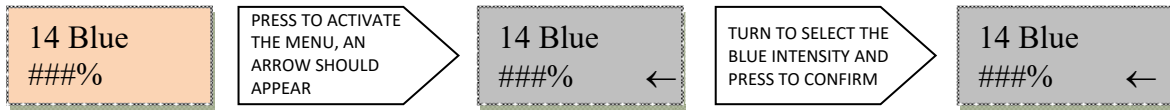
15.13 GREEN COLOUR INTENSITY (Green)

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



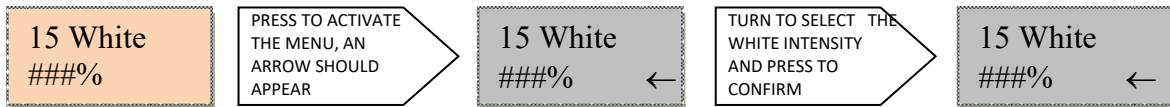
15.14 BLUE COLOUR INTENSITY (Blue)

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



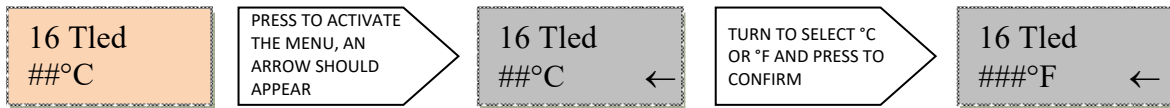
15.15 WHITE COLOUR INTENSITY (White)

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



15.16 TEMPERATURE CONTROL (Tled)

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



15.17 SOFTWARE VERSION (SwVer)

This function allows to visualize the software version.

There are also four different hidden menus which allow to select the advanced settings of the ASTRO 100 RGBW. To activate this function turn the ASTRO 100 OFF and ON by pressing the rotary switch at power on.

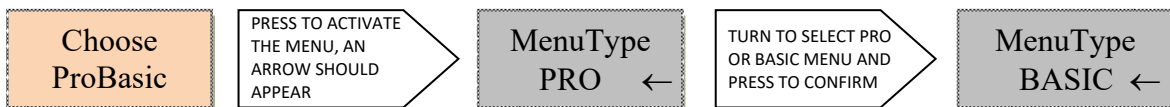
There are also four different hidden menus which allow to select the advanced settings of the CETRA LED. To activate this function turn OFF and ON the Cetra by pressing the rotary switch at power on.

15.18-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:

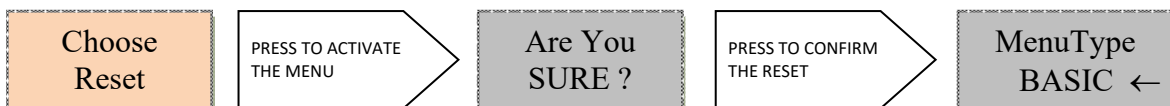
- ProBasic with the rotary switch and press to access the menu.
- PRO, to enable access to all the functions
- BASIC, to limit access to functions 15.1 DMX or MANUAL MODE, 15.2 DMX ADDRESS, 15.16 Temperature Control and 15.17 Software version.

Factory setting is PRO.



15.19-B FACTORY SETTINGS (Reset)

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



15.20-C ID REMOTO (ID Rem)

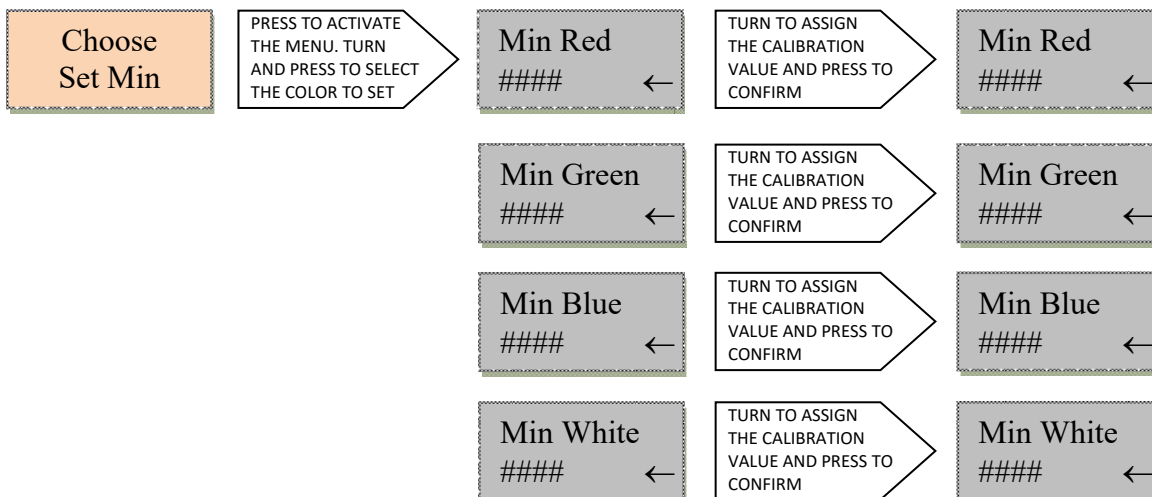
It allows to select the ID number to connect the ASTRO to REMOTO, a device which allows to upload and download firmware and to update the ASTRO software version. To change the initial ID press the rotary switch until an arrow appears, then turn to change to the desired ID number. Press to confirm your selection. It is possible to select an ID number from 0 to 250. If ID number=0 the remote control is not active.

Factory setting is 000.



15.21-D CALIBRATION (Set Min):

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



15.22-E EXIT HIDDEN MENU (Exit)

It allows to exit from hidden menus.

16. 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

LEDhouse 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 assembly by removing the two M5 cross head screws.
 Clean the lenses with a soft cloth and re-position

Zoom lenses:

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

17. 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.

18. 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.

19. SUMMARY OF CONTROLS AND FUNCTIONS

| # | Function | Description | Available Options | Factoring Setting |
|----|----------|---|---|-------------------|
| 1 | Mode | MANUAL or DMX control | MANUAL (controlled from the rotary switch or slider); DMX | DMX |
| 2 | Addr | Selects the DMX starting address; other remotely controlled functions are assigned in sequence to the 1st assigned DMX address | From 001 to 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% fades 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 is remotely controlled through DMX | OPEN = ON; SPEED = ## (select value from 01 slowest to 10 fastest); CLOSED = OFF | OPEN |
| 7 | Curves | Selects the dimming curve | SQUARE ; LINEAR | SQUARE |
| 8 | CutOff | Replicates the halogen lamp dimming behaviour at cut off | FAST = NOT ACTIVE; SLOW = ACTIVE | SLOW |
| # | Function | Description | Available Options | Factoring Setting |
| 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 | From 00% to 100% | --- |
| 13 | Green | Green intensity for manual mode | From 00% to 100% | --- |
| 14 | Blue | Blue intensity for manual mode | From 00% to 100% | --- |
| 15 | White | White intensity for manual mode | From 00% to 100% | --- |
| 16 | Tled | Visualize the LED temperature | Select the LED Temp in °C or F° | °C |
| 17 | SwVer | Visualize the software version | | --- |

| SPECIAL FUNCTIONS: to activate these functions press the rotary switch at power on | | | | |
|--|----------|--|---|-------------------|
| # | Function | Description | Available Options | Factoring Setting |
| A | ProBasic | Sets the available access from the control menu | PRO = Enables access to all functions BASIC = Limits the access to: 1 Mode, 2 Addr, 16 Tled and 17 SwVer | 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 | From 000 (no remote control) to 250 | 000 |
| D | Set Min | Sets the minimum output level of each colour | Red: from 000 to 9999 | --- |
| | | | Green: from 000 to 9999 | --- |
| | | | Blue: from 000 to 9999 | --- |
| | | | White: from 000 to 9999 | --- |
| E | Exit | Exits from hidden menus | | --- |

20. DMX Charts

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

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

| DMX Channel | Function | Type of Control | Effect | Decimal | | Percentage | |
|----------------------------------|---------------|-----------------|---|------------|-----|----------------|------|
| | | | | Min | Max | Min | Max |
| 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% |
| Luminaire: ASTRO 100 RGBW | | | Chart name: DMX512 Functions chart 1 (Default) | Issue: 1.0 | | Date: May 2023 | |

20.2 DMX chart 2 (16 bit dimmer enabled, strobe disabled)

This DMX chart refers to the followspot set with 16 bits resolution (See chapter 15.3 of this manual).

| 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% |
| Luminaire: ASTRO 100 RGBW | | | Chart name: DMX512 Functions chart 2 (16 bits) | Issue: 1.0 | | Date: May 2023 | |

20.3 DMX chart 3 (Strobe function enabled, 8 bit dimmer)

This DMX chart refers to the followspot set with strobe function on (See chapter 15.5 of this manual).

| 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 | 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 100 RGBW | | | Chart name: DMX512 Functions chart 3 (Strobe) | Issue: 1.0 | | Date: May 2023 | |

20.4 DMX chart 4 (16 bits dimmer and Strobe enabled) :

This DMX chart refers to the followspot set with 16 bits resolution and strobe function active (See chapter 15.3 and 15.5 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 | 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 100 RGBW | | | Chart name: DMX512 Functions chart 4 (16 bits + Strobe) | Issue: 1.0 | | Date: 2023 | |

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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 100 plus LED LUMINAIRES
Standard models and all their variants

I sono conformi alle seguenti normative:
EN conform to 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: 2009 | EQUIPMENT FOR GENERAL LIGHTING PURPOSES. EMC IMMUNITY REQUIREMENTS |
| EN 61000-3-2: 2018 | 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 VOLTAGECHANGES, 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 |
| FOLLOWING THE PROVISIONS OF EU ELECTROMAGNETIC COMPATIBILITY (EMC) DIRECTIVE 2014/30/EU | |
| EN 60598-1: 2015+A1: 2018 | LUMINAIRES. GENERAL REQUIREMENTS AND TEST |
| EN 60598-2-17: 2018 | LUMINAIRES. PARTICULAR REQUIREMENTS. SPECIFICATION FOR LUMINAIRES FOR STAGE LIGHTING, TELEVISION, FILM AND PHOTOGRAPHIC STUDIOS (OUTSIDE AND INDOOR) |
| EN IEC 62031: 2020 | LED MODULES FOR GENERAL LIGHTING SAFETY SPECIFICATIONS |
| EN 62493: 2015 | ASSESSMENT OF LIGHTING EQUIPMENT RELATED TO HUMAN EXPOSURE TO ELECTROMAGNETIC FIELD |
| EN 62471: 2008; IEC/TR 62778: 2014 | PHOTOBIOLOGICAL SAFETY OF LAMPS AND LAMP SYSTEMS |

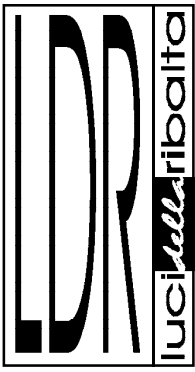
FOLLOWING THE PROVISIONS OF EU LOW VOLTAGE DIRECTIVE (LVD) 2014/35/EU

In faith, Lisa Papi, President

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web www.ldr.it riva 01815640204 c.iso IT01815640204

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 | <input type="checkbox"/> | 01107190 | Astro 100CM RGBW, |
| Faulty product | <input type="checkbox"/> | | 120W, 100/260V DMX512 |
| Defekte s Produkt | <input type="checkbox"/> | | |
| Produit défectueux | <input type="checkbox"/> | | |
| Producto defectuoso | <input type="checkbox"/> | | |
| | <input type="checkbox"/> | | |

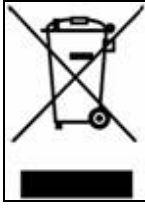
Descrizione del problema /Problem found/Beschreibung des Defekts/Description du défaut/Descripción del problema

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 (Residuos 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 Müllsammmlung 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. Lisätietoja 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 renovationselskab 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 neje likvidovat jako domovní odpad. Správnou likvidací tohoto produktu přispějete k ochraně životního prostředí. Podrobnější informace o likvidaci tohoto produktu vám podají místní úřady, společnost pro likvidaci komunálního odpadu nebo obchod, kde jste zboží zakoupili.

