



soundSation

Thesis
1912 Zoom

19 X 12W 4IN1 LED MOVING HEAD WITH ZOOM



USER MANUAL

Please read this manual carefully and take proper care of it.



Dear customer,

First of all thanks for purchasing a SOUNDSATION® product. Our mission is to satisfy all possible needs of musical instrument, professional audio and lighting users offering a wide range of products using the latest technologies.

We hope you will be satisfied with this item and, if you want to collaborate, we are looking for a feedback from you about the operation of the product and possible improvements to introduce in the next future. Go to our website www.soundsationmusic.com and send an e-mail with your opinion, this will help us to build instruments ever closer to customer's real requirements.

One last thing: read this manual before using the instrument, an incorrect operation can cause damages to you and to the unit. Take care!

The SOUNDSATION Team

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IMPORTANT SAFETY SYMBOLS



The symbol is used to indicate that some hazardous live terminals are involved within this apparatus, even under the normal operating conditions, which may be sufficient to constitute the risk of electric shock or death.



The symbol is used in the service documentation to indicate that specific component shall be replaced only by the component specified in that documentation for safety reasons.



Protective grounding terminal



Alternating current/voltage



Hazardous live terminal

ON

Denotes the apparatus is turned on

OFF

Denotes the apparatus is turned off

WARNING:

Describes precautions that should be observed to prevent the danger of injury or death to the operator.

CAUTION:

Describes precautions that should be observed to prevent danger of the apparatus.



To protect the environment, please try to recycle the packing material as much as possible



The projector is for indoor use only, IP20. Use only in dry locations. Keep this device away from rain and moisture, excessive heat, humidity and dust. Do not allow contact with water or any other fluids, or metallic objects.



Don't throw this product away just as general trash, please deal with the product follow the abandon electronic product regulation in your country.



Locate the fixture in a well ventilated spot, away from any flammable materials and/or liquids. The fixture must be fixed at least 50cm from surrounding walls

TAKING CARE OF YOUR PRODUCT

- ▶ Read these instructions
- ▶ Keep these instructions
- ▶ Heed all warning

- ▶ Follow all instructions

WATER / MOISTURE

The apparatus should be protected from moisture and rain and can not be used near water; for example near a bathtub, a kitchen sink, a swimming pool, etc.

CONDENSATION

To avoid condensation to be formed inside, allow this unit to adapt to the surrounding temperatures when bringing it into a warm room after transport. Condense sometimes prevents the unit from working at full performance or may even cause damages.

HEAT

The apparatus should be located away from heat sources such as radiators, stoves or other appliances that produce heat. Don not use it when maximum ambient temperature is higher than 40°C.

VENTILATION

Do not block areas of ventilation opening. Failure to do could result in fire. Always install according to the manufacturer's instructions.

OBJECT AND LIQUID ENTRY

Objects do not fall into and liquids are not spilled into the inside of the apparatus for safety.

POWER CORD AND PLUG

Protect power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus. Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two poles; a grounding-type plug has two poles and a third grounding terminal. The third prong is provided for your safety. If the provided plug does not fit into your outlet, refer to an electrician for replacement. Unplug the unit when it is not used for a longer time.

POWER SUPPLY

In case of external power supply, the apparatus should be connected to the power supply only of the type as marked on the apparatus or described in the manual. Failure to do could result in damage to the product and possibly the user. Unplug this apparatus during lightning storms or when unused for long periods of time.

ELECTRICAL CONNECTION

Always disconnect from the power source before servicing or replacing fuse and be sure to replace with same fuse size and type. Cut off power before moving, repairing and cleaning the unit. Improper electrical wiring may invalidate the product warranty.

To avoid electric shock, all fixtures must be connected to circuits with a suitable ground. Do not power on and power off the fixture in a short time.

DMX CONNECTION

When use DMX controller, please make sure that there is no interference sources (e.g. intercom, high frequency radio waves and radiation source).

CLEANING

Clean only with a dry cloth. Do not use any solvents such as benzene or alcohol.

SERVICING

Do not implement any servicing other than those means described in the manual. Refer all servicing to qualified service personnel only. Only use accessories/attachments or parts recommended by the manufacturer.

I. INTRODUCTION


Thank you for purchasing our THESIS 1912 ZOOM moving head. Enjoy your new equipment and make sure to read this manual carefully before operation!

This user manual is made to provide both an overview of controls, as well as information on how to use them. In order to help you to understand the connections between the various controls, we have gathered in groups according to their functions.

I.I. UNPACKING

Your THESIS 1912 ZOOM has been carefully packed to ensure safe transport. Despite this, we recommend you to carefully examine the package and its contents for any signs of physical damage, which can occur during transport. It is composed by following parts:

- ▶ Moving Head
- ▶ Power Cord
- ▶ 2 Clamps
- ▶ User manual

 **ATTENTION: Packaging bag is not a toy! Keep out of reach of children!!! Keep in a safe place the original packaging material for future use.**

If anything damaged during transport, notify the shipper immediately and keep the packing material for inspection. Again, please save the carton and all packing materials. If the fixture must be returned to manufacturer, it is important that the fixture be returned in the original manufacturer box and packing. Please do not take any action without first contacting us.

1.2. Accessories

SOUNDSATION can supply a wide range of quality accessories that you can use with your THESIS 1912 ZOOM moving head, like Cables, Splitters, DMX controllers, and a wide range of other fixtures.

All products in our catalogue has been long tested with this device, so we recommend you to use Genuine SOUNDSATION Accessories and Parts.

Ask your SOUNDSATION dealer or check out our website www.soundsationmusic.com for any accessories you could need to ensure best performance of the product.

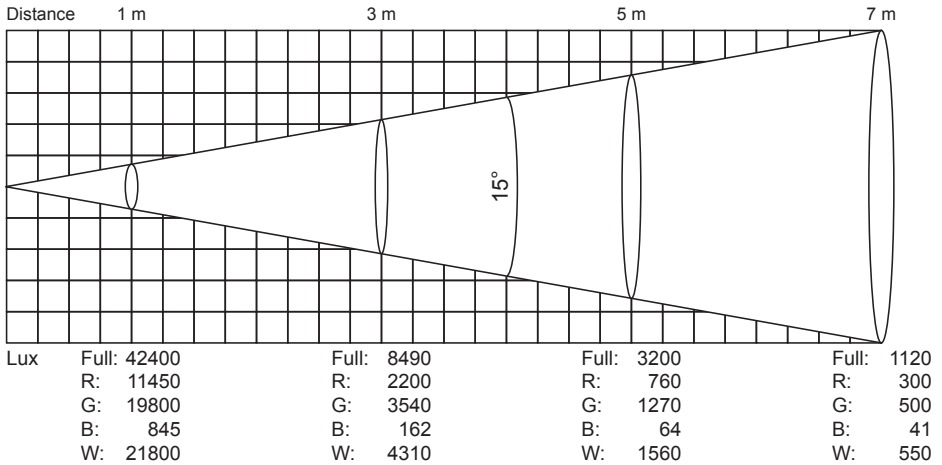
2. OVERVIEW

THESIS 1912 ZOOM LED moving head is part of a wider range of SOUNDSATION DMX intelligent LED Moving Head Lights. This lighting is compact, lightweight and very easy to use. It's been designed to meet more customers' demand, thanks to the ultra-smooth dimmer and Zoom (15°-60°) functions. It can be used as both spot and wash light, in order to meet various lighting applications. Not only, but thanks to the 16-bit of precision on movement driving and dimming, it creates extremely fine strobe, dimmer and positioning effects. Finally, the multi-function LCD operation is developed to help the user setting the unit up, making this fixture easy to use, reliable in performance and versatile in applications. A MUST for all lighting professionals.

3. MAIN FEATURES

- ▶ 19 x 12W RGBW CREE LEDs with max 42400 Lux (full bright @ 1m - 15° beam)
- ▶ Super long-life LED with 100000 hours operation, low energy consumption, energy saving and environmental protection LED
- ▶ Uniform RGBW color mixing system and rainbow effect, can pass through the white LED color temperature adjustment to be more rich and colorful color
- ▶ 0-100% Linear Dimmer with 65536 brightness levels, to achieve a truly 16-bit dimming and eliminate the eight-dimming low light jitter
- ▶ Smooth Zoom function from 15° to 60°
- ▶ Lens without attenuation
- ▶ 3 kinds of control modes: DMX, Master/Slave Auto, Sound Control
- ▶ 22/14 DMX Channel Modes
- ▶ 1~25t/s Strobe effects (with Electronic regulating or Random)
- ▶ Horizontal scanning: 540° (16-bit precision scanning)
- ▶ Vertical scanning: 265 ° (16-bit precision scanning)
- ▶ High speed electronic regulating strobe of up to 1-25 times/sec or random strobe
- ▶ TFT LCD display with user-friendly interface

3.1. Brightness Table (15° Beam)




4. MAINS CONNECTIONS

Connect the device to the mains with the supplied power cable. Please note that power voltage and frequency are the same as the marked voltage and frequency of device when connecting power.

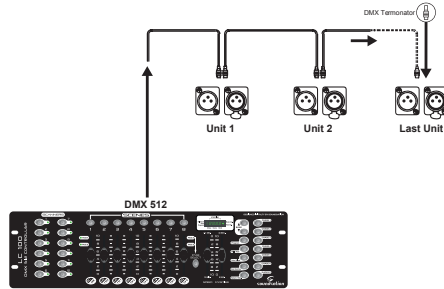
Wire correspondence is as follow:

Cable (EU)	Pin	International
Brown	Live	L
Blue	Neutral	N
Yellow/Green	Earth	⊕

 **The earth must to be connected! Pay attention to the safety! Before taking into operation for the first time, the installation has to be approved by an expert.**

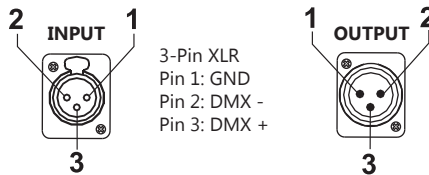
5. DMX CONNECTION

DMX fixtures are designed to receive data through a serial Daisy Chain. A Daisy Chain connection is where the DATA OUT of one fixture connects to the DATA IN of the next fixture. The order in which the fixtures are connected is not important and has no effect on how a controller communicates to each fixture. Use an order that provides for the easiest and most direct cabling.



Connect fixtures using shielded 2-conductor twisted pair cable with 3-pin XLR male to female connectors. The shield connection is pin 1, while pin 2 is Data Negative (S-), and pin 3 is Data positive (S+).

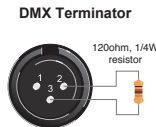
DMX use of 3-Pin XLR Connectors



CAUTION: Wires must not come into contact with each other; otherwise the fixtures will not work at all, or will not work properly.

5.1. DMX Terminator

DMX is a resilient communication protocol, however errors still occasionally occur. In order to prevent electrical noise from disturbing and corrupting the DMX control signals, a good habit is to connect DMX output of last fixture in the chain to a DMX terminator, especially over long signal cable runs.



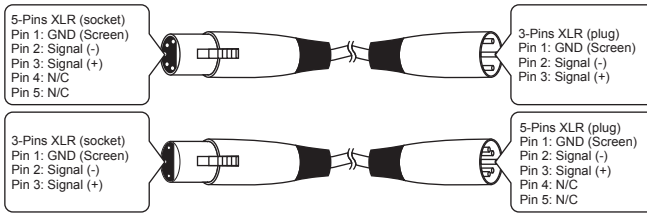
The DMX terminator is simply an XLR connector with a 120Ω (ohm), 1/4 Watt resistor connected across Signal (-) and Signal (+), respectively, pins 2 and 3, which is then plugged into the output socket on last projector in the chain. The connections are illustrated below.

Complimentary signal cable can transmits signals to 20 unit fixtures at most. Signal amplifier is a must to connect more fixtures.

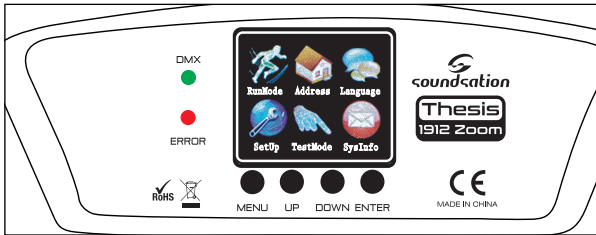
5.2.3-Pin vs 5-Pin DMX cables

DMX connection protocols used by controllers and fixtures manufacturers are not standardized around the world. However, two are the most common standards: 5-Pin XLR and 3-Pin XLR system. If you wish to connect THESIS 1912 ZOOM to a 5-Pin XLR input fixture, you need to use an adapter-cable or make it by yourself.

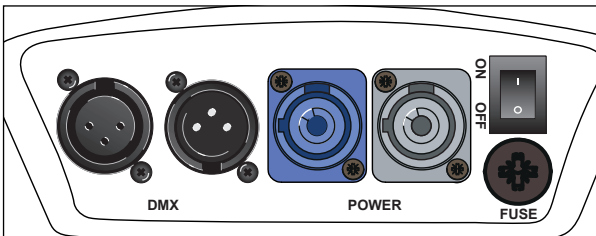
Following the wiring correspondence between 3-Pin and 5-Pin plug and socket standards



6. FRONT & REAR PANELS



Front panel is composed by an TFT LCD display, four buttons (1) MODE, (2) UP, (3) DOWN, (4) ENTER, which help the user to setup the fixture, and 2 LEDs: (5) DMX input monitor, (6) Error indicator.



Rear panel has following connections (starting from left side):

- ▶ DMX OUT (7) and DMX IN (8): 3-poles XLR Female/Male connectors for DMX512 protocol communication

- ▶ POWER IN (9) and POWER OUT (10) connectors for mains input and relaunch
- ▶ POWER Switch: when in ON position, the unit is switched on
- ▶ Fuse Holder: (10A - 250V)

7. TFT COLOR DISPLAY

At power on, the THEESIS 1912 ZOOM shows for about 40s a welcome screen during which the fixture performs the auto-run test of all motors and sensors. Once completed this self-test routine, the TFT LCD shows Main Menu page, and the fixture enters the operating mode chosen before last power-off (DMX, Auto or Sound). If no buttons are pressed for about 60 seconds, the display automatically shows the page related to the selected mode (DMX, Auto or Sound page). To come back to main menu, press any button (MENU, UP, DOWN, or ENTER) at any time.

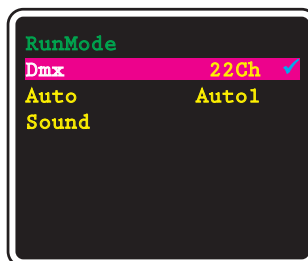
7.1. Main Menu

Main menu has 6 sub-menus: Run Mode, Address, Language, Setup, Test Mode and System. To select a sub-menu, press ENTER, UP or DOWN buttons, then ENTER again to confirm. The selected menu is highlighted in red.




RUN MODE

It allows the user to choose between different DMX channel modes, 8 different Auto modes, and Sound Control Mode.



DMX	22CH or 16CH DMX control mode
Auto	Auto1 – Auto8 mode
Sound	Sound control mode

To change run mode, select the desired function with UP and DOWN buttons (the name is highlighted in pink). Press ENTER and change value with UP and DOWN again. Once reached the desired value, press ENTER to confirm. The active mode is marked by a blue thick. Press MENU to go back to main menu.

 **NOTE: In case of multiple fixtures to be controlled at the same time, you can setup the master unit in Auto Mode (choosing 1 of the 8 preset available), and the slaves in DMX mode on the same DMX channel.**

WARNING: Sound control mode doesn't allow multiple fixtures to be controlled together in Master/Slave mode. This means that each fixture will be independently controlled by music.

ADDRESS MODE

You can change DMX channel between 1-512. To adjust, press UP and DOWN. Once done, press ENTER to confirm. Press MENU to go back to main menu.



LANGUAGE

It is possible to choose between Chinese and English. To adjust, press UP and DOWN. Once done, press ENTER to confirm. The active mode is marked by a blue thick. Press MENU to go back to main menu.



 **WARNING: Please note that after factory default language is Chinese**

SETUP

Here it is possible to change a lot of parameters to better adjust fixture operation to your needs.

SetUp	
PanReverse	OFF
TILTReverse	128
XCalibration	128
YCalibration	128
FCalibration	128
CodeWheel	ON
SignalLink	OFF

To modify, select the desired parameter with UP and DOWN buttons (the name is highlighted in pink). Press ENTER and change value with UP and DOWN again. Once reached the desired value, press ENTER to confirm. Press MENU to go back to main menu.

Available parameters are:

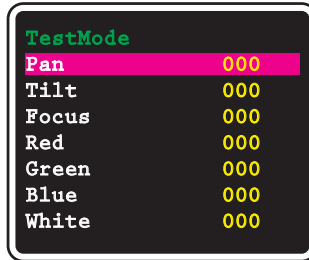
- ▶ PAN positive and negative rotate setting (ON/OFF)
- ▶ TILT positive and negative rotate setting (ON/OFF)
- ▶ X axis adjust setting (0-255)
- ▶ Y axis adjust setting (0-255)
- ▶ Zoom Calibration (0-255)
- ▶ Code Wheel (ON/OFF) – When ON, it allows XY positioning process to realize maximum range reset.
- ▶ Signal Link (ON/OFF) – when active, in case of disconnection of control signal, the light will blackout.
- ▶ Hand Spike Delay – When active, all DMX control events will reflect a little delay. In case of transmission errors, you can have the chance to cancel bad commands it before they are reflected on the fixture.
- ▶ ID code (0-25) – not used
- ▶ Temperature Set (50°C – 85°C) – It adjusts protection temperature so that when detected, the unit reduces half its brightness. To activate, put Temperature Switch Set to ON.
- ▶ Temperature Switch Set (ON/OFF) - Temperature protection switch.
- ▶ Screen Protection (ON/OFF) – When OFF, LCD display turns off after about 40 seconds without pressing any buttons; when ON, the LCD display shows the active operating mode (DMX channel, Auto 1-8 or Sound mode).

- ▶ Screen Rotation (ON/OFF) – When ON, LCD display is upside down.
- ▶ LOGO (ON/OFF) – When ON it shows LOGO at startup
- ▶ Reset (ON/OFF) – When ON it resets motors and restart fixture (without changing settings like DMX channel, operation mode, etc.).
- ▶ Red Current (20-255) – It adjusts red color output current
- ▶ Green Current (20-255) – It adjusts green color output current
- ▶ Blue Current (20-255) – It adjusts red blue output current
- ▶ White Current (20-255) – It adjusts white color output current
- ▶ Factory Settings (ON/OFF) – It resets the fixture at factory settings

 **WARNINGS: After factory reset language shown is Chinese.**

TEST MODE

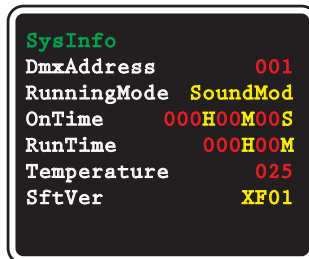
It allows to manually test the following functions (0-255):



SYSTEM INFORMATION

This menu is a quick show of main parameters of the machine:

- ▶ DMX address
- ▶ Running mode
- ▶ Turn-on time (h,m,s)
- ▶ Running time, that is lamp using total time (h,m)
- ▶ Temperature of lamp board
- ▶ Software version



8. DMX CHANNEL MODES

14-CH MODE

CH	DMX	Function
1	0-255	X axis motor
2	0-255	Y axis motor
3	0-255	Zoom motor
4	0-255	X axis fine adjustment (16Bit)
5	0-255	Y axis fine adjustment (16Bit)
6	0-255	X/Y Motor speed by fast to slow
7	0-255	Dimmer
8	0	No strobe
	1-255	Strobe from slow to fast
9	0-255	Red, dark to bright
10	0-255	Green, dark to bright
11	0-255	Blue, dark to bright
12	0-255	White, dark to bright
13	0-5	Don't call the macro function
	6-20	Selective Color (The motor is controlled by 512)
	21-40	Jump change (The motor is controlled by 512)
	41-60	Gradual change (The motor is controlled by 512)
	61-80	Pulse change (The motor is controlled by 512)
	81-100	Sound control 1 (The motor is controlled by 512)
	101-120	Sound control 2 (The motor is controlled by 512)
	121-140	Selective Color (Self-propelled motor)
	141-160	Jump change (Self-propelled motor)
	161-180	Gradual change
	181-200	Pulse change (Self-propelled motor)
14	201-220	Sound control 1 (Self-propelled motor)
	221-255	Sound control 2 (Self-propelled motor)
14	0-255	Selective Color, jump change, gradual change, Pulse change (Speed from slow to fast)

22-CH MODE

CH	DMX	Function
1	0-255	X axis motor
2	0-255	Y axis motor
3	0-255	Zoom motor
4	0-255	X axis fine adjustment □16Bit□
5	0-255	Y axis fine adjustment □16Bit□
6	0-255	X/Y Motor speed by fast to slow
7	0-255	Dimmer
8	0	No strobe
	1-255	Strobe from slow to fast
9	0-255	Red1, dark to bright

10	0-255	Green1, dark to bright
11	0-255	Blue1, dark to bright
12	0-255	White1, dark to bright
13	0-255	Red2, dark to bright
14	0-255	Green2, dark to bright
15	0-255	Blue2, dark to bright
16	0-255	White2, dark to bright
17	0-255	Red3, dark to bright
18	0-255	Green3, dark to bright
19	0-255	Blue3, dark to bright
20	0-255	White3, dark to bright
21	0-5	Don't call the macro function
	6-20	Selective Color (The motor is controlled by 512)
	21-40	Jump change (The motor is controlled by 512)
	41-60	Gradual change (The motor is controlled by 512)
	61-80	Pulse change (The motor is controlled by 512)
	81-100	Sound control 1 (The motor is controlled by 512)
	101-120	Sound control 2 (The motor is controlled by 512)
	121-140	Selective Color (Self-propelled motor)
	141-160	Jump change (Self-propelled motor)
	161-180	Gradual change
	181-200	Pulse change (Self-propelled motor)
201-220	Sound control 1 (Self-propelled motor)	
221-255	Sound control 2 (Self-propelled motor)	
22	0-255	Selective Color, jump change, gradual change, Pulse change (Speed from slow to fast)

9. TECHNICAL SPECIFICATIONS

Light Source	19 pieces of 12W RGBW 4in1 high brightness CREE LEDs
Luminance	Max 42400 Lux @1m (Full bright, 15° Beam Angle)
LED lifetime	Around 100,000 hours
Beam Angle	From 15° to 60° with DMX controlled zoom
Lens	Without attenuation
PAN	540° (16bit precision scanning)
TILT	265° (16bit precision scanning)
Operation mode	DMX control, Master/slave, Auto run, Sound
DMX Mode	14CH and 22CH
Dimmer	0-100% Linear Dimmer with 65536 brightness levels
Strobe	1~25t/s Strobe effects (with Electronic regulating or Random)
Noise	48.1dB @ 7m; 48.2dB @ 6m; 49.2 dB @1m
Voltage	AC 100-240V / 50~60Hz
Power consumption	300W
Fuse	F10A L250V (5x20 mm)
Fixture Size (LxHxD)	300 x 410 x 200 mm

Fixture Weight	7.6 kg
IP Rate	IP20
Packing Size (LxHxD)	400 x 450 x 400 mm
Packing Weight	9.0 kg

Our products are subject to change. Modifications to technical features remain subject to change without notice.

10. WARRANTY AND SERVICE

All SOUNDSATION products feature a limited two-year warranty. This two-year warranty is specific to the date of purchase as shown on your purchase receipt.

The following cases/components are not covered from the above warranty:

- Any accessories supplied with the product
- Improper use
- Fault due to wear and tear
- Any modification of the product effected by the user or a third party

SOUNDSATION shall satisfy the warranty obligations by remedying any material or manufacturing faults free of charge at SOUNDSATION's discretion either by repair or by exchanging individual parts or the entire appliance. Any defective parts removed from a product during the course of a warranty claim shall become the property of SOUNDSATION.

While under warranty period, defective products may be returned to your local SOUNDSATION dealer together with original proof of purchase. To avoid any damages in transit, please use the original packaging if available. Alternatively you can send the product to SOUNDSATION SERVICE CENTER – Via Enzo Ferrari , 10 – 62017 Porto Recanati - Italy . In order to send a product to service center you need an RMA number. Shipping charges have to be covered by the owner of the product.

For further information please visit www.soundsationmusic.com

11. WARNING

PLEASE READ CAREFULLY – EU and EEA (Norway, Iceland and Liechtenstein) only



This symbol indicates that this product is not to be disposed of with your household waste, according to the WEEE Directive (2202/96/EC) and your national law.

This product should be handed over to a designated collection point, e.g., on an authorized one-for-one basis when you buy a new similar product or to an authorized collection site for recycling waste electrical and electronic equipment (WEEE).

Improper handling of this type of waste could have a possible negative impact on the environment and human health due to potentially hazardous substances that are generally associated with EEE. At the same time, your cooperation in the correct disposal of this product will contribute to the effective usage of natural resources.

For more information about where you can drop off your waste equipment for recycling, please contact your local city office, waste authority, approved WEEE scheme or your household waste disposal service.



MADE IN CHINA

This product is imported in EU by
Questo prodotto viene importato nella UE da
FRENEXPORT SPA – Via Enzo Ferrari, 10 - 62017 Porto Recanati - Italy

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