USER'S MANUAL BEDIENUNGSANLEITUNG MANUEL D`UTILISATION MANUAL DE USUARIO INSTRUKCJA OBSŁUGI MANUALE D' USO





## LDNEI1000G<sup>2</sup> WIRELESS IN EAR MONITORING SYSTEM

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#### ENGLISH

#### YOU'VE MADE THE RIGHT CHOICE!

We have designed this product to operate reliably over many years. LD Systems stands for this with its name and many years of experience as a manufacturer of high-quality audio products. Please read this User's Manual carefully, so that you can begin making optimum use of your LD Systems product quickly. You can find more information about **LD-SYSTEMS** at our Internet site WWW.**LD-SYSTEMS**.COM

#### **PREVENTIVE MEASURES**

1. Please read these instructions carefully.

- 2. Keep all information and instructions in a safe place.
- 3. Follow the instructions.
- 4. Observe all safety warnings. Never remove safety warnings or other information from the equipment.

5. Use the equipment only in the intended manner and for the intended purpose.

6. Use only sufficiently stable and compatible stands and/or mounts (for fixed installations). Make certain that wall mounts are properly installed and secured. Make certain that the equipment is installed securely and cannot fall down.

7. During installation, observe the applicable safety regulations for your country.

8. Never install and operate the equipment near radiators, heat registers, ovens or other sources of heat. Make certain that the equipment is always installed so that is cooled sufficiently and cannot overheat.

9. Never place sources of ignition, e.g., burning candles, on the equipment.

10. Ventilation slits must not be blocked.

11. This appliance is designed exclusively for indoor use, do not use this equipment in the immediate vicinity of water (does not apply to special outdoor equipment - in this case, observe the special instructions noted below). Do not expose this equipment to flammable materials, fluids or gases.

12. Make certain that dripping or splashed water cannot enter the equipment. Do not place containers filled with liquids, such as vases or drinking vessels, on the equipment.

13. Make certain that objects cannot fall into the device.

- 14. Use this equipment only with the accessories recommended and intended by the manufacturer.
- 15. Do not open or modify this equipment.

16. After connecting the equipment, check all cables in order to prevent damage or accidents, e.g., due to tripping hazards.

17. During transport, make certain that the equipment cannot fall down and possibly cause property damage and personal injuries.

18. If your equipment is no longer functioning properly, if fluids or objects have gotten inside the equipment or if it has been damaged in another way, switch it off immediately and unplug it from the mains outlet (if it is a powered device). This equipment may only be repaired by authorized, qualified personnel.

19. Clean the equipment using a dry cloth.

20. Comply with all applicable disposal laws in your country. During disposal of packaging, please separate plastic and paper/cardboard.

21. Plastic bags must be kept out of reach of children.

#### FOR EQUIPMENT THAT CONNECTS TO THE POWER MAINS:

22. CAUTION: If the power cord of the device is equipped with an earthing contact, then it must be connected to an outlet with a protective ground. Never deactivate the protective ground of a power cord.

23. If the equipment has been exposed to strong fluctuations in temperature (for example, after transport), do not switch it on immediately. Moisture and condensation could damage the equipment. Do not switch on the equipment until it has reached room temperature.

24. Before connecting the equipment to the power outlet, first verify that the mains voltage and frequency match the values specified on the equipment. If the equipment has a voltage selection switch, connect the equipment to the power outlet only if the equipment values and the mains power values match. If the included power cord or power adapter does not fit in your wall outlet, contact your electrician.

25. Do not step on the power cord. Make certain that the power cable does not become kinked, especially at the mains outlet and/or power adapter and the equipment connector.

26. When connecting the equipment, make certain that the power cord or power adapter is always freely accessible. Always disconnect the equipment from the power supply if the equipment is not in use or if you want to clean the equipment. Always unplug the power cord and power adapter from the power outlet at the plug or adapter and not by pulling on the cord. Never touch the power cord and power adapter with wet hands.

27. Whenever possible, avoid switching the equipment on and off in quick succession because otherwise this can shorten the useful life of the equipment.

28. IMPORTANT INFORMATION: Replace fuses only with fuses of the same type and rating. If a fuse blows repeatedly, please contact an authorised service centre.

29. To disconnect the equipment from the power mains completely, unplug the power cord or power adapter from the power outlet.
30. If your device is equipped with a Volex power connector, the mating Volex equipment connector must be unlocked before it can be removed.
However, this also means that the equipment can slide and fall down if the power cable is pulled, which can lead to personal injuries and/or other damage. For this reason, always be careful when laving cables.

31. Unplug the power cord and power adapter from the power outlet if there is a risk of a lightning strike or before extended periods of disuse. 32. The device must only be installed in a voltage-free condition (disconnect the mains plug from the mains).

33. Dust and other debris inside the unit may cause damage. The unit should be regularly serviced or cleaned (no guarantee) depending on ambient conditions (dust etc., nicotine, fog) by qualified personnel to prevent overheating and malfunction.

34. Please keep a distance of at least 0.5 m to any combustible materials.

35. Power cables to power multiple devices must have a cross-section of at least 1.5 mm<sup>2</sup>. Within the EU, the cables must correspond to H05W-F, or similar. Suitable cables are offered by Adam Hall. With these cables, you can connect multiple devices via the power OUT connection to the power IN connection of an additional device. Make sure that the total current consumption of all connected devices does not exceed the specified value on all connected devices (label on the device). Make sure to keep power cable connections as short as possible.



#### CAUTION:

To reduce the risk of electric shock, do not remove cover (or back). There are no user serviceable parts inside. Maintenance and repairs should be exclusively carried out by qualified service personnel.



The warning triangle with lightning symbol indicates dangerous uninsulated voltage inside the unit, which may cause an electrical shock.



The warning triangle with exclamation mark indicates important operating and maintenance instructions.

#### CAUTION - HIGH VOLUME LEVELS WITH AUDIO PRODUCTS!

This equipment is intended for professional use. Therefore, commercial use of this equipment is subject to the respectively applicable national accident prevention rules and regulations. As a manufacturer, Adam Hall is obligated to notify you formally about the existence of potential health risks.

Hearing damage due to high volume and prolonged exposure: When in use, this product is capable of producing high sound-pressure levels (SPL) that can lead to irreversible hearing damage in performers, employees, and audience members. For this reason, avoid prolonged exposure to volumes in excess of 90 dB.



To prevent possible hearing damage, avoid listening at high volume levels over long periods of time. Even exposure to short bursts of loud noise can result in hearing loss. Please keep the volume constantly at a comfortable level.

#### INTRODUCTION

The new LD Systems MEI1000G2 is an In-Ear Monitoring-System that delivers natural sound with a large dynamic range and outstanding crosstalk behaviour.

Switchable mono, stereo, and focus monitoring modes as well as adjustable EQ and limiter functions permit natural sound reproduction for any application, with a frequency response of 60 Hz – 16 Hz, a high S/N ratio, and low THD. The LD MEI1000G2 allows for the simultaneous operation of up to 5 systems.

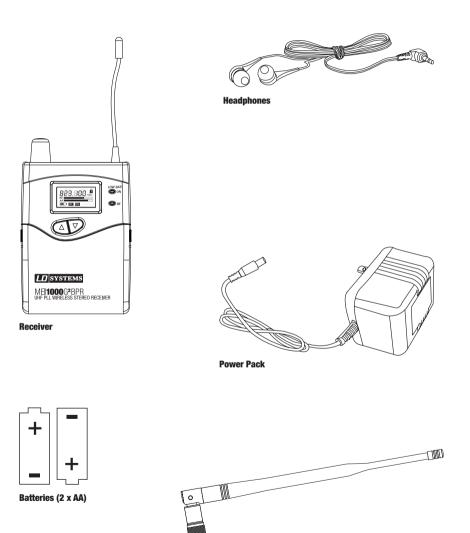
The earphones are very comfortable to wear, and the multifunctional display on the receiver shows all relevant system information. With high quality batteries, it is possible to attain operating times of 12 hours and more. The MEI100G2 package includes a 19" rackmount kit and a rugged carrying case made of ABS plastic.

The use of wireless microphone systems may require a license according to country-specific regulations. Please contact your local appropriate authority for more information.

#### **SYSTEM COMPONENTS**



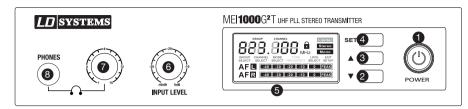
Transmitter



Antenna

#### **CONNECTIONS. CONTROLS AND INDICATORS**

#### FRONT PANEL TRANSMITTER



#### **1** POWER BUTTON

Switch on: Press and hold button for two seconds. Switch off: Press and hold button for two seconds.

#### **2** ARROW UP. INCREASE VALUE

See "System setup".

**3** ARROW DOWN, DECREASE VALUE

See "System setup".

#### **4** PROGRAMMING BUTTON (SET)

See "System setup".

**5** LC DISPLAY See "System setup".

#### **6** INPUT LEVEL

Adjust the input sensitivity. In order to achieve an optimal signal to noise ratio, bring the input signal as close as possible to the OdB indicator (level indicator AF L and AF R in the display), without exceeding the distortion limit (PEAK segment in the level meter).

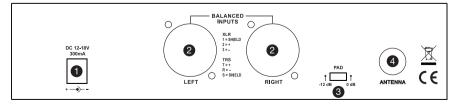
#### HEADPHONE VOLUME CONTROL

Turning the knob to the left decreases the volume; turning it to the right increases the volume. To avoid hearing damage, set the volume to minimum before using the earphones/headphones, then slowly increase the volume. Caution: high volume can cause permanent hearing damage.

#### **8** PHONES

Headphone output connector 6.3 mm stereo jack.

#### **REAR PANEL TRANSMITTER**



#### **1** LOW VOLTAGE CONNECTOR

Power supply connector for 12 - 18V DC (included).

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#### **2** BALANCED INPUT LEFT/RIGHT

Left and right-hand balanced inputs (XLR / 6.3 mm jack combo). In the mono mode, only the right input (RIGHT) may be used.

#### 3 PAD

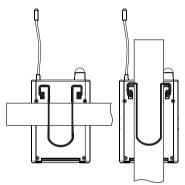
Switchable level attenuation for high input level. Switch in position -12 dB: Attenuation of the input signal by 12 db. Switch in position 0 dB: No attenuation of the input signal.

#### **4** ANTENNA

BNC antenna connector 50 Ohm.

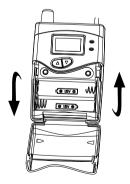
#### **BELT PACK TRANSMITTER**

**BELT CLIP** 



Clip the receiver to your belt or a suitable strap. For optimum fit, the clip should always be pushed all the way over the belt and/or strap (see illustration).

#### **BATTERY REPLACEMENT**



To replace the batteries, press gently on the marked spots on the sides of the battery cover and flip it forward. Remove the batteries, insert two new AA-batteries (for orientation please see the illustration in the battery compartment) and close the cover. Remove the batteries when the device is not in use for an extended period.

#### **1** MICROPHONE HEAD GRILLE

#### **2** POWER/BATTERY STATUS INDICATOR

Red LED lights up when the battery is low, Green LED lights up when the power is on and the battery status is okay.

#### **3** POWER SWITCH

#### **4** BATTERY COVER

## **5** IR WINDOW

#### **CHANGING BATTERIES**

Red LED ligThe operating time of the batteries (alkaline) is approx. 10-12 hours. Change the batteries as soon as the red LED blinks.

#### **BODY PACK RECEIVER**

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#### ON/OFF SWITCH AND VOLUME CONTROL FOR EARPHONE/HEADPHONE OUTPUT

To switch on, turn the knob to the right (clockwise) past the snap-in point. To switch off, turn the knob to the left (counter clockwise) past the snap-in point. Turning the knob to the left decreases the volume; turning it to the right increases the volume. To avoid hearing damage, set the volume to minimum before using the earphones/headphones, then slowly increase the volume. Caution: high volume can cause permanent hearing damage.

#### **2** PHONES

Earphone/headphone connector 3.5 mm stereo jack.

#### **3** ANTENNA

#### 4 LC DISPLAY

Backlit LC Display. The back light automatically turns off after about 30 seconds if no control buttons are pressed; the back light is turned on when any of the control buttons is selected. See Chapter "System Setup".

#### **5** LOW BATT LED

LED lights when the battery charge is low. Please replace the batteries as soon as possible.

#### 6 RF SIGNAL LED

Lights up briefly when you switch on. Lights up when a HF signal is present. Radio frequency of both transmitter and receiver must match.

## **O** ARROW UP, INCREASE VALUE

See Chapter "System Setup".

#### **8** ARROW DOWN, DECREASE VALUE

See Chapter "System Setup".



Press this button to return to the main menu.

#### **1** SET BUTTON

See Chapter "System Setup".

#### SYSTEM SETUP

#### TRANSMITTER PROGRAMMING

#### **1** MAIN MENU

In the main menu the radio frequency, the operating mode (mono/stereo) and signal level (AF L and AF R) are displayed.



#### **2** SELECTING A FREQUENCY GROUP

Press the SET button repeatedly until "GROUP SELECT" appears in the display. Press the keys **V** to select the desired frequency group.

88	GROUP			
GROUP SELECT				
AFI				
		(	2	

#### **3** SELECTING A CHANNEL

Press the SET button repeatedly until "CHANNEL SELECT" appears in the display. Press the keys **A V** to select the desired channel. Note: For simultaneous operation of several systems, please make sure that all the systems use different channels on the same frequency group.

		58.	
CHANNEL	MODE	TUNE	
	(	3	

#### **4** SELECTING THE OPERATING MODE

Press the SET button repeatedly until "MODE SELECT" appears in the display. With the▲ ▼ buttons, you can now choose between mono and stereo mode. Select the mono mode if only one (mono) audio signal is to be transmitted to the receiver. The signal is located on two channels (left/right) of the receiver. In the mono mode, only the right input (INPUT RIGHT) may be used. Select the stereo mode if either a stereo signal, or two mono signals are to be transmitted to the receiver. Please refer to the notes in the Stereo and Focus Mode chapter.

8	GROUP	CHANNEL EIS	8 .	 tereo
GROUP SELECT	CHANNEL	MODE		EXIT
		4		 )

#### **5** LOCK AGAINST INADVERTENT CHANGES

Press the SET button repeatedly until "LOCK SELECT" appears in the display. Press the keys **V** to lock or unlock the system. If "LOCK SELECT is enabled, the system settings can be viewed, but not changed.

#### **EXIT THE SETUP MENU**

Press the SET button repeatedly until "EXIT SETUP" appears in the display. Press the keys **A V** to exit the menu. If no control buttons are pressed, the display switches automatically to the main menu after a few seconds.

#### **RECEIVER PROGRAMMING**

To change settings on the receiver, press gently on the marked spots on the sides of the battery cover and flip it forward. The Escape (ESC) and SET buttons are now accessible. To return to the main menu after a setting change, press the Escape button (ESC).

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#### MAIN MENU

In the main menu, the radio frequency, RF and AF level, mono / stereo mode, EQ, limiter, as well as the lock status are displayed.



#### **2** BALANCE

Adjust the volume balance between the left and right channels of a stereo signal using the  $\blacktriangle \nabla$  buttons. When the transmitter is in mono mode, using the  $\blacktriangle \nabla$  buttons will set the position of the signal in the panoramic field.

#### **3** SELECTING A FREQUENCY GROUP

Press the SET button repeatedly on the receiver until "GROUP" appears and starts to flash. Press the keys A Vto select the desired frequency group.



#### **4** SELECTING A CHANNEL

Press the SET button until "CHANNEL" appears in the display and flashes, and then select▲. ▼ the desired channel using.



#### **6** EQUALIZER

Press the SET button repeatedly until "EQ" appears in the display and flashes. Use the buttons  $\blacktriangle \nabla$  to determine whether the Equalizer should be enabled (EQ ON), or disabled (EQ OFF). When the EQ is enabled, the treble at 10kHz is increased by around 6dB.



#### **6** LIMITER

Press the SET button repeatedly until "LIMITER" appears in the display and flashes. Using the **A V** button, you can enable (Limiter ON) or disable (limiter OFF) the limiter.



#### **1** LOCKING THE RECEIVER

Press the SET button repeatedly until "LIMITER" appears in the display and flashes. Using the **A V** button, you can enable (Limiter ON) or disable (limiter OFF) the limiter.

# GROUP CHANNEL OF CHANN

#### **BATTERY CHARGE STATUS**

The charge status of the batteries is shown in four stages. In addition to the fourth stage (no bars on the battery symbol) the red LOW BATT LED will light up next to the display. The batteries should now be replaced immediately.

#### **RECEIVER PROGRAMMING**



#### 1 + 2 STEREO MODE

Select the stereo mode for the transmission of a stereophonic audio signal. Press the SET button repeatedly until "F0 OFF" or "F0 ON" appears in the display and flashes. Using the  $\blacktriangle$  vbuttons, you can now activate the stereo mode (F0 OFF). In stereo mode, the two input signals of the transmitter can be heard through headphones (on the left and right) connected to the receiver

On the receiver, the balance between the two input signals can be set with the help of the  $\blacktriangle$   $\forall$  buttons. A total of 31 levels are available : using the  $\blacktriangle$  button, the centre location of a stereo signal can be changed by 15 levels to the right (1-, 2-, 3-, 4-, 5-, 6-, 7-, 8-, 9-, A-, b-, C-, d-, E-, F)  $\forall$  and by 15 levels to the left (-1, -2, -3, -4, -5, -6, -7, -8, -9, -A, -b, -C, -d, -E, -F). To bring the centre location of a stereo base, please select the -0- setting. To ensure the transmission of a stereo audio signal in the stereo mode, both the transmitter and the receiver have to be in stereo mode and an audio signal has to be present at the INPUT LEFT and RIGHT entrances. When the transmitter is in mono mode, only the audio signal (INPUT RIGHT) is being transferred.



#### 3 + 4 FOCUS MODE (ALSO KNOWN AS "DUAL MONO")

Select the Focus mode in order to listen to two mono signals in the centre of the panoramic field, and to customize their volume.Example Rock Band (user is the lead singer): the first mono audio signal comprises a mix of drums, bass and guitar (the mixer is fed by a monitor signal 1). The second mono audio signal contains the microphone signal of the singer (the mixer is fed by monitor signal 2). The singer can now directly adjust the volume balance between the instruments and his voice and the overall volume level.

Press the SET button repeatedly until "FO OFF" or "FO ON" appears in the display and flashes. Using the **A V** buttons, you can now activate the Focus mode (FO ON).

In Focus mode the two input signals of the transmitter are mixed together and played back in mono. The user can now directly adjust the volume balance of the signals  $\blacktriangle \forall$  by up to 31 levels with the help of the buttons on the receiver To push the mono signal of the transmitter (INPUT RIGHT) into the background, use the button  $\bigstar$  (15 levels: FOC 1-, 2-, 3-, 4-, 5-, 6-, 7-, 8-, 9-, A-, b-, C-, d-, E-, max. F-). The volume balance is changed in favour of the audio signal at the left input (INPUT LEFT) of the transmitter.

ENGLISH

To push the mono signal of the transmitter (INPUT LEFT) into the background, use the button  $\mathbf{\nabla}$  (15 levels: FOC -1, -2, -3, -4, -5, -6, -7, -8, -9, -A, -b, -C, -d, -E, a max. -F). The volume balance is changed in favour of the audio signal at the right input (INPUT RIGHT) of the transmitter. In the FOC -0- setting, both input signals of the transmitter are transmitted at the same volume.

To ensure the transmission of a stereo audio signal in the Focus mode, both the transmitter and the receiver have to be in stereo mode and an audio signal must be present at both INPUT LEFT and RIGHT entrances. When the transmitter is in mono mode, only the (INPUT RIGHT) audio signal is being transmitted.

#### SETUP AND TROUBLESHOOTING

#### SETUP

For optimal transmission, position the transmitter at a minimum height of 1 m and point the antenna upwards. If multiple wireless systems are used in an installation, please make sure that the antennas do not touch or cross. Do not position the transmitter in the direct vicinity of metal objects and digitally controlled devices (CD players, computers, digital consoles, etc.). Transmitter and receiver should be within direct "line of sight" of each other.

#### TROUBLESHOOTING

PROBLEM	DISPLAY	SOLUTION
	Receiver: Display is switched off.	Make certain that the batteries are not dead and the receiver is on.
	Transmitter: Display is switched off.	Check the connection between power supply and transmitter. Turn on the transmitter.
		Make certain that the transmitter and receiver are set to the same radio frequency.
No sound or volume too low.	Receiver: is on, but the RF indicator is not lit.	Reduce the distance between transmitter and receiver and make certain that there is a direct line of sight between transmitter and receiver.
		Make certain that the transmitter antenna is installed correctly.
	Receiver: is on and the RF indicator	Increase the volume at the receiver and check the headphone connection.
	is lit.	Check the input level on the transmitter and increase it if necessary.
Distortion or noise.	Receiver: RF indicator is on.	Increase the distance to possible causes of interfe- rence (digitally controlled devices, e.g., CD players, computers, digital consoles).
		Use a different radio frequency.
	Receiver: LOW BATT LED lights up	Replace the batteries with new ones.
Distorted sound.	Transmitter: Level indicator is too high	Lower the volume at the level controls of the transmitter or at the source device.
Stereo and Focus mode: Only the right input signal of the transmitter is heard, although the receiver is in the stereo mode and both inputs of the transmitter are used.	Transmitter: The transmitter is in the mono mode.	Switch the transmitter to the stereo mode.
A mono signal is to be transmitted, but the sig- nal is only heard on one side of the headphones.	Transmitter: The transmitter is in the stereo mode.	Switch the transmitter to the mono mode.
Two mono signals are to be heard centred in the headphones, but are distributed left and right		Switch the receiver to the Focus mode.

## **SPECIFICATIONS**

Model name:	LDMEI1000G2
Product type:	In-Ear Monitoring Set
Radio frequency range:	LDMEI100G2: 823 - 832 MHz and 863 - 865 MHz LDMEI100G2B5: 584 - 607 MHz LDMEI100G2B6: 655 - 679 MHz
Weight:	1,3 kg

	LDMEI1000G2BPR
Product type:	Belt pack receiver
Channels:	LDMEI100G2: 96 (8 groups of 12 channels) LDMEI100G2B5/B6: 120 (10 groups of 12 channels)
Transmission technology:	FM, stereo
Frequency range:	60 Hz - 16000 Hz
Antenna gain:	0.5 dBi
S/N ratio:	80 dB
Total Harmonic Distortion (THD):	< 1%
Audio outputs:	3.5 mm stereo jack
Max. audio output level:	100 mW
Controls:	Up, Down, Set, Volume, Escape
Indicators	LC-Display, Low Battery, RF
Power supply:	2 x 1.5 V AA
Operating time:	> 12 hrs., battery-dependent
Width:	65 mm
Height:	90 mm
Depth:	24 mm
Weight:	0,1 kg (without batteries)

LDMEI1000G2T		
Product type:	Transmitter	
Channels:	LDMEI100G2: 96 (8 groups of 12 channels) LDMEI100G2B5/B6: 120 (10 groups of 12 channels)	
Transmission technology:	FM, stereo	
HF output power:	10 mW	
Frequency range:	60 Hz - 16000 Hz	
Antenna gain:	2.15 dBi	
S/N ratio:	85 dB	
Inputs:	2	
Input connections:	6.3 mm TRS, XLR	
Input impedance (k0hm):	14 kOhm	
Antenna connector:	BNC	
Controls:	Input Level, Power, Up, Down, Pad, Set, Volume Headphone	
Indicators:	LC display	
Power supply:	12 - 18 V DC	
Width:	200 mm	
Height:	44 mm	
Depth:	96 mm	
Weight:	1,2 kg	
Accessories (included):	User manual, batteries, power supply, antenna, headphones, rack mount kit	

#### **MANUFACTURER'S DECLARATIONS**

#### **MANUFACTURER'S WARRANTY & LIMITATIONS OF LIABILITY**

You can find our current warranty conditions and limitations of liability at: https://cdn-shop.adamhall.com/media/pdf/MANUFACTU-RERS-DECLARATIONS LD SYSTEMS.pdf To request warranty service for a product, please contact Adam Hall GmbH, Adam-Hall-Str. 1. 61267 Neu Anspach / Email: Info@adamhall.com / +49 (0)6081 / 9419-0.

CORRECT DISPOSAL OF THIS PRODUCT (valid in the European countries with a differentiated waste collection system)

This symbol on the product, or on its documents indicates that the device may not be treated as household waste. This is to avoid environmental damage or personal injury due to uncontrolled waste disposal. Please dispose of this product separately from other waste and have it recycled to promote sustainable economic activity. Household users should contact either the retailer where they purchased this product, or their local government office, for details on where and how they can recycle this item in an environmentally friendly manner. Business users should contact their supplier and check the terms and conditions of the purchase contract. This product should not be mixed with other commercial waste for disposal.