Midea

Robot Vacuum Cleaner

USER MANUAL

V12

Warning notices: Before using this product, please read this manual carefully and keep it for future reference.
The design and specifications are subject to change without prior notice for product improvement.
Consult with your dealer or manufacturer for details.
The diagram above is just for reference. Please take the appearance of the actual product as the standard.

THANK YOU LETTER

Thank you for choosing Midea! Before using your new Midea product, please read this manual thoroughly to ensure that you know how to operate the features and functions that your new appliance offers in a safe way.

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SAFETY INSTRUCTIONS

Warning for the machine

1. This appliance can be used by children aged from 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved.
   Children shall not play with the appliance.
   Cleaning and user maintenance shall not be made by children without supervision.
2. Plug must be removed from the socket-outlet before cleaning or maintaining the appliance. Switch off before cleaning or maintaining the appliance.
3. If the supply cord is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid a hazard.
4. WARNING: For the purposes of recharging the battery, only use the detachable supply unit provided with this appliance.
   Use only with WS2301 supply unit.
5. This appliance contains batteries that are only replaceable by skilled persons.
6. Do not bring the smart robot close to heat source, radiation or burning cigarette butts. It is strictly forbidden to vacuum the following objects:
   1) All liquids such as water and solvents;
   2) Lime, cement dust and other construction dust and garbage;
   3) Heat generating objects, such as unextinguished carbon butts, cigarette butts;
   4) Sharp fragments, such as glass, etc.;
   5) Flammable and explosive items, such as gasoline and alcohol products.
7. Before using, please remove all fragile items from the ground (such as glasses, lamps, etc.), and items that may be tangled with the side brush, Roller brush and drive wheels(such as wires, curtains and other easily-entangled materials).
8. Please pay attention to your hair and avoid entanglement on wheels or roller brushes when using, cleaning and maintaining the robot.
9. Do not use this product at an altitude of more than 2000m.

SAFETY INSTRUCTIONS

10.Correct Disposal of this product.

This marking indicates that this product should not be disposed of with other household wastes throughout the EU. To prevent possible harm to the environment or human health from uncontrolled waste disposal, recycle it responsibly to promote the sustainable reuse of material resources. To return your used device, please use the return and collection systems or contact the retailer where the product was purchased. They can take this product for environmentally safe recycling.

11. Warranty Information

The manufacturer provides warranty in accordance with the legislation of the customer's own country of residence, with a minimum of 1 year (Germany: 2 years), starting from the date on which the appliance is sold to the end user. The warranty only covers defects in material or workmanship.
The repairs under warranty may only be carried out by an authorized service centre. When making a claim under warranty, the original bill of purchase (with purchase date) must be submitted.The warranty will not apply in cases of:
- Normal wear and tear
- Incorrect use, e.g. overloading of the appliance, use of non-approved accessories
- Use of force, damage caused by external influences
- Damage caused by non-observance of the user
manual, e.g. connection to an unsuitable mains supply or non-compliance with the installation instructions
- Partially or completely dismantled appliances

12.Wireless network: 2400-2483.5MHz, MAX POWER:20dBm.
BLUETOOTH MAX POWER:10dBm
To satisfy RF exposure requirements, a separation distance of 20 cm or more should be maintained between the antenna of this device and persons during device operation. To ensure compliance, operations at closer than this distance is not recommended.

13.CLASS 1 LASER PRODUCT
INVISIBLE LASER RADIATION
(Note: Laser classified to Class 1 according to IEC 60825-1:2014)

SAFETY INSTRUCTIONS

Warning for docking station

1. "IMPORTANT SAFETY INSTRUCTIONS – SAVE THESE INSTRUCTIONS" and "DANGER – TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, CAREFULLY FOLLOW THESE INSTRUCTIONS".
2. This appliance can be used by children aged from 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved.
   Children shall not play with the appliance.
   Cleaning and user maintenance shall not be made by children without supervision.
3. Plug must be removed from the socket-outlet before cleaning or maintaining the appliance.
   Switch off before cleaning or maintaining the appliance.
4. If the supply cord is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid a hazard.
5. Docking base is only applicable to the product V12. (Battery pack type: Li-ion, DC 14.4 V, 5200 mAh)
   The Docking base will automatically start charging after Robot Vacuum Cleaner returned to the base.
6. Warning: The battery charger (Docking station) is not intended to charge non-rechargeable batteries.

SAFETY INSTRUCTIONS

Warning for battery

1. The product must be powered off before removing the battery.
2. Please note that do not disassemble the battery by yourself.
3. If you need to replace it, please contact the after-sales service center.
4. Please dispose of used battery according to local laws and regulations
5. Do not dismantle, open or shred the battery.
6. Do not expose batteries to heat or fire. Avoid storage in direct sunlight.
7. Do not short-circuit a battery.
8. Do not store batteries haphazardly in a box or drawer where they may short-circuit each other or be short-circuited by other metal objects.
9. Do not subject batteries to mechanical shock.
10. In the event of a leaking, do not allow the liquid to come in contact with the skin or eyes. If contact has been made, wash the affected area with copious amounts of water and seek medical advice.
11. Do not use any charger other than that specifically provided for use with the equipment.
12. Do not use any battery which is not designed for use with the equipment.
13. Do not mix different manufacture, capacity, size or type within a device.
14. Keep batteries out of the reach of children.
15. Seek medical advice immediately if the battery has been swallowed.
16. Keep batteries clean and dry.
17. Do not leave a battery on prolonged charge when not in use.
18. After extended periods of storage, it may be necessary to charge and discharge the batteries several times to obtain maximum performance.
19. The batteries give their best performance when they are operated at normal room temperature (20 °C ± 5 °C).
20. Retain the original product literature for future reference.
21. The battery may be irreversibly damaged if the battery is in low power for a long time. It is recommended that the battery retain sufficient power before storage.

SAFETY INSTRUCTIONS

	[symbol IEC 60417-5957 (2004-12)]	for indoor use only
	[symbol ISO 7000-0790 (2004-01)]	read operator's manual
	[symbol IEC 60417-5031 (2002-10)]	direct current
x	time-lag miniature fuse-link where X is the symbol for the time/current characteristic as given in IEC 60127	
	[symbol IEC 60417-5032 (2002-10)]	alternating current
	[symbol IEC 60417-5172 (2003-02)]	class II equipment

TECHNICAL DATA

1. Product Model: V12
2. Host Charging Voltage: 19V⎓
3. Host Rated Voltage: 14.4V⎓
4. Host Rated Power: 65W
5. Docking Station Model: WS2301
6. Docking Station Input: 220-240V~, 50-60Hz
7. Charging Power: 39.5W
8. Charging and Hot Drying: 145W
9. Charging and Cold Drying: 43W
10. Dust collection mode: 1000W
11. Docking Station Output: 19V⎓, 2A
12. Battery Model: BP14452G
13. Battery Rated Voltage: 14.4V⎓
14. Battery Capacity: 5200mAh 74.88Wh
15. Charging Limit Voltage: 16.8V⎓

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MIDEA SCOTT & ENGLISH ELECTRONICS SDN BHD
16, Jalan Chan Sow Lin, 55200 Kuala Lumpur.

Note: You can also view the instructions on the app.
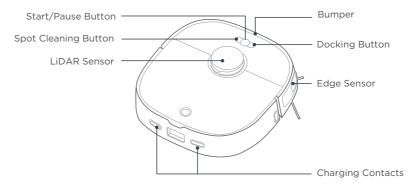
IN THE BOX

Components in Package

Robot Vacuum

350mm

108mm

342.5mm

Self-Cleaning Base

412mm

567mm

379mm

Side Brush x2

Mopping Holder x2

Mopping Cloth x2

Cleaning Brush

Instruction Manual

Dust Bag
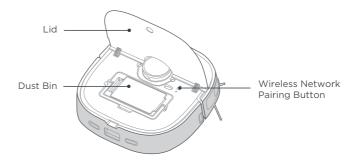
IN THE BOX

Introduction to Parts of Robot Vacuum
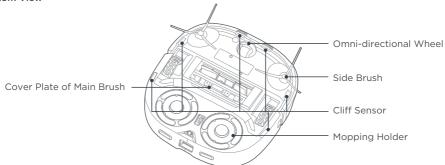
Main View (with lid closed)

Start/Pause Button

Spot Cleaning Button

LiDAR Sensor

Bumper

Docking Button

Edge Sensor

Charging Contacts

Main View (with lid open)

Lid

Dust Bin

Wireless Network
Pairing Button

Bottom View

Cover Plate of Main Brush

Omni-directional Wheel

Side Brush

Cliff Sensor

Mopping Holder
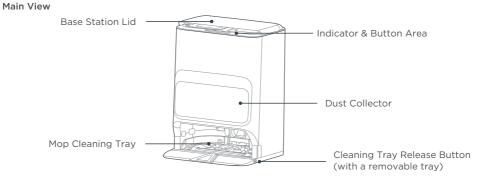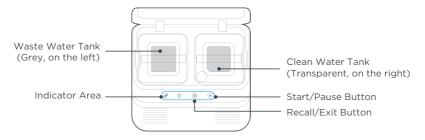
IN THE BOX
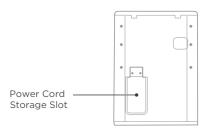
Introduction to Self-Cleaning Base

Main View

Base Station Lid

Indicator & Button Area

Dust Collector

Mop Cleaning Tray

Cleaning Tray Release Button
(with a removable tray)

Top View

Waste Water Tank
(Grey, on the left)

Clean Water Tank
(Transparent, on the right)

Indicator Area

Start/Pause Button

Recall/Exit Button

Back View

Inlet

Power Cord
Storage Slot

Charging
Contacts

PREPARATIONS BEFORE USE

Placement of the Self-Cleaning Base

1. Place the self-cleaning base on a hard surface against a wall, with clear space of at least 0.5 meters on the left and right sides and 1.3 meters in front.
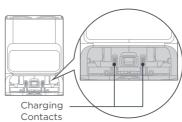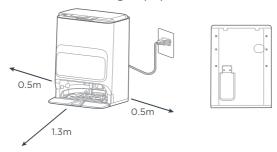
2. Plug the power cord into an electrical outlet. Then wind the excess cable around the power cord storage slot on the back to avoid affecting the proper function of the robot vacuum.

0.5m

0.5m

1.3m
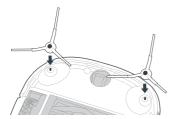
Notes

1. Do not expose the base under direct sunlight.
2. Do not cover the signal transmission area of the self-cleaning base with objects such as stickers.
3. Do not place the base on floors with carpet or other soft coverings.
4. Please keep the charging area dry.

Installation of Side Brush to Robot Vacuum

1. Turn the main unit over. Attach the side brush to its color-matched post and press down until they fit into place.

2. To remove the side brush, grab the rubber-coated legs of the side brush with both hands (be careful not to pull the hair bundle vigorously) and pull it out.

PREPARATIONS BEFORE USE

Installation of the Mopping Cloth

1. As shown in the figure, align the mopping cloth centrally with the mopping holder and apply it evenly.
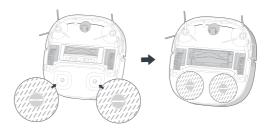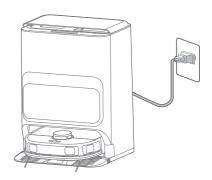
2. Press the mopping module into the robot to complete the installation.

Power on & Charging

Press and hold " ⏻ " button to power on the robot vacuum. After the power indicator turns on, put the robot vacuum into the self-cleaning base for charging, as shown in the figure. To ensure that the robot vacuum is always ready for use, keep it in the charging state.
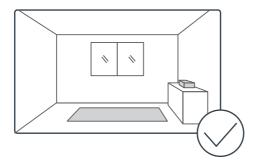
Notes

1. If you manually put the robot vacuum into the base, ensure that the side with the charging contacts is placed inside.
2. Ensure that the robot vacuum is fully charged before first use.
3. After the robot vacuum is manually put into the base, the robot vacuum will automatically power on and pair with the base.
4. If the " ⬭ " indicator light shows steady-on white light, it means the robot is successfully connected to the self-cleaning base. If the light flashes quickly, see "Common Problems".

PREPARATIONS BEFORE USE

Environmental Requirements

Before using the robot vacuum, please make sure the area to be cleaned is free from items that may be tangled/stuck with the robot vacuum (such as wires, hard objects, iron nails, glasses and other sharp fragments), and items that may be dragged or knocked down by the robot vacuum (such as valuable objects, fragile objects and dangerous objects likely to fall). This helps ensure that the robot vacuum does not cause personal injury or property damage.

Preparations of the Water Tank

Notes
Do not add hot water or unauthorized detergent into the tank to prevent clogging.

1. To add clean water, remove the clean water tank on the right, open the lid, and fill the tank with clean water to the MAX mark. Then reinstall the tank.

2. To empty the dirty water, remove the Waste water tank on the left, open the lid, and pour out the water.

PREPARATIONS BEFORE USE

Setting Up App

Notes
1. The app supports iOS versions 13.0 and above and Android versions 8.0 and above. The app is not available for use with tablets.   2. This model does not support a WEP encrypted router.   3. The home wireless network name and password must contain only letters, numbers and standard symbols.   4. The network accessing configuration of the robot requires a wireless network of 2.4GHz frequency range.   5. The robot must be connected to wireless network to enable controlling the robot using the app. Once you have set up the app and connected the robot to wireless network, the app can be used to control the robot in wireless network/2G/3G/4G/5G network environment.   6. If your home wireless network password is changed or the router is replaced, the robot will show as offline in the app; you will need to reconnect the robot to wireless network following the wireless network connection instructions.

Download the App
Scan the following QR code or search for SmartHome* to download the App. Follow the instructions in the app to create a new account or login.

Connect the Device
1. Connect your robot to the network that you plan to use for operating the robot. Make sure the robot is placed within good wireless network coverage.

2. After assembling and powering on the robot, open the robot cover. Press and hold the wireless network pairing button for 3 seconds until you hear a beep. The network indicator light should start flashing. Follow instructions in app for next steps.

Add Device
Click "+" or "Add Device" in the App to add the device. Choose V12.

PREPARATIONS BEFORE USE

Using SmartHome App

Notes
The content of the App is subject to the upgraded version of the App. The interface is only for reference, and will be updated continuously.

Friendly reminder:

As software and products undergo continuous upgrades, the interfaces of other versions may differ from the current one.
Please refer to the functional interface of the latest version.

App function list	
Basic functions	Whole house cleaning
	Room cleaning
	Zoned cleaning
	Return to charging
Cleaning preferences	Suction power
	Mop cleaning frequency
Cleaning mode	Sweeping only
	Mopping only
	Sweeping-mopping integration
	Sweeping before mopping
Base station operation	Washing mop
	Drying mop
Map function	Self-defined no-go zone
	Edit room
	Map album

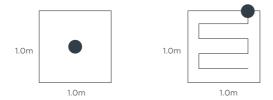| App function list	
Carpet avoidance function	Adaptive carpet avoidance
	Avoid carpet
	Do not avoid carpet
More function settings	Cleaning records
	Scheduled cleaning
	Voice setting
	Robot setting
	Base station setting
	Consumable status
	Child lock
	Call the robot
	Manual control

GETTING STARTED

Notes
1. Make sure that the mopping cloths are installed properly before use, otherwise the robot will not start normally. 2. This product is intended for indoor use only. Do not use it outdoors. 3. Do not submerge the robot vacuum in water. Doing so may damage the equipment, causing a short circuit or current leakage.

Operation	Button		
	⏻	⌂	▢
Briefly Press	Start/resume/pause	Return to the base	Start spot cleaning
Press and hold	Shut down	/	Enable/Disable child lock

Start / Pause / Resume

Briefly Press " ⏻ " to start/pause/resume cleaning or use your App to control.

Spot Cleaning

Press " ▢ " briefly to start spot cleaning. The robot vacuum will clean a square-shaped area (1.0m x 1.0m) with the current location as the center.

1.0m

1.0m

1.0m

1.0m

Recharge

Press " ⌂ " briefly. The robot vacuum will move from the current location to the self-cleaning base for charging.

GETTING STARTED

Emptying

After cleaning, the robot will return to the self-cleaning base and automatically begin self-emptying. More self-emptying settings can be enabled in the app, such as manual emptying. Avoid manual emptying frequently.

Washing the Mopping Cloth

The robot vacuum returns to the self-cleaning base to wash the mopping cloth after mopping an area of 10 square meters. You can manually specify the washing frequency in the app as required.

After completing a mopping task, the robot vacuum will return to the self-cleaning base and automatically wash the mopping cloth. (The washing cycle takes some time to complete.)

Mop Drying

After the robot finishes mop washing, it will automatically initiate mop drying process (hot air drying, by default). You can modify the functions in the app.

Notes
1. Do not remove the robot vacuum from the self-cleaning base when it is washing the mopping cloth. Doing so may damage the water refilling pipe. 2. Do not move the self-cleaning base after the robot vacuum starts cleaning.

Status Indicators of Robot Vacuum

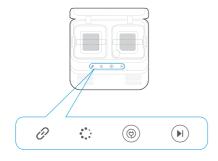| Indicator Light	Status	Actions
Steady-on white light	Standby/Sweeping/Docking	/
Flashing white light	Charging	/
Flashing red light	An error occurs	Refer to "Common Problems"
Steady-on white light	Docking	/
Steady-on red light	Low battery and docking	/
Steady-on white light	Zone cleaning--vacuuming	/
Steady-on blue light	Zone cleaning--mopping	/

GETTING STARTED

Self-Cleaning Base Buttons

Operation	Button	
	⏭	⊛
Briefly Press	Start/resume/pause	Recall the robot vacuum to the base/Enable the robot vacuum to exit the base
Press and hold	Stop a cleaning task	/

Status Indicators of Self-Cleaning Base

Indicator Light	Pattern	Status
⚙	Flashing white	Robot is charging
	Steady-on white light	Robot is cleaning or docking
	Steady-on blue light	Robot is going back to wash the mops
	Steady-on red light	Battery level < 20%, robot is going to recharge
	Flashing red	There is an error. See "Common Problems".
🔗	Steady-on white light	Robot is successfully connected to the self-cleaning base
	Flashing white softly	Robot is connecting to the self-cleaning base
	Flashing white quickly	Robot is disconnected from the self-clean ing base

MAINTENANCE

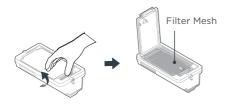## Maintenance of Dust Bin (Clean as needed)

1. Open the upper lid of the robot vacuum. Then, lift the handle of the dust bin and pull the bin out.

2. Press the Opening button on the side of the dust bin to open it. Then, dispose of the dust.

3. Press the buckle on the cover plate of the dust bin to open the filter mesh cover.

4. Pinch the filter mesh and lift it up. You can wash the filter mesh in water, but make sure it is dry before putting it back in the dust bin. To ensure optimal filtering, it is recommended to clean and replace the filter mesh regularly.

Filter Mesh

Dust Bag Replacement

1. Remove the dust collector cover.
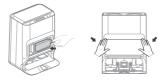
3. You can use a soft, dry cloth to wipe and clean the dust collector.

2. Pull the used disposable dust bag out of the dust collector.

4. Place a new dust bag, sliding the paper card into the rails. Re-install the dust collector cover.

MAINTENANCE
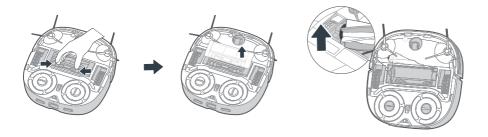
How to use the cleaning brush:
① Cut the hair entangled on the main brush body with the blade.
② Brush off the cut hair with the brush.

Blade

Brush
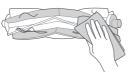
Maintenance of Main Brush (Weekly cleaning is recommended)
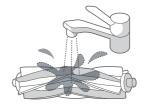
1. Press and hold the left and right release buttons on the cover plate of the main brush and lift out the cover plate.

2. Lift the red side of the main brush to take it out.

3. Cut any hairs wrapped around the main brush by using the cleaning brush in the accessories box. Then, clean the main brush and its cover plate by using the cleaning brush or a soft cloth.

4. Wash the main brush with water and dry it. After cleaning, install the main brush and then the cover plate into the robot vacuum.

MAINTENANCE

Cleaning of Side Brush (Weekly cleaning is recommended)

Pull out the side brush. Remove dust on the side brush.

Cleaning of Driving Wheel (Weekly cleaning is recommended)

Rotate the driving wheel back and forth to remove debris and clean it with the cleaning brush in the accessories box or a soft cloth.

MAINTENANCE

Cleaning of the Base Station

1. Press and hold the left and right release buttons on the bottom of the self-cleaning base and take out the mop cleaning tray.

2. Take out the small tray and rinse both parts with clean water. Make sure the cleaning tray is completely dry before placing it back.

3. Put the mop cleaning tray back into the base.

TROUBLESHOOTING

Faults	Possible Causes	Actions
The robot vacuum cannot be recharged	The robot vacuum is not in contact with the charging contacts.	Place the robot vacuum in front of the self-cleaning base and press the docking button.
The robot vacuum cannot return for charging	The self-cleaning base is placed improperly.	Place the self-cleaning base on a level surface that is free of obstacles.
The robot vacuum is trapped	The robot vacuum is entangled/stuck by objects (such as cords)on the floor.	Please put away the scattered cords and objects on the floor.
	The side brush/main brush is stuck so that the robot vacuum cannot move normally.	Remove the objects that cause the main brush/side brush to be stuck, place the robot vacuum on flat ground, and power on the robot vacuum the docking button.
	The robot vacuum is stuck by obstacles.	Action 1: Remove the obstacles in time. Action 2: Set restricted zones in the app.
The cleaning task has not been completed, but the robot vacuum returns for charging or stops working	The robot vacuum is out of power.	Let the robot vacuum return for charging.
The robot vacuum fails to clean as scheduled	The cleaning schedule is cancelled in the app.	Reset the cleaning schedule in the app.
	The robot vacuum is in Do Not Disturb mode.	Disable Do Not Disturb or adjust the Do Not Disturb time period.
The robot vacuum moves backward	The protective cover of navigation module is stuck.	Gently tap the protective cover and remove the small objects.
	There is an obstacle ahead.	Remove the obstacle in time.
	The front bumper is stuck.	Gently tap the front bumper to remove foreign matters.
	There is dust accumulated in the cliff sensors.	Clean the dust accumulated on the surface of cliff sensor.

TROUBLESHOOTING

Faults	Possible Causes	Actions
The robot vacuum has no sound	· The sound is set to mute or low volume. · The robot vacuum is in "Do Not Disturb Mode".	· Turn up the volume. · Turn off "Do Not Disturb Mode"
The app operation response delays	Please check whether the following problems occur: · The network is busy. · wireless network signal reception of the phone is poor. · The network bandwidth is insufficient.	Please try the following actions: · Restart the router and reduce the number of users accessed. · Check the phone settings. · Increase the network bandwidth.
The app shows that the connection is abnormal and requires reconnection	The robot vacuum is disconnected from the self-cleaning base.	Press " ⊙ " and " ◎ " on the self-cleaning base simultaneously for 5 seconds. The " 🔗 " light will flash when the robot vacuum is connecting to the self-cleaning base. When the " 🔗 " connection succeeds, you will hear a beep sound and the light on the self-cleaning base will stay on.
The APP shows that the connection is disconnected	Please check whether the following problems occur: · The phone is not connected to the network properly. · The router is not working properly. · The robot vacuum is not powered on. · The wireless network info of the device is cleared. · The wireless network password or network has been changed.	Please try the following actions: · Reconnect the phone network. · Restart the router. · Turn on the power switch of the robot vacuum. · Add new appliance in the APP. · After the system is started, press the wireless network pairing button for 3 seconds. Release the button until you hear a beep sound. · Add the device again according to instructions on the phone.
After the robot vacuum returns to the self-cleaning base, the mopping cloth is not washed automatically	· The clean water tank is empty. · The used water tank is full.	· Take out the clean water tank and refill the water. · Take out the used water tank and empty the water.
Dust leaks from the robot vacuum during operation	The inlet of the dust bin is stuck by small objects.	Remove the small objects on the inlet.

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All the described functions and instructions were up to date at the time of printing this manual. However, the actual product may vary due to improved functions and designs.

DISPOSAL AND RECYCLING

Important instructions for environment

Compliance with the WEEE Directive and Disposing of the Waster Product:
This product complies with EU WEEE Directive (2012/19/EU). This product bears a classification symbol for waster electrical and electronic equipment (WEEE).

This symbol indicates that this product shall not be disposed with other household wastes at the end of its service life. Used device must be returned to official collection point for recycling of electrical electronic devices. To find these collection systems please contact to your local authorities or retailer where the product was purchased. Each household performs important role in recovering and recycling of old appliance. Appropriate disposal of used appliance helps prevent potential negative consequences for the environment and human health.

Compliance with RoHS Directive

The product you have purchased complies with EU RoHS Directive (2011/65/EU). It does not contain harmful and prohibited materials specified in the Directive.

Package information

Packaging materials of the product are manufactured from recyclable materials in accordance with our National Environment Regulations. Do not dispose of the packaging materials together with the domestic or other wastes. Take them to the packaging material collection points designated by the local authorities.

DATA PROTECTION NOTICE

For the provision of the services agreed with the customer,

we agree to comply without restriction with all stipulations of applicable data protection law, in line with agreed countries within which services to the customer will be delivered, as well as, where applicable, the EU General Data Protection Regulation (GDPR).

Generally, our data processing is to fulfil our obligation under contract with you and for product safety reasons, to safeguard your rights in connection with warranty and product registration questions. In some cases, but only if appropriate data protection is ensured, personal data might be transferred to recipients located outside of the European Economic Area.

Further information are provided on request. You can contact our Data Protection Officer via MideaDPO@midea.com. To exercise your rights such as right to object your personal date being processed for direct marketing purposes, please contact us via MideaDPO@midea.com. To find further information, please follow the QR Code.

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