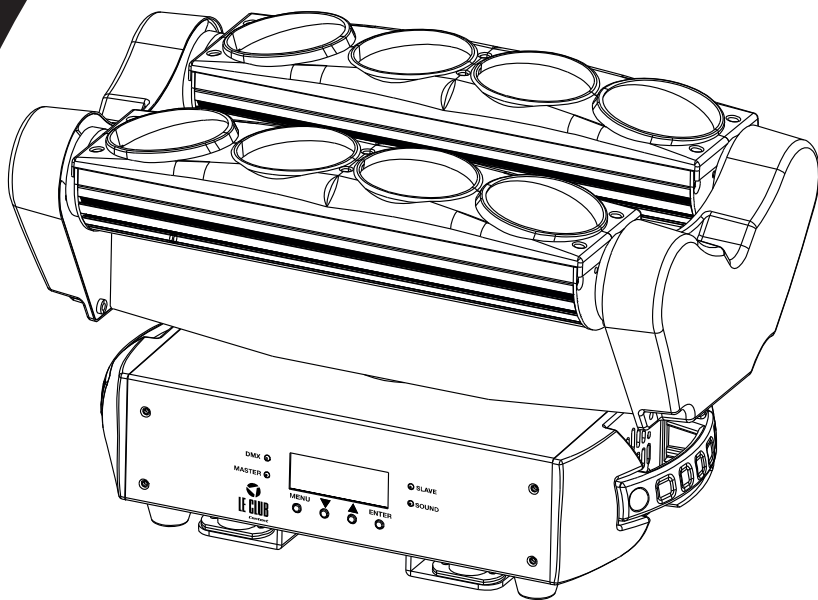




2X4 WHITE BEAMS ANIMATION PROJECTOR WITH NON-STOP PAN ROTATION



HeliWave-8x10WH

USER GUIDE

10293 - 1 January 2015 version

1 - Safety information

Important safety information



This unit is intended for indoor use only. Do not use it in a wet, or extremely cold/hot locations. Failure to follow these safety instructions could result in fire, electric shock, injury, or damage to this product or other property.



Any maintenance procedure must be performed by a CONTEST authorised technical service. Basic cleaning operations must thoroughly follow our safety instructions.



This product contains non-isolated electrical components. Do not undertake any maintenance operation when it is switched on as it may result in electric shock.

Symbols used



This symbol signals an important safety precaution.



The WARNING symbol signals a risk to the user's physical integrity. The product may also be damaged.



The CAUTION symbol signals a risk of product deterioration.

Instructions and recommendations

1 - Please read carefully :

We strongly recommend to read carefully and understand the safety instructions before attempting to operate this unit.

2 - Please keep this manual :

We strongly recommend to keep this manual with the unit for future reference.

3 - Operate carefully this product :

We strongly recommend to take into consideration every safety instruction.

4 - Follow the instructions:

Please carefully follow each safety instruction to avoid any physical harm or property damage.

5 - Avoid water and wet locations :

Do not use this product in rain, or near washbasins or other wet locations.

6 - Installation :

We strongly encourage you to only use a fixation system or support recommended by the manufacturer or supplied with this product. Carefully follow the installation instructions and use the adequate tools. Always ensure this unit is firmly fixed to avoid vibration and slipping while operating as it may result in physical injury.

7 - Ceiling or wall installation :

Please contact your local dealer before attempting any ceiling or wall installation.

8 - Ventilation :

The cooling vents ensure a safe use of this product, and avoid any overheating risk. Do not obstruct or cover these vents as it may result in overheating and potential physical injury or product damage. This product should never be operated in a closed non-ventilated area such as a flight case or a rack, unless cooling vents are provided for the purpose .

9 - Heat exposure :

Sustained contact or proximity with warm surfaces may cause overheating and product damages. Please keep this product away from any heat source such as a heaters, amplifiers, hot plates, etc..

10 - Electric power supply :

This product can only be operated according to a very specific voltage. These information are specified on the label located at the rear of the product.

11 - Power cords protection:

Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at lugs, convenience receptacles and the point where they exit from the fixture.

CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN

WARNING : This unit contains no user-serviceable parts. Do not open the housing or attempt any maintenance by yourself. In the unlikely even your unit may require service, please contact your nearest dealer.

In order to avoid any electrical malfunction, please do not use any multi-socket, power cord extension or connecting system without making sure they are perfectly isolated and present no defect.

Warning
 This product is equipped with Class 2 LEDs.
 Please avoid looking directly at the beam as it may cause severe eye injuries.

Recycling your device

- AS HITMUSIC is really involved in the environmental cause, we only commercialise clean, ROHS compliant products.
- When this product reaches its end of life, take it to a collection point designated by local authorities. The separate collection and recycling of your product at the time of disposal will help conserve natural resources and ensure that it is recycled in a manner that protects human health and the environment.

12 - Cleaning precautions :

Unplug the product before attempting any cleaning operation. This product should be cleaned only with accessories recommended by the manufacturer. Use a damp cloth to clean the surface. Do not wash this product.

13 - Long periods of non use :

Disconnect the unit's main power during long periods of non use.

14 - Liquids or objects penetration :

Do not let any object penetrate this product as it may result in electric shock or fire. Never spill any liquid on this product as it may infiltrate the electronic components and result in electric shock or fire.

15 - This product should be serviced when :

Please contact the qualified service personnel if :

- The power cord or the plug has been damaged.
- Objects have fallen or liquid has been spilled into the appliance.
- The appliance has been exposed to rain or water.
- The product does not appear to operate normally.
- The product has been damaged.

16 - Inspection/maintenance :

Please do not attempt any inspection or maintenance by yourself. Refer all servicing to qualified personnel.

17 - Operating environment :

Ambient temperature and humidity: +5 - +35°C, relative humidity must be less than 85% (when cooling vents are not obstructed).

Do not operate this product in a non-ventilated, very humid or warm place.

2 - Technical specifications

Light sources

- › 8x10W Dazzling white LEDs - 50 000 hours (expected)
- › 6° aperture angle (individual lenses)
- › Low temperature, low power consumption, can be operated non-stop for many hours

Effects

- › Adjustable strobe
- › Adjustable pulse effect
- › Adjustable electronic dimmer from 0 - 100%

Control

- › Standard DMX-512
- › 1 / 10 / 14 / 18 DMX channels
- › Simplified settings (Compatible EASY-2)
- › Built-in music-sensitive program via the internal microphone
- › Simplified control of several projectors simultaneously
- › LCD drop-down menu to choose and assign the different modes

Movements

- › Each lighting bar rotates individually
- › Bar rotation on a 145° angle
- › Non-stop PAN rotation

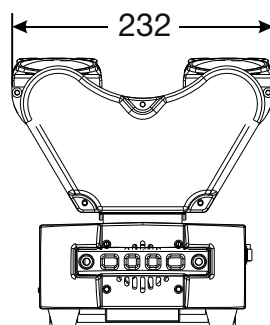
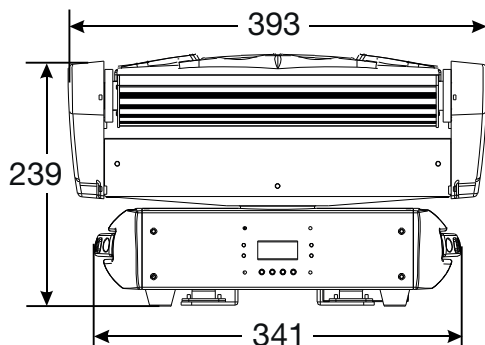
Package contents :

The package must include the following articles:

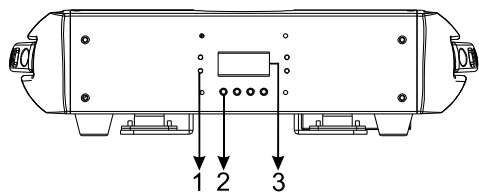
- › The projector
- › The user guide
- › 1x2-pole + earth IEC power cord
- › Two suspension brackets

Additional characteristics

- › Holding brackets with Omega holders
- › Power consumption : 114W max.
- › Power supply : 100/230V - 50/60Hz, AC
- › Dimensions : 393 x 232 x 239 mm
- › Net weight : 9.6 Kg



3 - Rear panel description



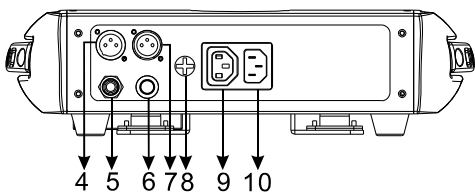
- 1
- Indicator LEDs**
These 4 LEDs indicate the device status.

LED	Indication
DMX	Is ON when the DMX mode is activated
MASTER	is ON when the Master mode is activated
SLAVE	is ON when the Slave mode is activated
SOUND	Flashes when the Sound-sensitive mode is activated

- 2
- Menu settings**
MENU
Press MENU to access and select the functions.
ENTER
Press ENTER to access a sub-menu and or save changes selected via the UP and DOWN buttons.
UP and DOWN
Press UP or DOWN to increase/decrease the adjustable values or browse the sub-menus.

- 3
- Display**
This intuitive display allows you to configure your projector. Please refer to the next paragraphs for more details about the projector configuration. The display backlight can be deactivated via the Back Light command menu.

- 4
- DMX input**
3-pin female XLR plug hardwired as follows :
 - Mass: 1
 - Negative signal: 2
 - Positive signal: 3



- 5
- Stereo Jack 6.35 input**
This input allows you to plug in the EASY-2 optional remote control.
Only the EASY-2 remote control should use this input, as plugging other devices may result in severe damages to the internal electrics.

- 6
- Microphone**
The microphone is used for the music-sensitive modes.

- 7
- DMX output**
3-pin male XLR plug hardwired as follows :
 - Mass: 1
 - Negative signal: 2
 - Positive signal: 3

- 8
- Fuse**
If need to replace the fuse, please make sure the new fuse has exactly the same characteristics as the original one.

- 9
- Power output**
Allows you to link two projectors together via a Male/Female IEC cord.

- 10
- Power input**
Allows you to connect the projector to an electrical outlet. Please make sure the voltage is in adequation with the product indications.

4 - Internal menu

Once turned on, the moving head will start a position initialisation for each motor. At this stage, the display indicates Le Club
CONTEST. Once the initialisation is over, the display will indicate HELIWAVE
8x10QC, you will then be able to access the menu using the MENU or ENTER buttons. If the menu remains inactive for 30 seconds, the display will indicate HELIWAVE
8x10QC and locks. To access the menu again, press ENTER.

MENU	UP and DOWN	Action	ENTER
DMX Address	001-512	DMX address selection Press ENTER and select the address with UP and DOWN	Saves changes
Channel Mode	1 Chan	1 channel : Select the pre-programmed sequences: 0 - 14	<div>Press ENTER and select a mode with UP and DOWN.</div> <div>Press and hold MENU for 3 seconds to enter DMX mode.</div> Saves changes
	10 Chan	10 channels: Non-stop Pan, Pan, Tilt1, Tilt2, Movement macros, Movement macros speed, Main dimmer, Strobe, Effect macros, Effect macros speed	
	14 Chan	14 channels: Non-stop Pan, Pan, Tilt1, Tilt2, Main dimmer, Strobe, Individual LED dimmers	
	18 Chan	18 channels: Non-stop Pan, Pan, Tilt1, Tilt2, Movement macros, Movement macros speed, Main dimmer, Strobe, Individual LED dimmers, Effect macros, Effect macros speed	
Show Mode	<div>Show 0</div> <div>⋮</div> <div>Show 14</div>	Shows are music-sensitive. Please make sure the music-sensitive mode is activated (Sound State menu). Show 0 starts a 1 - 14 show sequencing.	Saves changes
Slave Mode	<div>Master</div> <div>Slave 1</div> <div>Slave 2</div>	Modes Master , Slave1 and Slave 2 selection. Press ENTER and use the UP and DOWN buttons to select a mode. The Slave 2 mode reverses the PAN and TILT movements, and the sequences order in relation to the master projector.	Saves changes
Dimmer Speed	<div>Fast</div> <div>Smooth</div>	Adjusts the dimmer speed.	Saves changes
Sound State	<div>On</div> <div>Off</div>	Activates or deactivates the music-sensitive mode. Press ENTER and select On or Off with the UP and DOWN buttons.	Saves changes
Sound Sense	000-100	Adjusts the microphone sensitivity (for music-sensitive modes) . When the value is 000, the microphone is deactivated.	Saves changes
Black Out	<div>On</div> <div>Off</div>	Activates or deactivates the Black out mode. Press ENTER and select On or Off with the UP and DOWN buttons.	Saves changes
Back Light	<div>On</div> <div>Off</div>	Activates or deactivates the display backlight. Press ENTER and select On or Off with the UP and DOWN buttons. When Off, the display automatically turns off after a 30-second inactivity period.	Saves changes

MENU	UP and DOWN	Action	ENTER
Pan Inverse	No Yes	Activates the PAN movement reversion when the Slave and Show modes are activated, or in DMX mode. Press ENTER and select Yes or No with UP and DOWN.	Saves changes
Tilt1 Inverse	No Yes	Activates the bar 1 TILT movement reversion when the Slave mode is activated, or in DMX mode. Press ENTER and select Yes or No with UP and DOWN.	Saves changes
Tilt2 Inverse	No Yes	Activates the bar 2 TILT movement reversion when the Slave mode is activated, or in DMX mode. Press ENTER and select Yes or No with UP and DOWN.	Saves changes
Lamp Inverse	No Yes	Reverses the movement sequences. When No is selected, the sequences are executed from right to left, when Yes is selected, they are executed from left to right. Press ENTER and select Yes or No with UP and DOWN.	Saves changes
Auto Test	Test...	Tests each function.	Launches the test
Fixture Hours	XXX	Displays the total operating hours since the product was switched on for the first time.	No action
Software Version	A :UX.X Ab:UX.X	Displays the current software versions.	No action
Reset		Resets the device	Resets

4.2 - Initial position settings

After initialising, the moving head is automatically positioned on its original positions.
You can configure this positions as it pleases you.
Enter the DMX Address menu, then press ENTER for more than 3 seconds. You are now accessing the initial position settings.

Pan Offset	-127 +127	PAN movement initial position settings.
Tilt 1 Offset	-127 +127	TILT 1 movement initial position settings.
Tilt 2 Offset	-127 +127	TILT 2 movement initial position settings.

5 - The various DMX modes

Press and hold the MENU button to enter the DMX mode.

5.1 - 1-channel mode

Channel	Values	Action
1	000 - 007	Black-out
	008 - 015	Show 0 automatic
	016 - 031	Show 1 music-sensitive
	032 - 047	Show 2 music-sensitive
	048 - 063	Show 3 music-sensitive
	064 - 079	Show 4 music-sensitive
	080 - 095	Show 5 music-sensitive
	096 - 111	Show 6 music-sensitive
	112 - 127	Show 7 music-sensitive
	128 - 143	Show 8 music-sensitive
	144 - 159	Show 9 music-sensitive
	160 - 175	Show 10 music-sensitive
	176 - 191	Show 11 music-sensitive
	192 - 207	Show 12 music-sensitive
	208 - 223	Show 13 music-sensitive
	224 - 239	Show 14 music-sensitive
	240 - 255	Show 0 music-sensitive

5.2 - 10-channel mode

Channels	Values	Action
1	Non-stop PAN movements	
	000 - 007	No action
	008 - 132	Fast to slow clockwise rotation
	133 - 140	No rotation
	141 - 255	Slow to fast counterclockwise rotation
2	Non-stop PAN movements	
	000 - 255	PAN movements: 0° - 540°
3	Bar 1 TILT movements	
	000 - 255	TILT 1 movements: 60° - 150°
4	Bar 2 TILT movements	
	000 - 255	TILT 2 movements: 60° - 150°
5	Movement macros	
	000 - 007	No action
	008 - 023	Macro 1 : Show 1 without light effects
	024 - 039	Macro 2 : Show 2 without light effects
	040 - 055	Macro 3 : Show 3 without light effects
	056 - 071	Macro 4 : Show 4 without light effects
	072 - 087	Macro 5 : Show 5 without light effects
	088 - 103	Macro 6 : Show 6 without light effects
	104 - 119	Macro 7 : Show 7 without light effects
	120 - 135	Macro 8 : Show 8 without light effects
	136 - 151	Macro 9 : Show 9 without light effects
	152 - 167	Macro 10 : Show 10 without light effects
	168 - 183	Macro 11 : Show 11 without light effects
	184 - 199	Macro 12 : Show 12 without light effects
	200 - 215	Macro 13 : Show 14 without light effects
	216 - 231	Macro 14 : Show 14 without light effects
	232 - 255	Macro 15 : Show 0 without light effects

5.2 - 10-channel mode (continuation and end)

6	Movement macros speed	
	000 - 007	No action
	008 - 247	Increasing speed
	248 - 255	Music-sensitive mode
7	Main dimmer	
	000 - 255	Dimmer: 0 - 100%
8	Strobe	
	000 - 007	Black-out
	008 - 131	Stroboscope at increasing speed
	132 - 139	Open
	140 - 181	Pulse effect
	182 - 189	Open
	190 - 231	Reversed Pulse effect
	232 - 239	Open
	240 - 247	Random strobe
	248 - 255	Open
9	Macros d'effets	
	000 - 007	No action
	008 - 022	Macro 1 : Show 1 without movement
	023 - 037	Macro 2 : Show 2 without movement
	038 - 052	Macro 3 : Show 3 without movement
	053 - 067	Macro 4 : Show 4 without movement
	068 - 082	Macro 5 : Show 5 without movement
	083 - 097	Macro 6 : Show 6 without movement
	098 - 112	Macro 7 : Show 7 without movement
	113 - 127	Macro 8 : Show 8 without movement
	128 - 142	Macro 9 : Show 9 without movement
	143 - 157	Macro 10 : Show 10 without movement
	158 - 172	Macro 11 : Show 11 without movement
	173 - 187	Macro 12 : Show 12 without movement
	188 - 202	Macro 13 : Show 14 without movement
	203 - 217	Macro 14 : Show 14 without movement
	218 - 232	Macro 15 : Show 0 without movement
	233 - 255	Full power
10	Effect macros speed	
	000 - 007	No action
	008 - 247	Increasing speed
	248 - 255	Music-sensitive mode

5.3 - 14-channel mode

Channels	Values	Action
1	Non-stop PAN movement	
	000 - 007	No action
	008 - 132	Fast to slow clockwise rotation
	133 - 140	No rotation
	141 - 255	Slow to fast counterclockwise rotation
2	Non-stop PAN movement	
	000 - 255	Pan movement: 0° - 540 °
3	Bar 1 TILT movement	
	000 - 255	TILT 1 movement: 60° - 150°
4	Bar 2 TILT movement	
	000 - 255	TILT 2 movement: 60° - 150°

5.3 - 14-channel mode (continuation and end)

7	Main dimmer	
	000 - 255	Dimmer: 0 - 100%
8	Strobe	
	000 - 007	Black-out
	008 - 131	Stroboscope at increasing speed
	132 - 139	Open
	140 - 181	Pulse effect
	182 - 189	Open
	190 - 231	Reversed Pulse effect
	232 - 239	Open
	240 - 247	Random strobe
	248 - 255	Open
7 ~ 14	Dimmers for each LED	
	000 - 255	Dimmers: 0 - 100%

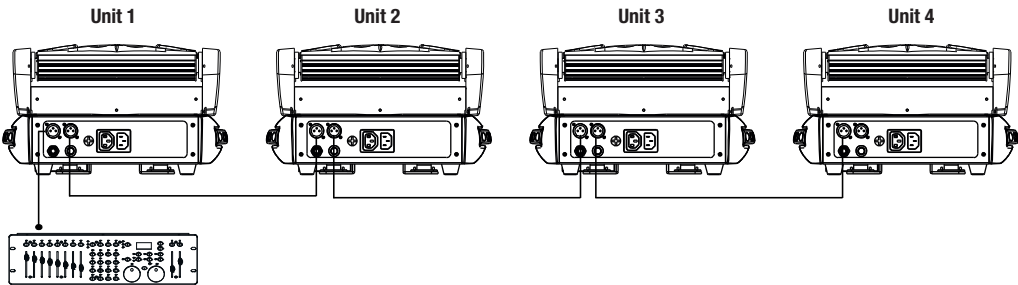
5.4 - 18-channel mode

Channels	Values	Action
1	Non-stop PAN movements	
	000 - 007	No action
	008 - 132	Fast to slow clockwise rotation
	133 - 140	No rotation
	141 - 255	Slow to fast counterclockwise rotation
2	Non-stop PAN movements	
	000 - 255	PAN movements: 0° - 540 °
3	Bar 1 TILT movements	
	000 - 255	TILT 1 movements: 60° - 150 °
4	Bar 2 TILT movements	
	000 - 255	TILT 2 movements: 60° - 150 °
5	Movement macros	
	000 - 007	No action
	008 - 023	Macro 1 : Show 1 without light effects
	024 - 039	Macro 2 : Show 2 without light effects
	040 - 055	Macro 3 : Show 3 without light effects
	056 - 071	Macro 4 : Show 4 without light effects
	072 - 087	Macro 5 : Show 5 without light effects
	088 - 103	Macro 6 : Show 6 without light effects
	104 - 119	Macro 7 : Show 7 without light effects
	120 - 135	Macro 8 : Show 8 without light effects
	136 - 151	Macro 9 : Show 9 without light effects
	152 - 167	Macro 10 : Show 10 without light effects
	168 - 183	Macro 11 : Show 11 without light effects
	184 - 199	Macro 12 : Show 12 without light effects
	200 - 215	Macro 13 : Show 14 without light effects
	216 - 231	Macro 14 : Show 14 without light effects
	232 - 255	Macro 15 : Show 0 without light effects
6	Movement macros speed	
	000 - 007	No action
	008 - 247	Increasing speed
	248 - 255	Music-sensitive mode

5.4 - 18-channel mode (continuation and end)

7	Main dimmer	
	000 - 255	Dimmer: 0 - 100%
8	Strobe	
	000 - 007	Black-out
	008 - 131	Stroboscope at increasing speed
	132 - 139	Open
	140 - 181	Pulse effect
	182 - 189	Open
	190 - 231	Reversed Pulse effect
	232 - 239	Open
	240 - 247	Random strobe
	248 - 255	Open
9 ~ 16	Dimmers for each LED	
	000 - 255	Dimmers: 0 - 100%
17	Effect macros	
	000 - 007	No action
	008 - 022	Macro 1 : Show 1 without movement
	023 - 037	Macro 2 : Show 2 without movement
	038 - 052	Macro 3 : Show 3 without movement
	053 - 067	Macro 4 : Show 4 without movement
	068 - 082	Macro 5 : Show 5 without movement
	083 - 097	Macro 6 : Show 6 without movement
	098 - 112	Macro 7 : Show 7 without movement
	113 - 127	Macro 8 : Show 8 without movement
	128 - 142	Macro 9 : Show 9 without movement
	143 - 157	Macro 10 : Show 10 without movement
	158 - 172	Macro 11 : Show 11 without movement
	173 - 187	Macro 12 : Show 12 without movement
	188 - 202	Macro 13 : Show 14 without movement
	203 - 217	Macro 14 : Show 14 without movement
	218 - 232	Macro 15 : Show 0 without movement
	233 - 255	Full power
18	Effect macros speed	
	000 - 007	No action
	008 - 247	Increasing speed
	248 - 255	Music-sensitive mode

6 - DMX cabling and addressing for each mode

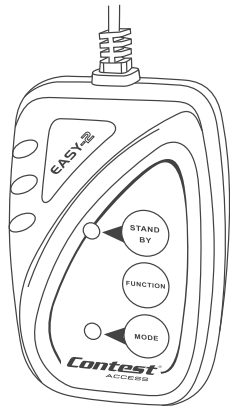


DMX mode	Unit 1 address	Unit 2 address	Unit 3 address	Unit 4 address
1 channel	1	2	3	4
10 channels	1	11	21	31
14 channels	1	15	29	43
18 channels	1	19	37	55

7 - How to use the EASY-2 remote control (optional)

The EASY-2 remote control is straightforward and easy to install. It is able to control several synchronised units with the Master/Slave mode. Plug your remote control into the Master projector Jack 6.35 chassis called «ONLY FOR REMOTE CONTROL», and daisy chain the additional units via the XLR plugs, as you would for a regular DMX cabling. This remote control gives you access to the following functions: black-out, strobe, and show selection.

Button	Action	
STAND - BY	Black-out	
FUNCTION	For each push :	Show selection: 0 - 14
	1 : Music-sensitive strobe 2 : Automatic strobe	
MODE	Random show (LED OFF)	Show (LED ON)



Because CONTEST® takes the utmost care in its products to make sure you only get the best possible quality, our products are subjects to modifications without prior notice. That is why technical specifications and the products physical configuration might differ from the illustrations.

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