

LEDJ

Spectra Flood Q40 Exterior Fixture

User Manual



Order code:

LEDJ284 - 40° Version

LEDJ284N - 15° Version

WARNING**FOR YOUR OWN SAFETY, PLEASE READ THIS USER MANUAL CAREFULLY BEFORE YOUR INITIAL START-UP!**

- Before your initial start-up, please make sure that there is no damage caused during transportation.
- Should there be any damage, consult your dealer and do not use the equipment.
- To maintain the equipment in good working condition and to ensure safe operation, it is necessary for the user to follow the safety instructions and warning notes written in this manual.
- Please note that damages caused by user modifications to this equipment are not subject to warranty.

**IMPORTANT:**

The manufacturer will not accept liability for any resulting damages caused by the non-observance of this manual or any unauthorised modification to the equipment.

- Never let the power cable come into contact with other cables. Handle the power cable and all mains voltage connections with particular caution!
- Never remove warning or informative labels from the unit.
- Do not open the equipment and do not modify the unit.
- Do not connect this equipment to a dimmer pack.
- Do not switch the equipment on and off in short intervals, as this will reduce the system's life.
- Do not expose to flammable sources, liquids or gases.
- Always disconnect the power from the mains when equipment is not in use or before cleaning! Only handle the power-cable by the plug. Never pull out the plug by pulling the power-cable.
- Make sure that the available mains supply voltage is between 100~240V AC, 50/60Hz.
- Make sure that the power cable is never crimped or damaged. Check the equipment and the power cable periodically.
- If the equipment is dropped or damaged, disconnect the mains power supply immediately and have a qualified engineer inspect the equipment before operating again.
- If your product fails to function correctly, stop use immediately. Pack the unit securely (preferably in the original packing material), and return it to your Pro Light dealer for service.
- Only use fuses of same type and rating.
- Repairs, servicing and power connection must only be carried out by a qualified technician. **THIS UNIT CONTAINS NO USER SERVICEABLE PARTS.**
- This lighting fixture is for professional use only - it is not designed for or suitable for household use. The product must be installed by a qualified technician in accordance with local territory regulations. The safety of the installation is the responsibility of the installer. The fixture presents risks of severe injury or death due to fire hazards, electric shock and falls.
- Warning! Risk Group 2 LED product according to EN 62471. Do not view the light output with optical instruments or any device that may concentrate the beam.
- **WARRANTY:** One year from date of purchase.

OPERATING DETERMINATIONS

If this equipment is operated in any other way, than those described in this manual, the product may suffer damage and the warranty becomes void. Incorrect operation may lead to danger e.g: short-circuit, burns and electric shocks etc.

Do not endanger your own safety and the safety of others!

Incorrect installation or use can cause serious damage to people and/or property.

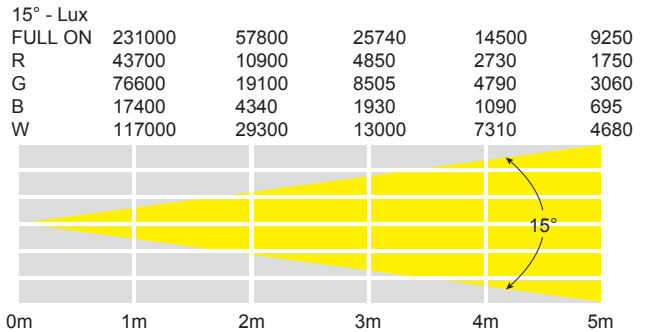
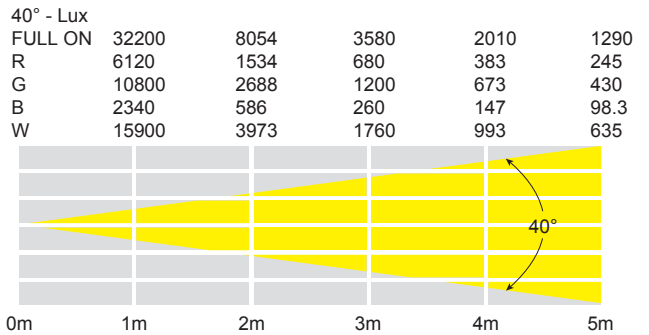
Spectra Flood Q40



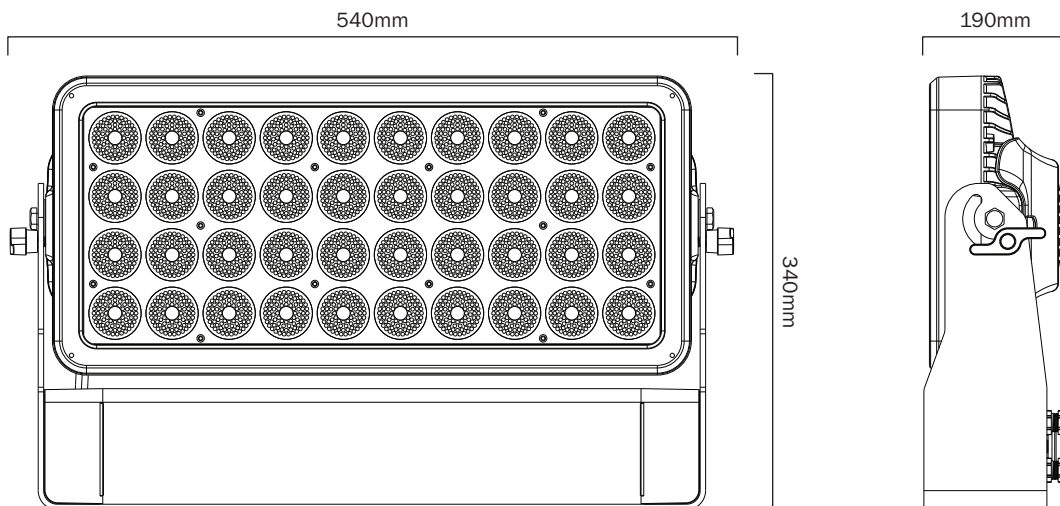
Equipped with 40 x 10W RGBW LEDs, the Q40 is suitable for illuminating large buildings, event spaces or stages. The unit utilises quad-colour LED technology to reproduce a wide colour spectrum from rich, primary colours through to subtle pastel tones across either a 40° or 15° beam with a flat, even field. Designed for rental and events, the Q40 features omega quick release brackets, PowerCON TRUE1 connectors for power input/output and also features both wired and wireless DMX by W-DMX Sweden. The slim profile of the fixture is ideally suited for loading into road trunks holding multiple units.

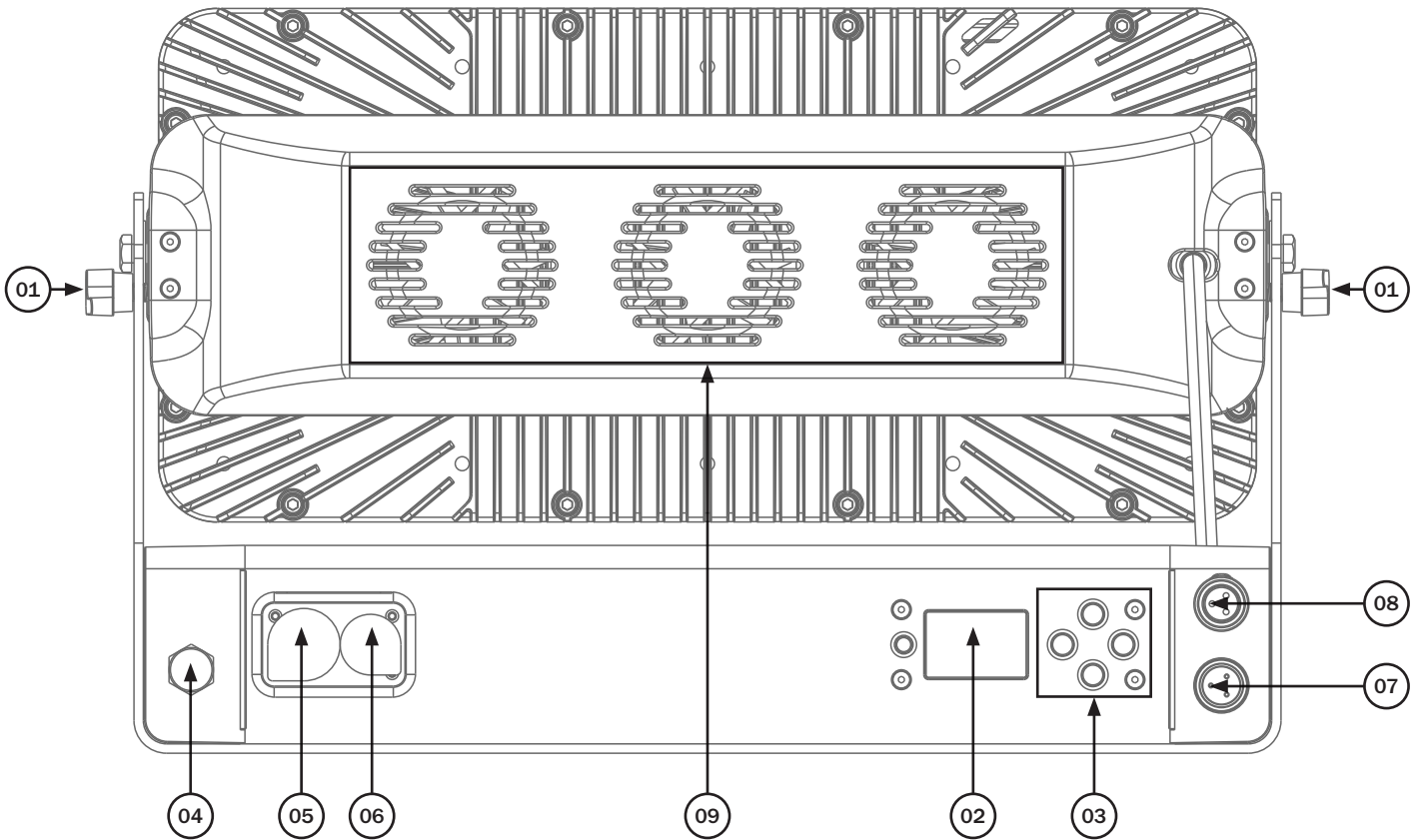


- 40 x 10W quad-colour LEDs (RGBW)
- Beam angle:
 - 40° - LEDJ284
 - 15° - LEDJ284N
- 40° - 8,054 Lux @ 2m (full on)
- 15° - 57,800 Lux @ 2m (full on)
- 3kHz refresh rate
- Wireless DMX control by W-DMX Sweden
- DMX channels: 4, 6 or 8 selectable
- Static colour, colour change, colour fade and master/slave modes
- 0 -100% dimming and variable strobe
- Supplied with installation bracket and quick release omega clamps
- 4 push button menu with LCD display
- PowerCON TRUE1 input/output
- IP rated 3-Pin XLR - Neutrik HD input/output
- Fan cooled



Specifications	Spectra Flood Q40
Power consumption	410W
Power supply	100~240V, 50/60Hz
Dimensions	340 x 540 x 190mm
Weight	12kg
Order codes	LEDJ284 - 40° Version LEDJ284N - 15° Version





01 - Bracket tightening knobs

02 - LCD display

03 - Function buttons

04 - Wireless DMX antenna

05 - PowerCON TRUE1 input

06 - PowerCON TRUE1 output

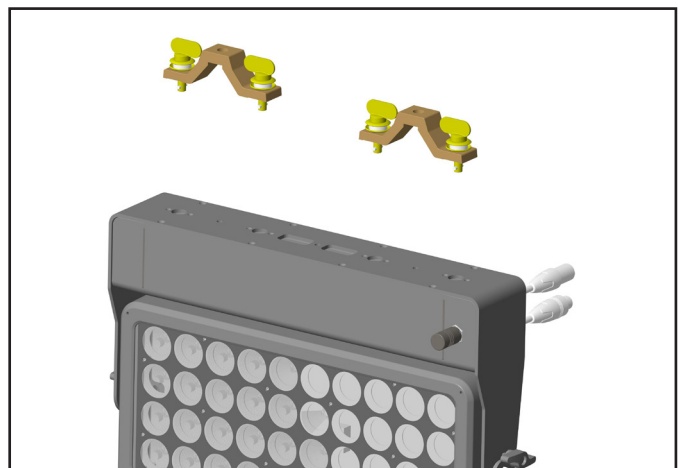
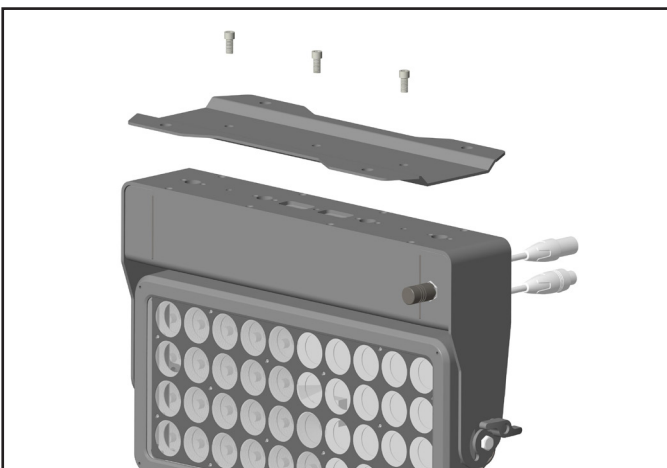
07 - IP rated 3-Pin XLR - Neutrik HD trailing input

08 - IP rated 3-Pin XLR - Neutrik HD trailing output

09 - Fans

In the box: **1 x fixture,**
1 x power cable &
1 x user manual

Underside mounting points:



Main Menu	Sub Menu	Options/Values		Description
DMX Control	Address	001-512		DMX Address Setting
	Channels	4 (4 channel mode)		DMX Channel Setting
		6 (6 channel mode)		
		8 (8 channel mode)		
W-DMX	ON		Wireless DMX Setting	
	OFF			
Slave Mode				Slave Mode Setting
Auto Mode				Auto Mode
Dimmer	Red	000-255		Manual Dimming Mode
	Green	000-255		
	Blue	000-255		
	White	000-255		
Program	Show	01	C[-] (Colour) - See page 6 for colours	Built-in Programs
			Flash [00-99]	
		02-14	Speed [001-100]	
			Flash [00-99]	
Settings	Curve Setting	Curves	Linear	Dimming Curves Setting
			Square Law	
			Inv Square Law	
			S-Curve	
		Dimmer Speed	Fast	
		Smooth		
	Backlight-T	10S		Backlight Time
		20S		
		30S		
		60S		
ON				
Backlight-L	01-10		Backlight Brightness	
Factory Reset	YES		Factory Reset	
	NO			
DMX Fail	OFF		DMX Signal Failure Setting	
	Hold			
Information	Temperature		Fixture Temperature	
	Software		Software Version	

Colour macros:

0	Blackout
1	Red
2	Flame Red
3	Deep Golden Amber
4	Millennium Gold
5	Gold Amber
6	Orange
7	Chrome Orange
8	Deep Amber
9	Spring Yellow

10	Lime Green
11	JAS Green
12	Fern Green
13	Moss Green
14	Primary Green
15	Dark Green
16	Green
17	Medium Blue/Green
18	Light Blue
19	Lighter Blue

20	Steel Blue
21	Half CT Blue
22	Full CT Blue
23	State Blue
24	Double CT Blue
25	Medium Blue
26	Just Blue
27	Deep Blue
28	Blue
29	Congo Blue

30	Surprise Pink
31	Fuchsia Pink
32	Follies Pink
33	Special Rose Pink
34	Pink
35	Moroccan Pink
36	Warm White
37	Cold White
38	White

W-DMX settings:

To enable W-DMX, press the **“MENU”** button and use the **“UP”** and **“DOWN”** buttons to select **“DMX Control”**. Press the **“UP”** and **“DOWN”** button and use the **“UP”** and **“DOWN”** buttons to select **“W-DMX”**. Now use the **“UP”** and **“DOWN”** buttons to select **“ON”**.

Press the **“ENTER”** button to confirm the setting.

The green LED to the left of the display will flash indicating it is searching for a signal.

Now pair your fixture with your W-DMX transmitter. The green LED will become static once successfully paired.

To disable W-DMX, press the **“MENU”** button and use the **“UP”** and **“DOWN”** buttons to select **“DMX Control”**. Press the **“UP”** and **“DOWN”** button and use the **“UP”** and **“DOWN”** buttons to select **“W-DMX”**. Now use the **“UP”** and **“DOWN”** buttons to select **“OFF”**. Press the **“ENTER”** button to confirm the setting.

Alternatively when W-DMX is enabled press and hold the **“MENU”** button, the display will show **“W-DMX Lock Out”**. Once this is complete the W-DMX has been disabled.

The green LED will go off to confirm W-DMX has been disabled.

To exit out of any of the above options, press the **“MENU”** button.

4 channel mode:

Channel	Value	Function
1	000-255	Red (0-100%)
2	000-255	Green (0-100%)
3	000-255	Blue (0-100%)
4	000-255	White (0-100%)

6 channel mode:

Channel	Value	Function
1	000-255	Master dimmer (0-100%)
2	000-255	Red (0-100%)
3	000-255	Green (0-100%)
4	000-255	Blue (0-100%)
5	000-255	White (0-100%)
6	000-255	Strobe (slow-fast)

7 channel mode:

Value	CH1	CH2	CH3	CH4	CH5	CH6	CH7		CH8
000						No function	No function		No function
001-018	Master dimmer (0-255)	Red (0-255)	Green (0-255)	Blue (0-255)	White (0-255)	Program 1	Value	Colour	Strobe (0-255)
							000-010	Blackout	
							011-016	Red	
							017-022	Flame Red	
							023-028	Deep Golden Amber	
							029-034	Millennium Gold	
							035-040	Gold Amber	
							041-046	Orange	
							047-052	Chrome Orange	
							053-058	Deep Amber	
							059-064	Spring Yellow	
							065-070	Lime Green	
							071-076	JAS Green	
							077-082	Fern Green	
							083-088	Moss Green	
							089-094	Primary Green	
							095-100	Dark Green	
							101-106	Green	
							107-112	Medium Blue/Green	
							113-118	Light Blue	
							119-124	Lighter Blue	
							125-130	Steel Blue	
							131-136	Half CT Blue	
							137-142	Full CT Blue	
							143-148	State Blue	
							149-154	Double CT Blue	
							155-160	Medium Blue	
							161-166	Just Blue	
167-172	Deep Blue								
173-178	Blue								
179-184	Congo Blue								
185-190	Surprise Pink								
191-196	Fuchsia Pink								
197-202	Follies Pink								
203-208	Special Rose Pink								
209-214	Pink								
215-220	Moroccan Pink								
221-226	Warm White								
227-232	Cold White								
233-255	White								

7 channel mode cont.:

Value	CH1	CH2	CH3	CH4	CH5	CH6	CH7	CH8
019-037	Master dimmer (0-255)	Red (0-255)	Green (0-255)	Blue (0-255)	White (0-255)	Program 2	Speed (slow-fast)	Strobe (0-255)
038-056						Program 3		
057-075						Program 4		
076-094						Program 5		
095-113						Program 6		
114-132						Program 7		
133-151						Program 8		
152-170						Program 9		
171-189						Program 10		
190-208						Program 11		
209-227						Program 12		
228-246						Program 13		
247-255						Program 14		

Setting the DMX address:

The DMX mode enables the use of a universal DMX controller. Each fixture requires a “start address” from 1- 512. A fixture requiring one or more channels for control begins to read the data on the channel indicated by the start address. For example, a fixture that occupies or uses 7 channels of DMX and was addressed to start on DMX channel 100, would read data from channels: 100,101,102,103,104,105 and 106. Choose a start address so that the channels used do not overlap. E.g. the next unit in the chain starts at 107.

DMX 512:

DMX (Digital Multiplex) is a universal protocol used as a form of communication between intelligent fixtures and controllers. A DMX controller sends DMX data instructions from the controller to the fixture. DMX data is sent as serial data that travels from fixture to fixture via the DATA “IN” and DATA “OUT” XLR terminals located on all DMX fixtures (most controllers only have a data “out” terminal).

DMX linking:

DMX is a language allowing all makes and models of different manufactures to be linked together and operate from a single controller, as long as all fixtures and the controller are DMX compliant. To ensure proper DMX data transmission, when using several DMX fixtures try to use the shortest cable path possible. The order in which fixtures are connected in a DMX line does not influence the DMX addressing. For example; a fixture assigned to a DMX address of 1 may be placed anywhere in a DMX line, at the beginning, at the end, or anywhere in the middle. When a fixture is assigned a DMX address of 1, the DMX controller knows to send DATA assigned to address 1 to that unit, no matter where it is located in the DMX chain.

DATA cable (DMX cable) requirements (for DMX operation):

This fixture can be controlled via DMX-512 protocol. The DMX address is set on the back of the unit. Your unit and your DMX controller require a standard 3-pin XLR connector for data input/output, see image below.



Further DMX cables can be purchased from all good sound and lighting suppliers or Pro Light Concepts dealers.

Please quote:

CABL10 – 2m

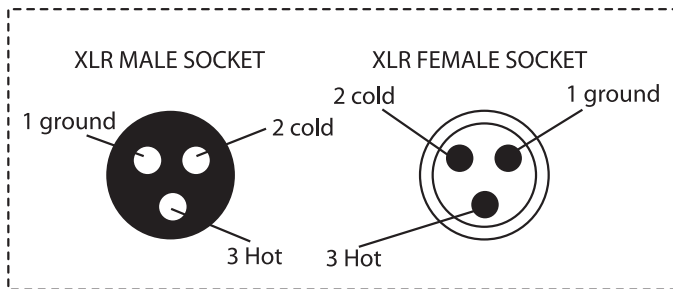
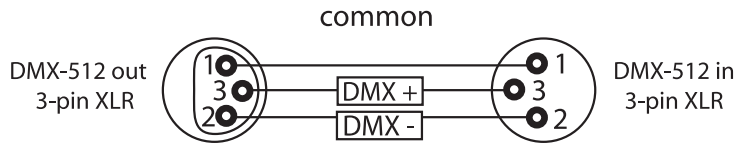
CABL11 – 5m

CABL12 – 10m

Also remember that DMX cable must be daisy chained and cannot be split.

Notice:

Be sure to follow the diagrams below when making your own cables. Do not connect the cables shield conductor to the ground lug or allow the shield conductor to come in contact with the XLRs outer casing. Grounding the shield could cause a short circuit and erratic behaviour.



XLR Pin Configuration
Pin 1 = Ground
Pin 2 = Negative
Pin 3 = Postive

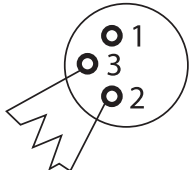
Special note:

Line termination:

When longer runs of cable are used, you may need to use a terminator on the last unit to avoid erratic behaviour.

Using a cable terminator will decrease the possibilities of erratic behaviour.

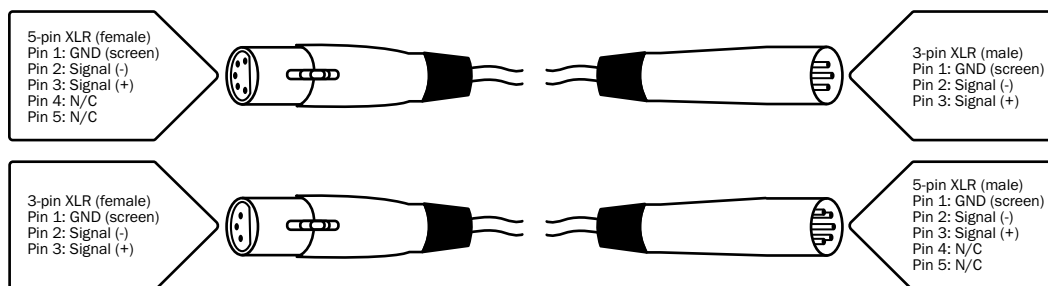
(3-pin - Order ref: CABL90, 5-pin - Order ref: CABL89)



Termination reduces signal transmission problems and interference. it is always advisable to connect a DMX terminal, (resistance 120 Ohm 1/4 W) between pin 2 (DMX-) and pin 3 (DMX+) of the last fixture.

5-pin XLR DMX connectors:

Some manufactures use 5-pin XLR connectors for data transmission in place of 3-pin. 5-pin XLR fixtures may be implemented in a 3-pin XLR DMX line. When inserting standard 5-pin XLR connectors in to a 3-pin line a cable adaptor must be used. The diagram below details the correct cable conversion.





***Correct Disposal of this Product
(Waste Electrical & Electronic Equipment)***

**(Applicable in the European Union and other European countries
with separate collection systems)**

This marking shown on the product or its literature, indicates that it should not be disposed of with other household wastes at the end of its working life. To prevent possible harm to the environment or human health from uncontrolled waste disposal, please separate this from other types of wastes and recycle it responsibly to promote the sustainable reuse of material resources.

Household users should contact either the retailer where they purchased this product, or their local government office, for details of where and how they can take this item for environmentally safe recycling.

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 wastes for disposal.



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