

## FEDOUR RD10-BW

# FEDOUR 18cm Submersible Aquarium Light (Model RD10-BW) User Manual

## 1. INTRODUCTION

Thank you for choosing the FEDOUR 18cm Submersible Aquarium Light. This LED light is designed to provide optimal illumination for your aquarium, featuring a 24/7 timer, multiple lighting modes, and adjustable brightness. Its IP68 waterproof rating ensures safe and reliable operation within your aquatic environment. Please read this manual carefully before installation and use to ensure proper function and longevity of your product.

## 2. SAFETY INSTRUCTIONS

- Always disconnect the power supply before performing any maintenance or installation.
- Ensure your hands are dry when handling the power adapter and plug.
- This product is designed for indoor aquarium use only.
- Do not attempt to disassemble or modify the light. This will void the warranty and may cause damage or injury.
- Ensure the power cable is not damaged or pinched.
- Keep out of reach of children.
- The light is IP68 waterproof and can be fully submerged. Ensure all connections are secure before submerging.

## 3. PACKAGE CONTENTS

Please check the package for the following items:

- FEDOUR 18cm Submersible Aquarium Light (Model RD10-BW)
- 12V DC Power Adapter
- Mode Setting Controller
- Strong Suction Cups (2 pieces)
- User Manual (this document)

# Specifications



Modell	Lampenlänge	Geeignet für Aquarien	Anzahl der LED-Chips	Leistung	Farbtemperatur	Kabellänge
RD10-200BW	18cm	20-30cm	9 Stück (6 Weiß, 3 Blau)	4W	Weiß: 6500K Blau: 440nm-490nm	3.3M
RD10-300BW	28cm	30-45cm	15 Stück (9 Weiß, 6 Blau)	6W		
RD10-400BW	38cm	40-55cm	27 Stück (15 Weiß, 12 Blau)	8W		
RD10-500BW	48cm	50-70cm	33 Stück (18 Weiß, 15 Blau)	10W		
RD10-600BW	58cm	60-90cm	39 Stück (21 Weiß, 18 Blau)	11W		

**Figure 1:** Components of the FEDOUR Aquarium Light. This image illustrates the main parts included: the LED light bar with 5730 LEDs, the 3.3-meter power cable, the 12V DC power adapter, the inline mode setting controller, and two strong suction cups for mounting.

## 4. PRODUCT FEATURES

- **24/7 Lighting Modes with Timer:** Automatic daily cycle mode simulates natural sunrise and sunset by adjusting light color and brightness.
- **IP68 Waterproof Design:** Fully submersible for uniform illumination. Equipped with strong suction cups for stable installation.
- **3 Colors & 3 Lighting Modes:** Features high-quality 5730 LED chips offering white, blue, and white+blue color options. Modes include M1 (Day), M2 (Night), and M3 (24/7 automatic cycle).
- **Adjustable Brightness Levels:** 10 freely adjustable brightness levels to suit various aquatic plants and fish.
- **Compact Size:** 18cm length, suitable for aquariums 20 to 30 cm long.



**Figure 2:** The FEDOUR Aquarium Light in use, providing illumination for an aquatic environment. This image demonstrates the visual impact of the light on an aquarium setup.

## 5. SETUP INSTRUCTIONS

1. **Unpack:** Carefully remove all components from the packaging.
2. **Attach Suction Cups:** Securely attach the strong suction cups to the ends of the LED light bar.
3. **Position the Light:**
  - **Submerged Installation:** Press the suction cups firmly against the inside glass of your aquarium, ensuring the light is fully submerged.
  - **External Installation:** Attach the suction cups to the outside glass of your aquarium, or place the light on top of a covered aquarium.
4. **Connect Power:** Connect the LED light bar to the mode setting controller, and then connect the controller to the 12V DC power adapter.
5. **Plug In:** Plug the power adapter into a suitable electrical outlet. Ensure a drip loop is formed with the power cable to prevent water from running down to the outlet.

## 6. OPERATING INSTRUCTIONS

The FEDOUR aquarium light features an inline controller for easy operation. Familiarize yourself with the buttons:



Figure 3: The inline controller with buttons for color selection, mode selection (M1, M2, M3), power, and timer settings (6H, 9H, 12H, 24H).

### 6.1 Power On/Off

- Press the **Power button** to turn the light on or off.

### 6.2 Adjusting Brightness

- When the light is on, press the **Brightness Up/Down buttons** (often indicated by sun icons) to cycle through 10 brightness levels (10% to 100%).

### 6.3 Selecting Lighting Modes

Press the **Mode button** to cycle through the available lighting modes:

- **M1: Day Mode** - Blue & White light at 100% brightness. Ideal for daytime viewing and plant growth.
- **M2: Night Mode** - Blue light at 30% brightness. Simulates moonlight for nighttime viewing.
- **M3: 24/7 Automatic Cycle Mode** - Simulates natural sunrise, daylight, and sunset.

## 3 attraktive Lichtmodi

Erzeugen faszinierende Unterwasser-Szenen bei Beleuchtung



Figure 4: Examples of the three attractive light modes: Blue Light, White Light, and Blue & White Light combination.

## Drei Lichtmodi: Modus 1–Modus 2



**M1:** Tagesmodus – Blaues & weißes Licht, 100 % Helligkeit.

**M2:** Nachtmodus – Blaues Licht, 30 % Helligkeit.



**Figure 5:** Comparison of M1 Day Mode (full brightness, blue & white) and M2 Night Mode (30% blue light).

## M3: 24/7-Automatischer Tageslichtsimulationsmodus

Die genauen Lichtwechsel entnehmen Sie bitte der Bedienungsanleitung.

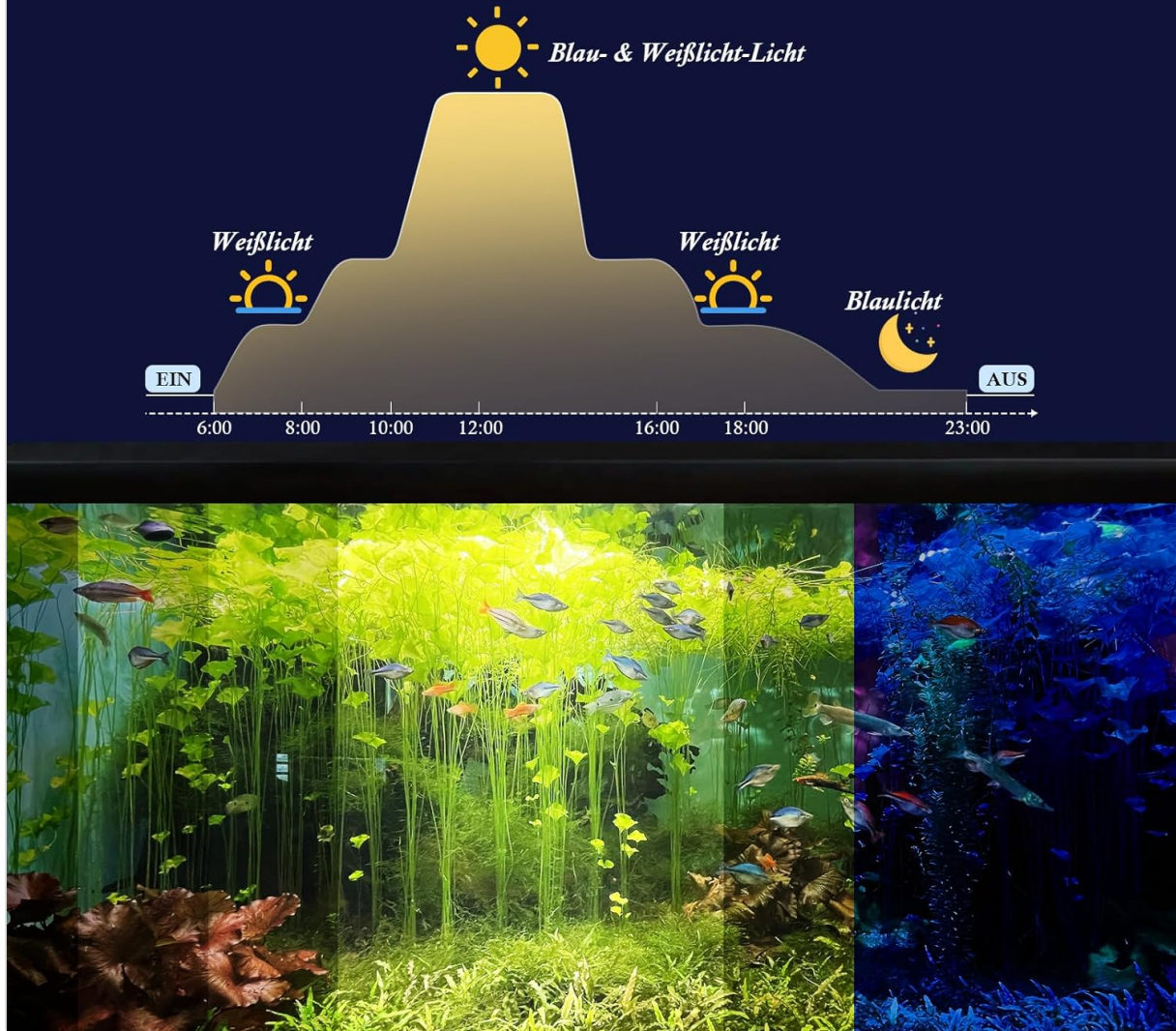


Figure 6: Detailed illustration of the M3 24/7 Automatic Daylight Simulation Mode, depicting the gradual changes in light intensity and color (white, blue & white, blue) over a 24-hour period to mimic natural light cycles.

### 6.4 Setting the Timer

The timer function allows you to set the light to turn off automatically after a specified duration.

- Press the **Timer button** (often labeled with a clock icon or "6H/9H/12H/24H").
- Each press will cycle through the available timer settings: 6 hours, 9 hours, 12 hours, 24 hours, or OFF.
- The light will automatically turn off after the selected duration.

## 7. MAINTENANCE

- **Cleaning:** Regularly clean the light bar with a soft, damp cloth to remove algae or mineral buildup. Ensure the power is disconnected before cleaning. Do not use harsh chemicals or abrasive materials.
- **Cable Inspection:** Periodically check the power cable and adapter for any signs of damage. If damage is found, discontinue use immediately and replace the component.
- **Suction Cups:** Over time, suction cups may lose their grip. Clean them and the glass surface thoroughly, or replace them if necessary, to ensure the light remains securely in place.

## 8. TROUBLESHOOTING

Problem	Possible Cause	Solution
Light does not turn on.	No power supply; faulty connection; power button not pressed.	Check if the power adapter is securely plugged into the outlet and the light. Press the power button on the controller. Test the outlet with another device.
Light flickers or is dim.	Loose connection; low power; light bar or adapter fault.	Ensure all connections are secure. Check brightness settings. If problem persists, contact customer support.
Timer function not working.	Incorrect timer setting.	Press the timer button repeatedly to select the desired duration (6H, 9H, 12H, 24H). Ensure it's not set to OFF.
Suction cups lose grip.	Dirty surface; worn out suction cups.	Clean the suction cups and the aquarium glass thoroughly. If they are old or damaged, replace them.

## 9. SPECIFICATIONS

Parameter	Value
Model Number	RD10-BW
Product Dimensions (L x W x H)	18 x 3 x 3 cm
Weight	260 grams
Suitable Aquarium Length	20 - 30 cm
Power	4 Watts
Input Voltage	220 Volts
Output Voltage	12V DC
Number of LEDs	9 (6 White, 3 Blue)
Light Color Temperature (White)	6500 Kelvin
Blue Light Wavelength	440nm - 490nm
Maximum Luminous Flux	180 Lumens
Color Rendering Index (CRI)	80
Waterproof Rating	IP68
Power Cable Length	3.3 meters
Material	Glass

Parameter	Value
Compliant Specifications	CE, EMC
Manufacturer	Ibay
UPC	658362017350

Produktdatenblatt			
DELEGIERTE VERORDNUNG (EU) 2019/2015 DER KOMMISSION zur Energieverbrauchskennzeichnung von Lichtquellen			
Name oder Handelsmarke des Lieferanten: Zhongshan Ibay Electric Appliance Co.,Ltd			
Anschrift des Lieferanten: Prolinx GmbH, Brehmstr.56 duseldorf Germany Germany			
Modellkennung: RD10-200BW			
Art der Lichtquelle:			
Verwendete Beleuchtungstechnologie:	LED	Ungebündelt oder gebündelt:	NDLS
Art des Sockels der Lichtquelle (oder andere elektrische Schnittstelle)	Type Y		
Netzspannung/Nicht direkt an die Netzspannung angeschlossen:	MLS	Vernetzte Lichtquelle (CLS):	Nein
Farblich abstimmbare Lichtquelle:	Nein	Hülle:	-
Lichtquelle mit hoher Leuchtdichte:	Nein		
Blendschutzschild:	Nein	Dimmbar:	Nein
Produktparameter			
Parameter	Wert	Parameter	Wert
Allgemeine Produktparameter:			
Energieverbrauch im Ein-Zustand (kWh/1000 h), auf die nächstliegende ganze Zahl gerundet	4	Energieeffizienzklasse	G
Nutzlichtstrom ( $\phi_{use}$ ) mit Angabe, ob sich der Wert auf den Lichtstrom in einer Kugel (360 °), in einem breiten Kegel (120 °) oder in einem schmalen Kegel (90 °) bezieht	180 in Kugel (360 °)	ähnliche Farbtemperatur, gerundet auf die nächstliegenden 100 K, oder Spanne der einstellbaren ähnlichen Farbtemperaturen, gerundet auf die nächstliegenden 100 K	10 000
Leistungsaufnahme im Ein-Zustand ( $P_{on}$ ) in W	3,7	Leistungsaufnahme im Bereitschaftszustand ( $P_{sb}$ ) in W, auf die zweite Dezimalstelle gerundet	0,00
Leistungsaufnahme im vernetzten Bereitschaftsbetrieb ( $P_{net}$ ) für CLS in W, auf die zweite Dezimalstelle gerundet	-	Farbwiedergabeindex, auf die nächstliegende ganze Zahl gerundet, oder Spanne der einstellbaren CRI-Werte	80
äußere Abmessungen, ggf. ohne separates Betriebsgerät, Beleuchtungssteuerungsteile und Nicht-Beleuchtungsteile (Millimeter)	Höhe	200	Spektrale Strahlungsverteilung im Bereich 250 nm bis 800 nm bei Volllast
	Breite	20	
	Tiefe	20	
Angabe zu einer gleichwertigen Leistungsaufnahme <sup>(a)</sup>	-	Falls ja, gleichwertige Leistungsaufnahme (W)	-
		Farbwertanteile (x und y)	0,361 0,367
Parameter für LED- und OLED-Lichtquellen:			
Wert des R9-Farbwiedergabeindex	65	Lebensdauerfaktor	1,00
Lichtstromerhalt	0,96		
Parameter für LED- und OLED-Netzspannungslichtquellen:			
Verschiebungsfaktor (cos $\phi_1$ )	0,40	Farbkonsistenz in MacAdam-Ellipsen	6
Angabe, dass eine LED-Lichtquelle eine Leuchtstofflicht-	„(b)“	Falls ja, Angabe zur ersetzten Leistungs-	-

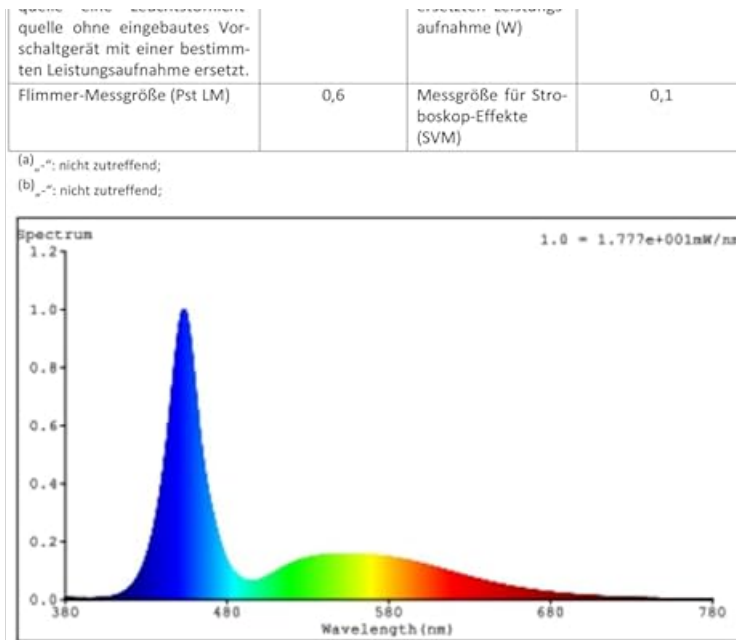


Figure 7: Product data sheet providing comprehensive technical specifications for the FEDOUR aquarium light.

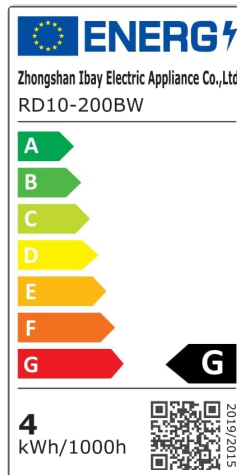


Figure 8: EU Energy Label for the FEDOUR aquarium light, indicating an energy efficiency class of G. For more details, refer to the official EPREL database: <https://eprel.ec.europa.eu/qr/2525065>

## 10. WARRANTY AND SUPPORT

FEDOUR products are manufactured with quality and reliability in mind. While specific warranty details are not provided in this manual, please retain your proof of purchase for any warranty claims.

For technical support, troubleshooting assistance, or warranty inquiries, please contact your retailer or the manufacturer directly. Contact information can usually be found on the product packaging or the retailer's website.