

Barlus SK2F-4D6WX10

Barlus SK2F-4D6WX10 Underwater Viewing Camera Instruction Manual

Model: SK2F-4D6WX10

Brand: Barlus

1. INTRODUCTION

This manual provides essential information for the safe and effective operation of your Barlus SK2F-4D6WX10 Underwater Viewing Camera. Please read this manual thoroughly before using the product and retain it for future reference.

The Barlus SK2F-4D6WX10 is a high-definition underwater camera designed for various monitoring and viewing applications in aquatic environments. It features a robust waterproof design, a smart lens cleaning brush, and motorized focusing capabilities to ensure clear and stable imaging.

Smart Lens Cleaning Brush

Reduced frequency of manual cleaning

Say goodbye to dirty lenses



Timer mode



Manual mode



Independent motor
runs more powerfully



Figure 1: Barlus SK2F-4D6WX10 Underwater Viewing Camera. This image shows the main unit of the camera, highlighting its compact and durable design.

2. PRODUCT OVERVIEW AND KEY FEATURES

The Barlus SK2F-4D6WX10 camera is engineered for reliable performance in challenging underwater conditions. Its primary features include:

- **Smart Lens Cleaning Brush:** An integrated brush system designed for automated or manual cleaning of the camera lens underwater, reducing the need for frequent manual maintenance.
- **High-Definition Imaging:** Equipped with a 1080p HD CMOS sensor and a 60FPS frame rate for clear, stable, and high-resolution real-time monitoring.
- **Durable Underwater Construction:** IP68 dustproof and waterproof rating, constructed from 316 stainless steel, and featuring a special material cable for anti-corrosion, anti-friction, and anti-aging properties.
- **Motorized Focusing:** Allows for precise control of focus, with a minimum focus distance of 5cm, ensuring sharp images of objects at various depths.

- **Intelligent Lighting System:** Built-in IR and white light with automatic, manual, and timer control modes for optimal illumination in diverse underwater environments.
- **Versatile Connectivity:** Supports RTSP/RTMP/ONVIF protocols for easy live streaming to various platforms and integration with other devices.

Package Included



Power Adapter



USB Flash Drive



Camera



Power Adapter



USB Flash Drive
(instruction and software)



Camera

Barlus provides you with professional services

Figure 2: Applicable Scenarios. This image illustrates various uses for the camera, including underwater operations, bottom surveys, marine monitoring, and submerged aquaculture.

3. PACKAGE CONTENTS

Verify that all items listed below are included in your package. If any items are missing or damaged, please contact customer support.

- Barlus SK2F-4D6WX10 Underwater Viewing Camera
- Power Adapter (DC24V)

- USB Flash Drive (containing instructions and software)
- 32ft (approximately 9.75m) Cable



Figure 3: Package Contents. This image displays the camera unit, power adapter, and USB flash drive included in the package.

4. SETUP INSTRUCTIONS

Follow these steps to set up your Barlus SK2F-4D6WX10 camera:

1. **Unpack:** Carefully remove all components from the packaging.
2. **Software Installation:** Insert the provided USB Flash Drive into your computer. Install any necessary software or drivers as instructed on the drive. This software is typically used for camera configuration and advanced features.
3. **Power Connection:** Connect the power adapter to the camera's power input. Ensure the power adapter is connected to a suitable power source (DC24V).
4. **Network Connection:** Connect the camera to your network using the integrated 32ft cable. The camera supports Ethernet connectivity. You can connect it directly to a computer or to a router for network access.
5. **Placement:** Securely mount the camera in the desired underwater location. Ensure the cable is routed safely and is not under tension.
6. **Initial Configuration:** Access the camera's interface via the installed software or a web browser (refer to the USB Flash Drive for default IP address and login details). Configure network settings, image preferences, and lens cleaning schedules as needed.

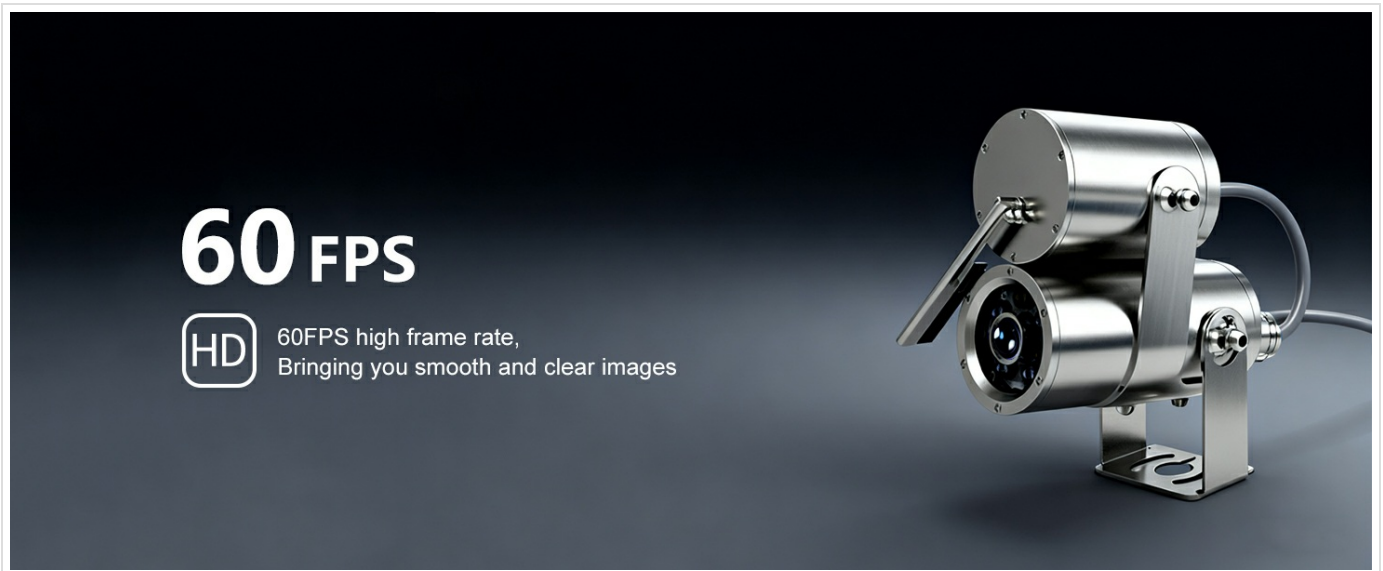


Figure 4: Connection Methods. This diagram illustrates two ways to connect the camera: directly to a computer or via a router for network access.

5. OPERATING INSTRUCTIONS

Once the camera is set up and connected, you can begin operation. The camera's functions are primarily controlled via the provided software or web interface.

5.1. Viewing Live Feed

Open the Barlus camera software or access the camera's IP address in a web browser. The live video feed should be displayed. Adjust resolution and other video settings as required for your monitoring needs.

5.2. Motorized Focusing

Use the software interface to adjust the camera's focus. This allows you to achieve clear images of objects at varying distances. The camera offers precise control for optimal clarity.

IMAGE ENHANCEMENT TECHNOLOGY

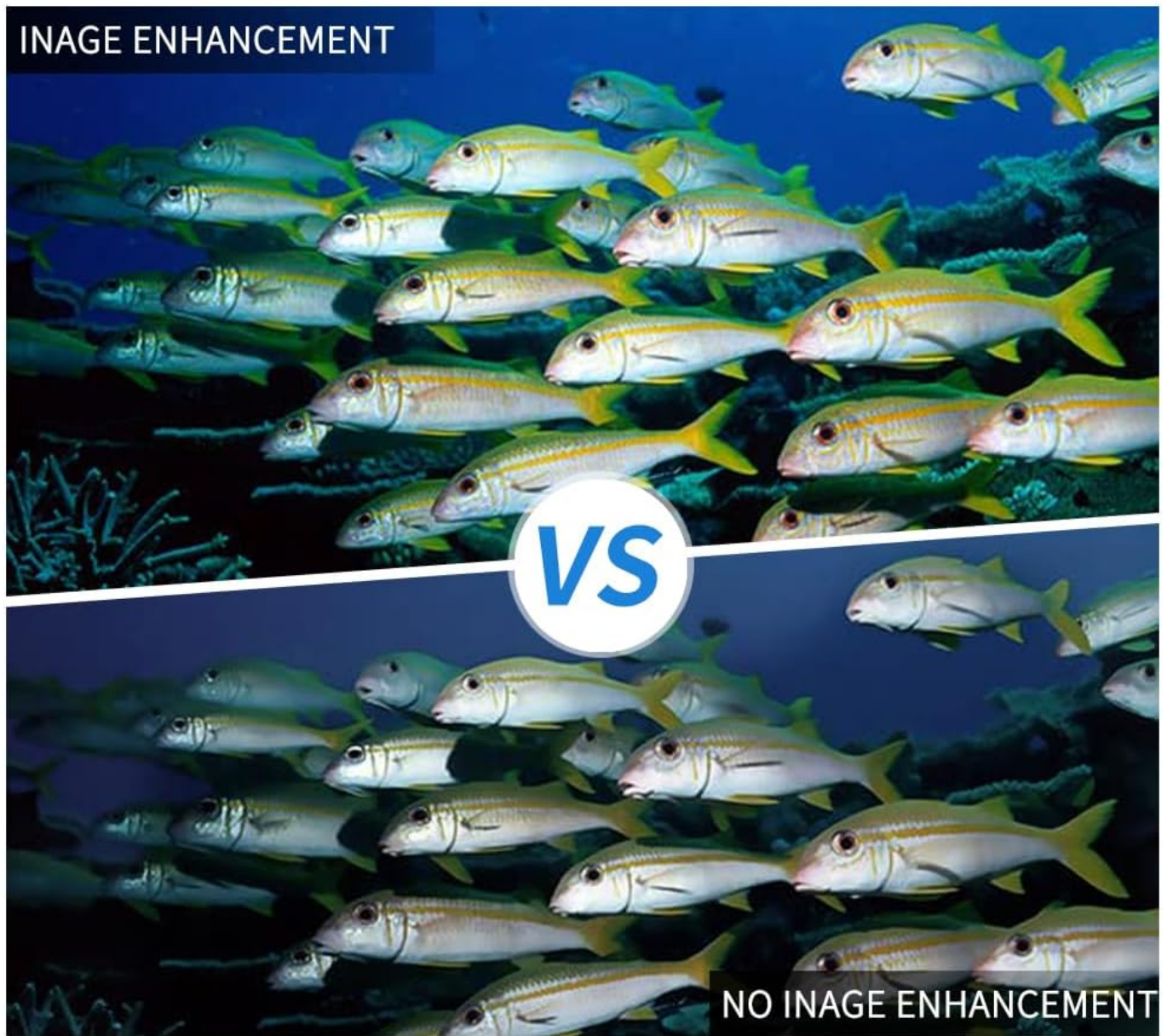


Figure 5: Motorized Focusing. This image demonstrates the camera's ability to focus on different subjects, such as a sea turtle or fish, using software control.

5.3. Intelligent Lighting System

The camera features built-in IR and white lights. You can control these lights through the software with three modes:

- **Automatic Mode:** Lights adjust automatically based on environmental conditions.
- **Manual Mode:** Manually turn the lights on or off.
- **Timer Mode:** Set specific times for the lights to activate or deactivate.



MOTORIZED FOCUSING

1. Precise control, min focus of 5cm
2. Stable performance & Clear imaging
3. Easy operation



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Motorized
Focusing



Software
Control



Figure 6: Intelligent Lighting System. This image illustrates the three lighting modes: Automatic, Manual, and Timer, for controlling the camera's built-in IR and white lights.

5.4. Image Enhancement

The camera incorporates image enhancement technology to improve clarity and visibility in underwater conditions. This feature helps to produce more vibrant and detailed images compared to unenhanced footage.

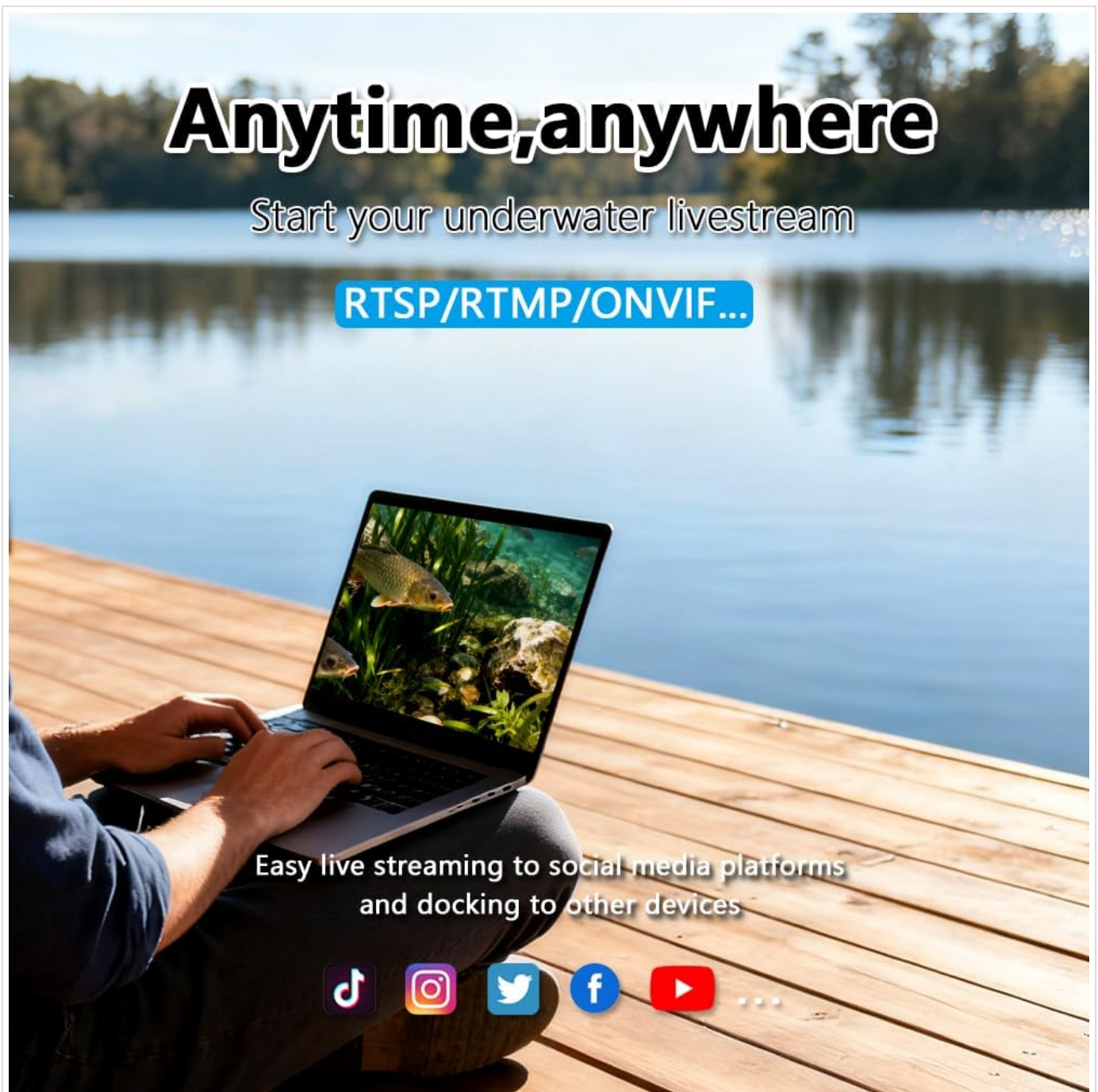


Figure 7: Image Enhancement Technology. This image provides a visual comparison of video quality with and without image enhancement, demonstrating improved clarity.

5.5. Live Streaming

The camera supports various streaming protocols (RTSP/RTMP/ONVIF), allowing you to live stream your underwater feed to social media platforms or integrate with other monitoring systems.

APPLICABLE SCENARIOS



Underwater Operations



Bottom Survey



Marine Monitoring



Submerged Aquaculture

Figure 8: Live Streaming. This image shows a laptop displaying a live underwater feed, indicating the camera's ability to stream to various platforms.

Your browser does not support the video tag.

Video 1: Barlus Underwater Camera in the Sea of Maldives. This video demonstrates the camera's live viewing capabilities in a natural marine environment, showcasing various fish and coral formations.

6. MAINTENANCE

Proper maintenance ensures the longevity and optimal performance of your Barlus underwater camera.

6.1. Smart Lens Cleaning Brush

The integrated smart lens cleaning brush helps maintain clear visibility. You can configure the cleaning frequency through the camera's software. This feature is designed to automatically remove debris and marine growth from the lens surface.

Easy Lens Cleaning



Brush blade design for perfect lens fit

Setting timed auto-cleaning can effectively interfere with underwater organisms attaching to the lens.

Figure 9: Smart Lens Cleaning Brush. This image highlights the mechanical design of the integrated lens cleaning brush, showing its operation in both timer and manual modes.

Intelligent Lighting System

3
Modes

Built-in IR&White light, Lighting time can be set freely



Automatic

Lights up according to environment

Manual

Manual on/off light

Timer

Setting the lighting time

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Figure 10: Easy Lens Cleaning. This image provides a visual comparison of the camera's view before and after lens cleaning, demonstrating its effectiveness in removing obstructions.

6.2. General Cleaning and Inspection

- Periodically inspect the camera body and cable for any signs of damage, wear, or corrosion.
- Gently clean the exterior of the camera with fresh water after use in saltwater environments to prevent salt buildup.
- Ensure all connections are secure and free from debris.

7. TROUBLESHOOTING

If you encounter issues with your Barlus camera, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
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Problem	Possible Cause	Solution
No video feed	Power not connected	Check power adapter connection.
	Network cable disconnected	Verify Ethernet cable is securely connected.
	Incorrect IP address/network settings	Confirm camera's IP address and network configuration in software.
Blurry image	Lens is dirty	Activate the smart lens cleaning brush.
	Incorrect focus setting	Adjust motorized focus via software.
Poor visibility in low light	Lighting system off or in incorrect mode	Switch the intelligent lighting system to Automatic or Manual ON mode.

For further assistance, please refer to the comprehensive guide on the provided USB Flash Drive or contact Barlus customer support.

8. SPECIFICATIONS

Feature	Detail
Model Name	SK2F-4D6WX10
Brand	Barlus
Video Capture Resolution	1080p
Frame Rate	60FPS
Sensor Type	CMOS
Effective Still Resolution	2 MP
Water Resistance Level	Waterproof (IP68)
Material	316 Stainless Steel
Connectivity Technology	Ethernet
Focus Type	Manual Focus (Motorized)
Macro Focus Range	5 Centimeters
Exposure Control Type	Automatic, Manual
Shooting Modes	Underwater
Media Type	SD Card (for recording, if supported by software)
Video Capture Format	MP4, AVI
File Format	JPEG, RAW
Light Sensitivity (ISO Range)	100-800 (100-1600)
Optical Zoom	1x

Feature	Detail
Built-In Media	Camera Body & Accessories

9. WARRANTY AND SUPPORT

9.1. Warranty Information

The Barlus SK2F-4D6WX10 Underwater Viewing Camera comes with a **1-year warranty** from the date of purchase. This warranty covers manufacturing defects and malfunctions under normal use. It does not cover damage caused by misuse, accident, unauthorized modification, or improper installation.

Please retain your proof of purchase for warranty claims.

9.2. Customer Support

For technical support, troubleshooting assistance, or warranty inquiries, please refer to the contact information provided on the USB Flash Drive included with your product or visit the official Barlus website.

You can also visit the Barlus Store on Amazon for additional product information and support [Barlus Store](#)

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