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› Barlus 5MP Full HD Underwater POE Camera SK5F-4PX10 Instruction Manual

Barlus SK5F-4PX10

Barlus 5MP Full HD Underwater POE Camera

MODEL: SK5F-4PX10 INSTRUCTION MANUAL

1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, maintenance, and troubleshooting of your Barlus 5MP Full HD Underwater POE Camera, model SK5F-4PX10. Please read this manual thoroughly before using the product to ensure proper functionality and longevity.

2. PRODUCT FEATURES

- **Enhanced Video Quality:** Features an upgraded Sony sensor and new image enhancement functions. Intelligent filtering reduces green tint in water, balancing video imaging for clearer details. Delivers 5MP Full HD underwater video output.
- **Timed On/Off Lights:** Includes a 1000-lumen remote-controllable fill light with adjustable infrared and white light. Improves visibility in dark environments. A timer function allows scheduling light activation and deactivation for convenience and efficiency.
- **Adjustable Focal Length:** Capable of focusing on objects from 5 cm onwards. Features fast focusing speed and software-adjustable focus. Ensures clear focus on objects at various distances, whether close or far.
- **Dual Power Mode:** Supports both Power over Ethernet (POE) and DC 12V power. A single network cable can provide both power and data transmission. Ideal for fixed underwater installations requiring continuous power without battery concerns.
- **Durable Fixed Underwater Camera:** Constructed with a marine-grade stainless steel casing and IP68 waterproofing. Offers excellent corrosion resistance and waterproof performance. Suitable for long-term fixed installations in both freshwater and saltwater environments, ensuring stable monitoring.

3. PACKAGE CONTENTS

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

- Barlus Underwater POE Camera (SK5F-4PX10)

- Power Adapter
- USB Flash Drive (containing instructions and software)
- Mounting Accessories



Image 3.1: Contents of the Barlus Underwater POE Camera package, showing the camera unit, power adapter, and connection cable.

4. SETUP AND INSTALLATION

4.1 Power Connection

The camera supports two power modes: Power over Ethernet (POE) and DC 12V. Choose the method suitable for your installation.

- **POE Connection:** Connect a POE-enabled Ethernet cable directly to the camera's network port. This single cable provides both power and data.
- **DC 12V Connection:** Connect the provided power adapter to the camera's DC input port, then plug the adapter

into a standard power outlet. Connect a separate Ethernet cable for data transmission.

4.2 Mounting the Camera

The camera is designed for fixed underwater installation. Use the included mounting accessories to secure the camera in your desired location. Ensure the mounting surface is stable and can support the camera's weight.



Image 4.1: The Barlus camera shown with its integrated mounting bracket, ready for fixed installation.

4.3 Software Installation

Insert the provided USB flash drive into your computer. Install the necessary software for camera configuration, viewing, and focus adjustment. Refer to the instructions on the USB drive for detailed software installation steps.

5. OPERATING INSTRUCTIONS

5.1 Motorized Focusing

The camera features a motorized lens for precise focus adjustment. Use the control software on your computer to adjust the focal length. This allows for clear imaging of objects from 5 cm to several meters away.



Image 5.1: An underwater scene demonstrating the camera's motorized focusing, highlighting its ability to achieve sharp images of subjects like a ray.

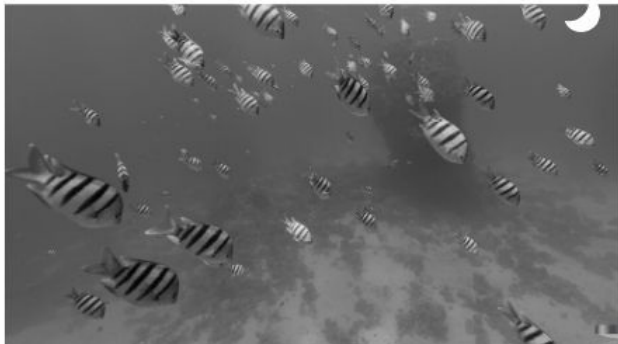
5.2 Intelligent Lighting System

The camera is equipped with an intelligent lighting system, including both infrared and white fill lights. These lights can be controlled remotely via the software.

- **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 turn on and off.



19: 00 PM 8: 00 AM IR light /White light on



3 light control modes

Automatic / Manual / Timer



Can also control lights remotely



Image 5.2: The camera's intelligent lighting system illuminating a dark underwater scene, demonstrating its effectiveness in low-light conditions.

5.3 Image Enhancement

The camera features advanced image enhancement capabilities to provide clearer and more vibrant underwater footage. This includes filtering out green tints common in aquatic environments and backlight compensation.

FOCUS ADJUSTABLE via computer

5cm-4m adjustable Macro for better clarity

✓ Small pool/large pool

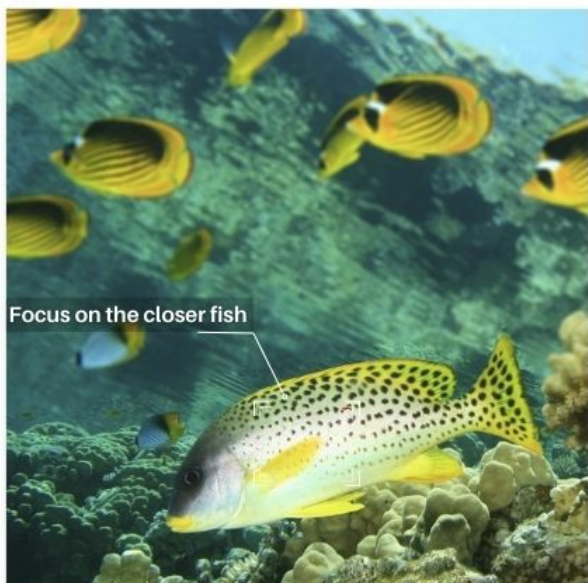


Image 5.3: A side-by-side comparison illustrating the improved clarity, detail, and color reproduction achieved with the camera's upgraded

5.4 Viewing and Sharing

The camera supports various viewing and sharing options, including RTSP/RTMP protocols. You can view live feeds on compatible devices such as personal computers and laptops. The video aspect ratio is switchable.

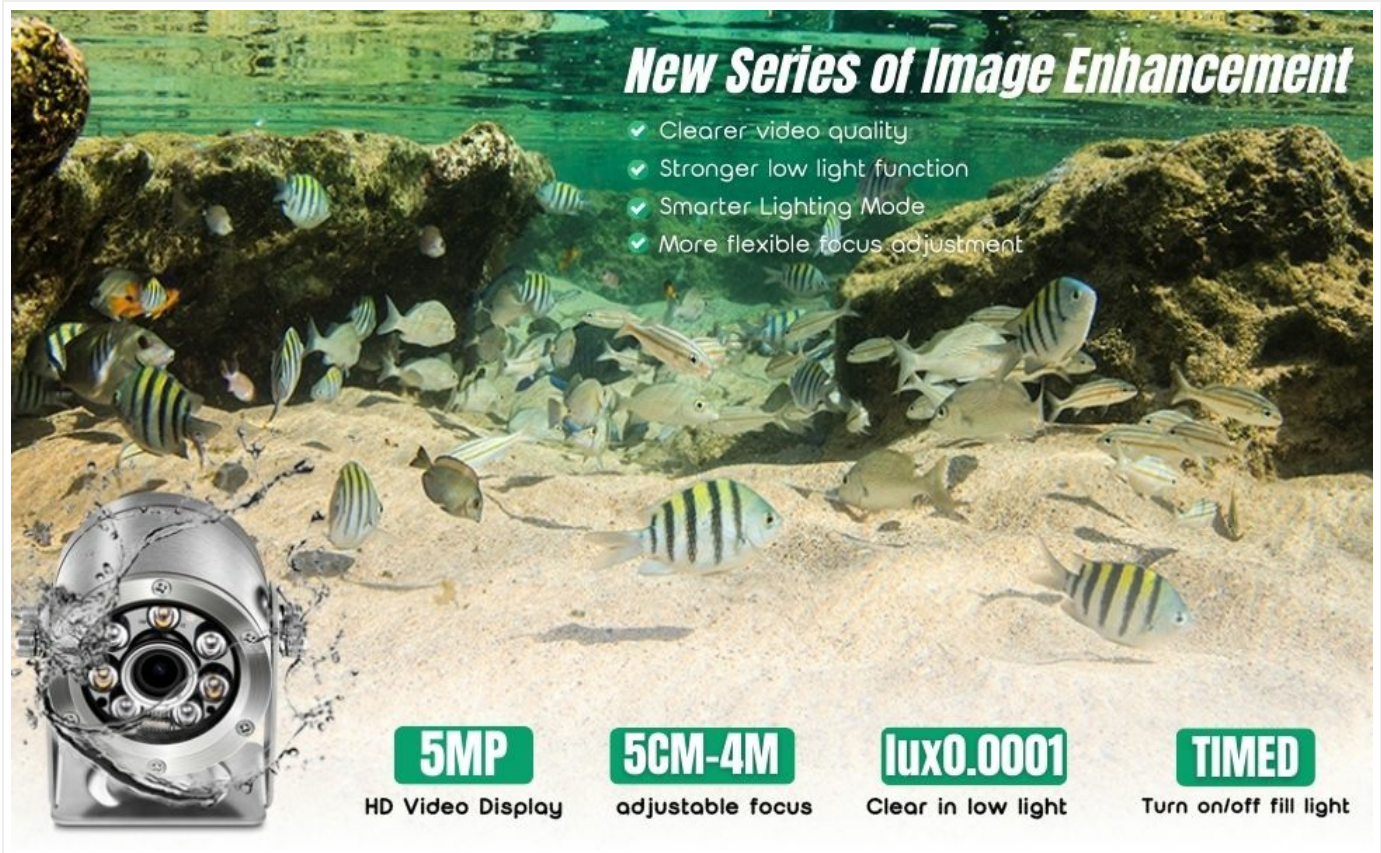


Image 5.4: Example of viewing live underwater footage on a laptop and smartphone, demonstrating the ease of monitoring and potential for sharing.

6. MAINTENANCE

6.1 Cleaning

Regularly inspect the camera lens and housing for any marine growth, dirt, or debris. Gently clean the lens with a soft, lint-free cloth and fresh water. Avoid abrasive materials or harsh chemicals that could damage the lens or housing.

6.2 Durability and Water Resistance

The Barlus camera features a marine-grade stainless steel casing and IP68 waterproofing, ensuring excellent resistance to corrosion and water ingress. It is designed for long-term fixed installations in both freshwater and saltwater environments.

APPLICABLE SCENARIOS



More scenes for you to explore

Image 6.1: The camera submerged in water, illustrating its robust waterproof construction and suitability for depths up to 50 meters.

7. TROUBLESHOOTING

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

Problem	Possible Cause	Solution
No image/video feed	Power issue, network cable disconnected, software not running.	Check power connection (POE or DC 12V). Ensure Ethernet cable is securely connected. Verify that the viewing software is running and configured correctly.
Blurry image	Incorrect focus setting, dirty lens.	Adjust the focus using the control software. Clean the camera lens gently with a soft cloth and fresh water.

Problem	Possible Cause	Solution
Lights not working	Light mode setting, power issue.	Check the light control settings in the software (Automatic, Manual, Timer). Ensure the camera is receiving adequate power.
Poor image quality (color distortion)	Environmental factors, software settings.	Ensure image enhancement features are enabled in the software. The camera's intelligent filtering should compensate for green tints.

8. TECHNICAL SPECIFICATIONS

Feature	Specification
Brand	Barlus
Item Model Number	SK5F-4PX10
Photo Sensor Technology	CMOS
Video Recording Resolution	2592p (5MP Full HD)
Video Capture Format	MP4
Supported Audio Format	MP3, AAC
Connectivity Technology	Ethernet (POE support)
Special Feature	Motorized Focus
Optical Zoom	1.0x
Optical Sensor Size	1/2.8-inch
Water Resistance Level	IP68 (Waterproof)
Image Stabilization	No (Digital Image Stabilizer)
Lens Type	Wide Angle
Focus Type	Fixed Focus (Software Adjustable)
Effective Still Resolution	5 Megapixels
Shooting Modes	Underwater
Image Aspect Ratio	16:9
Supported Image Format	JPEG
Exposure Control Type	Automatic
Compatible Devices	Personal Computer, Laptop
Model Name	KF
Box Contents	Camera Body and Accessories

Feature	Specification
Batteries Included	No
Maximum Display Resolution	2592p
Zoom Type	Optical
Package Dimensions	28 x 27 x 11 cm; 2.8 kilograms
Country of Origin	China

9. WARRANTY AND SUPPORT

Warranty information for your Barlus Underwater POE Camera is typically provided with your purchase documentation. Please refer to the warranty card or contact your retailer for specific details regarding warranty coverage and duration. For technical support or further assistance, please consult the contact information provided on the USB flash drive included with your product or visit the official Barlus website.

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

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Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question

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