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BSIDE HX2

BSIDE HX2 Infrared Thermal Imaging Camera User Manual

Model: HX2

1. INTRODUCTION

The BSIDE HX2 is an advanced infrared thermal imaging camera designed for precise temperature measurement and fault detection. It features a 320x240 pixel resolution, a wide temperature measurement range, and a high frame rate for clear and accurate thermal analysis. This manual provides essential information for the safe and effective operation, setup, and maintenance of your device.

2. PRODUCT OVERVIEW

The BSIDE HX2 camera integrates several features to enhance thermal imaging capabilities, including dual-light fusion, multiple color palettes, and data storage.



Figure 2.1: BSIDE HX2 Thermal Imaging Camera. This image illustrates the device's ability to visualize defects, offering clearer images and more accurate temperature measurements through infrared thermal imaging. Key features include dual-light fusion, 240x320 pixel heat map resolution, 15 pseudo-color modes, built-in 4GB memory, and data export support. Examples of applications like circuit board inspection, building floor heating, electrical equipment, and building pipeline analysis are shown.

Key Features:

- **Dual-light Fusion:** Combines thermal imaging with visible light for enhanced detail.
- **High Resolution:** 320x240 IR resolution for detailed thermal maps.
- **Wide Temperature Range:** Measures from -4°F to 1022°F (-20°C to 550°C).
- **Fast Frame Rate:** 25 Hz for smooth real-time temperature monitoring.
- **Temperature Alarms:** Configurable high/low temperature alarms.
- **15 Pseudo-Color Modes:** Various color palettes for different visualization needs.
- **Built-in Memory:** 4GB internal storage for up to 26,000 BMP image files.
- **Data Export:** Connects via USB to a computer for data transfer.
- **Wide-Angle Lens:** 50°x50° lens for a broader field of view.
- **Durable Design:** Sturdy, wear-resistant, and durable casing with IP54 protection and 1.5m drop resistance.

3. SETUP

3.1 Battery Installation and Charging

The BSIDE HX2 camera comes with a built-in Lithium-ion battery. Ensure the device is fully charged before first use. Connect the camera to a power source using the provided USB cable. The charging indicator will show the charging status.

3.2 Initial Power On

Press and hold the power button (usually marked with a power symbol) until the screen illuminates. The device will perform a self-check before displaying the thermal image.

4. OPERATING INSTRUCTIONS

4.1 Power On/Off

- **To Power On:** Press and hold the power button until the display activates.
- **To Power Off:** Press and hold the power button until the shutdown sequence initiates and the screen turns off.

4.2 Temperature Measurement Modes

The camera offers multiple temperature measurement modes for real-time monitoring.

Cold and hot spot tracking + center point

Multiple temperature measurement modes
for real-time temperature monitoring

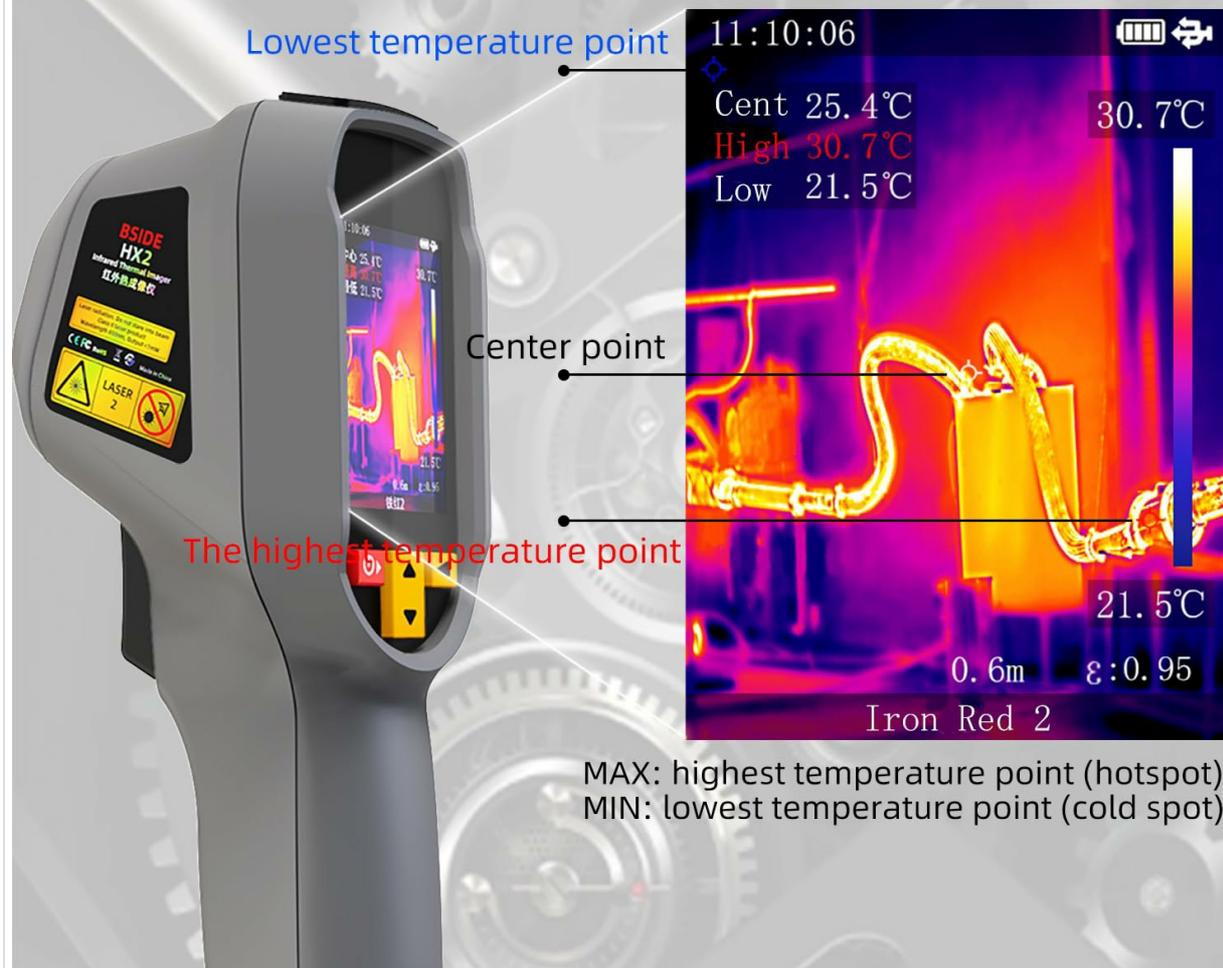


Figure 4.1: Cold and Hot Spot Tracking. This image demonstrates the camera's ability to track the lowest temperature point (cold spot), the highest temperature point (hotspot), and display the center point temperature, providing comprehensive real-time temperature monitoring.

- **Center Point Measurement:** Displays the temperature at the center of the screen.
- **Highest Temperature Point (Hotspot):** Automatically identifies and displays the maximum temperature within the field of view.
- **Lowest Temperature Point (Cold Spot):** Automatically identifies and displays the minimum temperature within the field of view.

Radiant heating thermal imaging detection

What you see is what you get

The image is clearer, automatically captures the target temperature value, and shows effects in multiple scenes central point, highest temperature point, lowest temperature point, precise temperature measurement.



Figure 4.2: Radiant Heating Thermal Imaging Detection. This image illustrates how the camera provides clear images, automatically captures target temperature values, and shows effects in multiple scenes, including central point, highest temperature point, and lowest temperature point for precise temperature measurement.

4.3 Color Palettes

The BSIDE HX2 offers 15 types of color palette patterns to visualize temperature differences effectively. These can be switched quickly using dedicated keys.

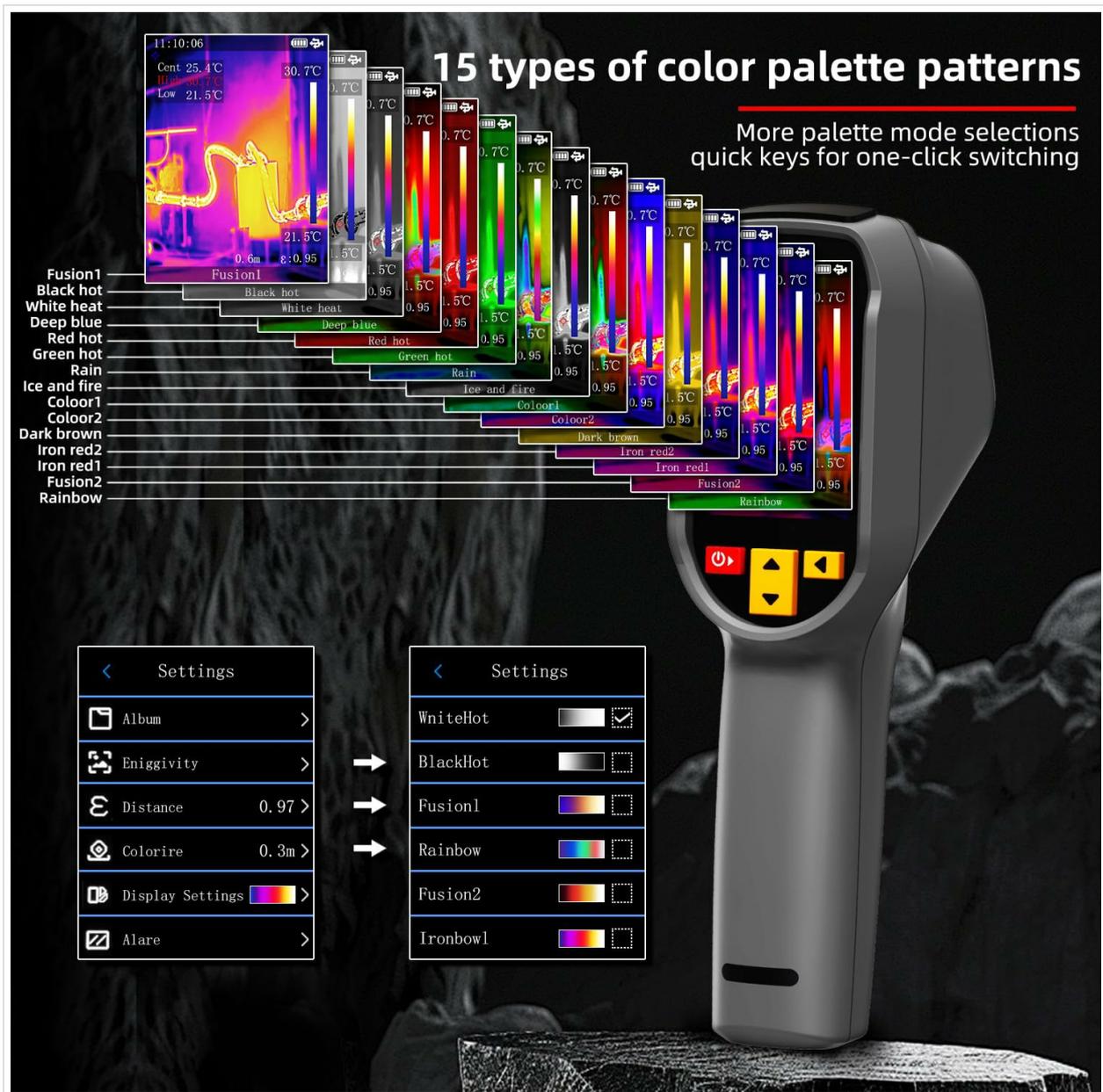


Figure 4.3: Color Palette Selection. This image displays the variety of 15 color palette patterns available, such as Fusion1, Black hot, White hot, Deep blue, Red hot, Green hot, Rain, Ice and fire, Colour1, Colour2, Dark brown, Iron red2, Iron red1, and Rainbow. It also shows the settings menu for selecting these palettes and other display options.

4.4 Data Export

The camera includes a built-in 4GB memory card capable of storing approximately 26,000 BMP image files. Data can be exported to a computer via a USB connection.

Built-in memory card

Connect to the computer via usb



Support data export

Built-in 4G memory card

Number of image files: 26,000

BMP image format



Figure 4.4: Data Export via USB. This image shows the BSIDE HX2 connected to a laptop via USB, demonstrating the process of exporting images stored on the built-in 4GB memory card. The camera supports BMP image format.

4.5 Wide-Angle Lens

The 50°x50° wide-angle lens allows for a larger distance and a wider field of view, making it suitable for scanning larger areas efficiently.

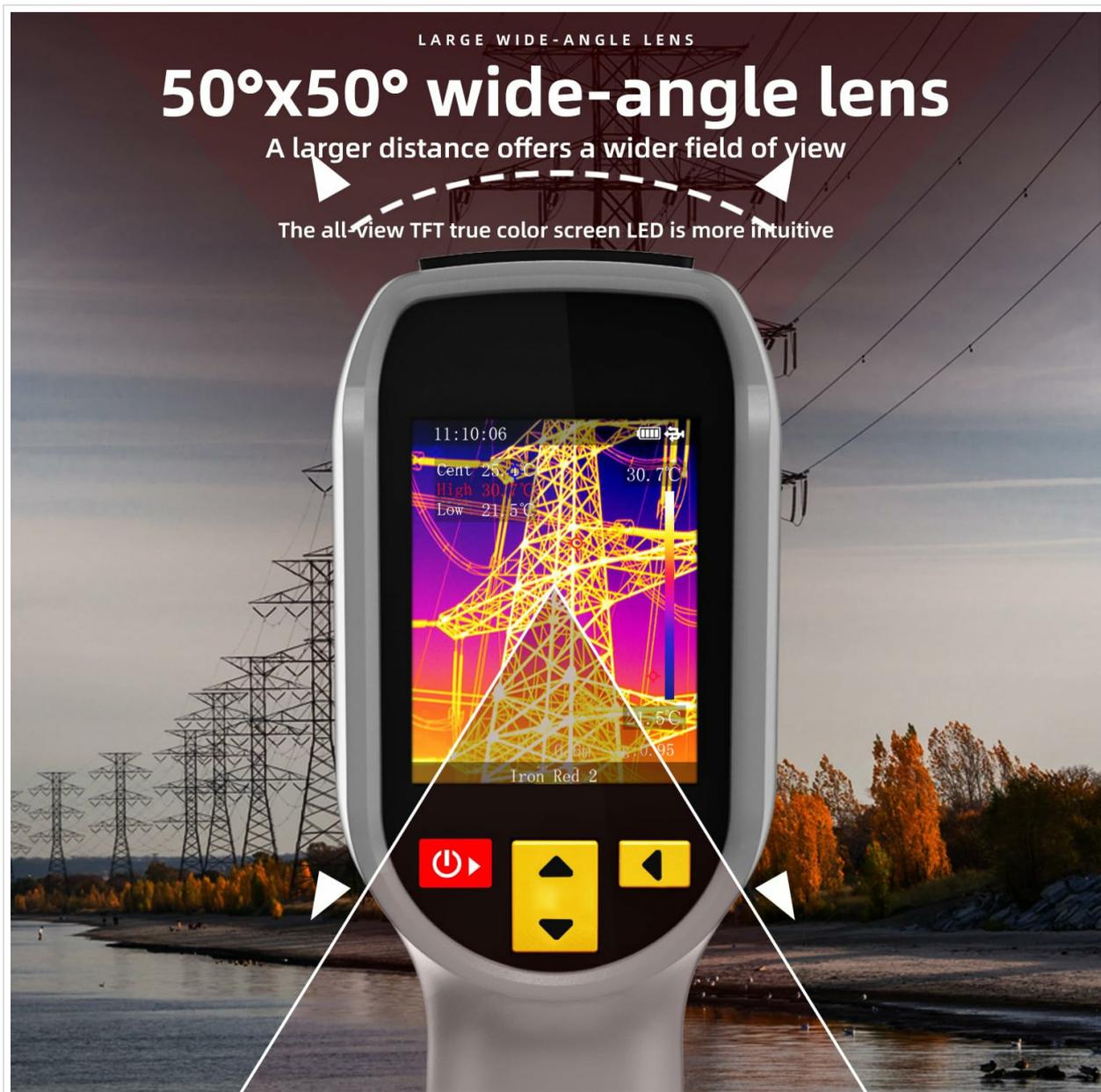


Figure 4.5: Wide-Angle Lens. This image illustrates the benefit of the 50°x50° wide-angle lens, providing a broader field of view for comprehensive thermal inspection, such as power lines.

5. MAINTENANCE

5.1 Cleaning the Device

Regularly clean the camera body with a soft, dry cloth. For the lens, use a specialized lens cleaning cloth and solution to avoid scratches. Do not use abrasive cleaners or solvents.

5.2 Storage

Store the camera in a cool, dry place away from direct sunlight and extreme temperatures. Ensure the battery is partially charged if storing for extended periods.

5.3 Durability

The camera features a high-quality double injection molded casing, making it sturdy, wear-resistant, and durable. It has an IP54 protection level and is designed to withstand drops from up to 1.5 meters.

The body is sturdy wear-resistant, and durable

High-quality double injection molded casing
Comfortable to the touch



Figure 5.1: Durable Construction. This image highlights the sturdy, wear-resistant, and durable body of the BSIDE HX2, featuring a high-quality double injection molded casing for comfortable handling and enhanced protection, including IP54 rating and 1.5m drop resistance.

6. TROUBLESHOOTING

This section addresses common issues you might encounter with your BSIDE HX2 thermal imaging camera.

- **Device not powering on:** Ensure the battery is charged. Connect to a power source and try again. If the issue persists, contact support.
- **Image appears blurry or unclear:** Clean the lens with a soft, lint-free cloth. Ensure the focus is adjusted correctly if your model supports manual focus.
- **Inaccurate temperature readings:** Verify the emissivity setting is appropriate for the material being measured. Ensure the measurement distance is within the recommended range.
- **Cannot export data:** Ensure the USB cable is securely connected to both the camera and the computer. Check if the camera is in data transfer mode (if applicable).

320*240 resolution [HX4]

It can be measured at night! No faults are overlooked.



15 pseudo-color modes

Temperature measurement range: -20°C to 550°C

2500mAh rechargeable lithium battery

Three preview modes: thermal imaging, fusion, and visible light

Temperature measurement display: Center point temperature measurement, high and low temperature tracking

Figure 6.1: Night Measurement Capability. This image emphasizes the camera's ability to measure effectively at night, ensuring no faults are overlooked. It also highlights the 320*240 resolution, 15 pseudo-color modes, -20°C to 550°C temperature measurement range, 2500mAh rechargeable lithium battery, and three preview modes: thermal imaging, fusion, and visible light.

7. SPECIFICATIONS

Manufacturer	BSIDE
Model Number	HX2
Product Dimensions (L x W x H)	5.94 x 7.74 x 19.34 cm
Item Weight	280 Grams
Battery Type	1 Lithium-ion (included)
Thermal Resolution	320 x 240 pixels
Temperature Range	-4°F to 1022°F (-20°C to 550°C)

Frame Rate	25 Hz
Memory	Built-in 4GB (approx. 26,000 BMP images)
Protection Level	IP54
Drop Resistance	1.5 meters

8. WARRANTY AND SUPPORT

Information regarding specific warranty terms and availability of spare parts is not provided in the product details. For technical support or service inquiries, please refer to the contact information provided with your purchase or visit the official BSIDE website.