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Walfront WALFRONT2ae45v03gr

Walfront USB Camera Module Instruction Manual

Model: WALFRONT2ae45v03gr

1. PRODUCT OVERVIEW

The Walfront USB Camera Module is a compact, high-resolution imaging device designed for various applications. It features a 3-megapixel OV3660 sensor, providing clear images with a 2048 x 1536 resolution at 15 frames per second. Its 110° field of view allows for a broad perspective. The module offers stable USB 2.0 connectivity, is driver-free, and supports mobile OTG for convenient use across multiple operating systems.

Package Contents

- 2 x Camera Module
- 2 x USB Cable

110° USB Camera Module

The output is USB2.0 which transmission connection is stable
USB driver-free, support mobile OTG, the lens is replaceable



Image 1.1: Walfront USB Camera Module connected to its USB cable.

2. SETUP INSTRUCTIONS

Follow these steps to set up your Walfront USB Camera Module:

1. **Connect the USB Cable:** Insert the small connector of the provided USB cable into the camera module's port.
2. **Connect to Device:** Plug the standard USB-A end of the cable into an available USB 2.0 port on your computer or compatible mobile device (with OTG support).
3. **System Recognition:** The module is driver-free and should be automatically recognized by supported operating systems, including WinXP, Windows 7/8/10, OSX, Linux, and Android. No additional driver installation is typically required.
4. **Access Camera Feed:** Use appropriate camera software or applications on your device to access the video feed from the module.



Image 2.1: The camera module with its attached USB cable, illustrating the connection method.

3. OPERATING THE CAMERA MODULE

Once connected and recognized by your system, the Walfront USB Camera Module can be operated through standard camera applications. The module provides a 2048 x 1536 resolution at 15 frames per second, suitable for various imaging tasks. Its 110° field of view captures a wide area.

Typical Applications

- **Robotics:** Integration into robotic systems for vision and navigation.
- **Security Cameras:** Use in compact surveillance setups.
- **Video Conferencing:** As an embedded camera for communication.
- **ATM Machines:** For monitoring or user interaction.



15fps USB Camera Module

USB driver-free, support mobile OTG,
the lens is replaceable



Image 3.1: Visual examples of the camera module's diverse applications.

4. MAINTENANCE

To ensure the longevity and optimal performance of your camera module, observe the following maintenance guidelines:

- **Cleaning:** Gently wipe the lens and module surface with a soft, dry, lint-free cloth. Avoid using harsh chemicals or abrasive materials.
- **Storage:** Store the module in a cool, dry place away from direct sunlight and extreme temperatures.
- **Lens Replacement:** The lens on this module is replaceable. If replacement is necessary, ensure proper handling to avoid damaging the sensor or other components.
- **Handling:** Avoid dropping the module or subjecting it to strong impacts, as this can damage internal components.



Image 4.1: Detailed view of the camera module's replaceable lens.

5. TROUBLESHOOTING

If you encounter issues with your Walfront USB Camera Module, consider the following troubleshooting steps:

- **No Image/Device Not Recognized:**

- Ensure the USB cable is securely connected to both the module and the host device.
- Try connecting the module to a different USB port or a different host device to rule out port or device issues.
- Verify that your operating system is supported (WinXP, Windows 7/8/10, OSX, Linux, Android).
- Check if other USB devices function correctly on the same port.

- **Poor Image Quality:**

- Ensure the lens is clean and free from dust or smudges.
- Check the lighting conditions in the environment.

- Confirm that your camera application is set to the highest available resolution (2048 x 1536).

- **Intermittent Connection:**

- Ensure the USB cable is not damaged or kinked. Try using a different USB cable if available.
- Avoid excessive movement of the module or cable during operation.

6. SPECIFICATIONS

Detailed technical specifications for the Walfront USB Camera Module:

Feature	Specification
Item Type	Camera Module
Pixels	3 Million
Product Size	Approx. 30 x 25 x 14mm / 1.2 x 1 x 0.6in
Product Chip	OV3660 (1/5)
Maximum Resolution	2048 x 1536 at 15fps
Field of View (FOV)	110°
Output Interface	USB2.0
Supported Systems	WinXP / Windows 7/8/10 / OSX / Linux / Android
Connectivity Technology	USB
Special Feature	Adjustable, Driver-free, OTG Support, Replaceable Lens
Compatible Devices	Laptop, Mobile Devices (with OTG)
Recommended Uses	Indoor/Outdoor
Item Weight	1.66 ounces (approx. 47g)

