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> **Opticon** /

> **Opticon OPN-2006 Barcode Reader User Manual**

Opticon OPN-2006

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Model: OPN-2006

1. INTRODUCTION

This manual provides comprehensive instructions for the safe and efficient use of your Opticon OPN-2006 Barcode Reader. Please read this manual thoroughly before operating the device and retain it for future reference. The OPN-2006 is a compact and versatile 1D laser barcode scanner designed for various data collection applications, featuring both wired USB and wireless Bluetooth connectivity.

2. PRODUCT OVERVIEW

The Opticon OPN-2006 is a portable barcode reader capable of scanning 1D barcodes, Composite Codes, MicroPDF417, and PDF417 (2D). It features a laser sensor for fast and accurate scanning, a 32-bit processor, and 0.096MB internal RAM for data storage.



Figure 1: Opticon OPN-2006 Barcode Reader. This image shows the compact, black and silver device, highlighting its ergonomic design for handheld use.

Key Features:

- **Sensor Type:** Laser
- **Supported Barcodes:** 1D, Composite Codes, MicroPDF417, PDF417 (2D)
- **Read Speed:** Up to 100 readings/second
- **Connectivity:** Bluetooth 3.0, USB 1.1
- **Internal Memory:** 0.096MB RAM
- **Battery:** 240mAh rechargeable battery

3. SETUP

3.1 Charging the Device

Before initial use, fully charge the OPN-2006. Connect the device to a USB power source (e.g., computer USB port or USB wall adapter) using the provided USB cable. The charging indicator light will illuminate during charging and change color or turn off when fully charged.

3.2 Connecting via Bluetooth

1. Ensure the OPN-2006 is powered on.
2. On your host device (e.g., laptop, tablet, smartphone), enable Bluetooth and search for available devices.
3. The OPN-2006 should appear in the list of discoverable devices, typically named 'OPN-2006' or similar.
4. Select the OPN-2006 to pair. If prompted for a PIN, refer to the device's default settings or the Opticon support website for specific instructions.
5. Once paired, the device is ready for wireless operation.

3.3 Connecting via USB

To connect the OPN-2006 via USB, simply plug the provided USB cable into the scanner and then into an available USB 1.1 (or higher) port on your computer. The device will typically be recognized as a Human Interface Device (HID) or a serial port, depending on its configuration. Drivers may be required for certain operating systems or specific modes; refer to the Opticon support website for driver downloads if necessary.

4. OPERATING INSTRUCTIONS

4.1 Scanning Barcodes

1. Ensure the OPN-2006 is connected to your host device (via Bluetooth or USB).
2. Point the scanner's laser aperture at the barcode you wish to read.
3. Press the scan button (often located on the top or front of the device).
4. A successful scan is typically indicated by an audible beep and/or a visual LED confirmation. The scanned data will be transmitted to your connected host device.

4.2 Data Transmission

In HID mode (common for Bluetooth and some USB connections), scanned data is transmitted as if typed on a keyboard. In serial port mode, data is sent via a virtual COM port, requiring compatible software on the host device to receive it.

4.3 Battery Status

The OPN-2006 is powered by an internal 240mAh battery. Monitor the battery indicator (if available) or

refer to your host device's Bluetooth settings for battery level. Recharge the device when the battery is low to ensure uninterrupted operation.

5. MAINTENANCE

5.1 Cleaning

To clean the OPN-2006, gently wipe the exterior with a soft, damp cloth. Do not use abrasive cleaners, solvents, or immerse the device in liquid. Ensure the laser aperture is free from dust and debris for optimal scanning performance.

5.2 Storage

Store the device in a cool, dry place away from direct sunlight and extreme temperatures. If storing for an extended period, ensure the battery is partially charged (around 50%) to prolong its lifespan.

6. TROUBLESHOOTING

Common Issues and Solutions:

- **Device not scanning:**
 - Ensure the device is powered on and fully charged.
 - Verify the barcode is clean and undamaged.
 - Check if the laser aperture is obstructed.
 - Confirm the device is properly connected (Bluetooth paired or USB plugged in).

- **Bluetooth connection issues:**
 - Ensure Bluetooth is enabled on both the scanner and the host device.
 - Unpair and re-pair the device.
 - Move the scanner closer to the host device to reduce interference.

- **No data transmitted to host:**
 - Verify the host application is active and ready to receive input.
 - Check the device's configuration for HID or serial mode settings.

Factory Reset:

If issues persist, a factory reset may resolve them. Refer to the Opticon support website or the device's quick start guide for specific barcode sequences or button combinations to perform a factory reset. *Note: A factory reset will erase all custom settings.*

7. SPECIFICATIONS

Feature	Specification
Model	OPN-2006
Sensor Type	Laser
Supported Barcodes	1D, Composite Codes, MicroPDF417, PDF417 (2D)
Read Speed (Max)	100 readings/second

Feature	Specification
Connectivity	Bluetooth 3.0, USB 1.1
Processor	32-bit
Internal RAM	0.096MB
Battery Capacity	240mAh
Power Source	Battery Powered
Compatible Devices	Desktop, Laptop
Item Weight	29 Grams
Color	Black, Silver

8. WARRANTY AND SUPPORT

For warranty information, technical support, or further assistance, please visit the official Opticon website or contact your local Opticon distributor. Keep your purchase receipt as proof of purchase for warranty claims.
