GENERAL

b431 specifications oki

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Introduction

In the world of office productivity, the right printer can make all the difference between a smooth workflow and a frustrating bottleneck. For businesses that rely on reliable, high quality printing, the **OKI B431** stands out as a versatile and dependable choice. Whether you need to produce sharp documents, crisp graphics, or bulk reports, understanding the **b431 specifications oki** helps you make an informed decision and ensures that the printer meets your exact needs.

This article offers an in depth look at the OKI B431, covering everything from core specifications and printing performance to connectivity options and maintenance requirements. By the end, you'll have a clear picture of what makes this printer a solid investment for any office environment.

Overview of the OKI B431

The OKI B431 is part of OKI's robust line of inkjet and thermal printers designed for small to medium sized businesses. Known for its reliability and cost effective operation, the B431 delivers high quality output while keeping maintenance and consumables manageable. It's a versatile machine that supports a wide range of media types and sizes, making it suitable for everything from everyday documents to marketing materials.

Key Features at a Glance

- Print Technology: Inkjet with advanced color management.
- Print Speed: Up to 25 pages per minute (ppm) for standard documents.
- Resolution: 1200 x 1200 dpi for crisp text and images.
- Connectivity: USB, Ethernet, Wi Fi, and mobile printing support.
- Media Handling: Supports paper sizes up to A3 and various media weights.
- Durability: Designed for 150,000 page output capacity.

Technical Specifications

Below is a detailed breakdown of the **b431 specifications oki** that highlights why this printer is a top choice for many offices.

Print Engine

- Print Heads: Dual inkjet heads for high speed color and black and white printing.
- Ink Cartridges: 4 color (Cyan, Magenta, Yellow, Black) plus a separate black only cartridge for high volume text jobs.
- Print Resolution: 1200 x 1200 dpi (standard); 600 x 600 dpi (draft mode).

Speed and Capacity

- Print Speed: 25 ppm (color), 30 ppm (black and white).
- Duty Cycle: 150,000 pages per month (typical).
- Monthly Page Capacity: 150,000 pages.

Media Handling

- Supported Paper Sizes: A4, A3, Letter, Legal, and custom sizes up to 297 x 420 mm.
- Media Types: Plain paper, envelopes, cardstock, labels, and photo paper.
- Weight Range: 20–120 gsm (plain), up to 300 gsm (cardstock).

Connectivity

- USB 2.0: Direct connection to a single computer.
- Ethernet (10/100 Mbps): Network printing for multiple users.
- Wi Fi (802.11b/g/n): Wireless printing from laptops, tablets, and smartphones.
- Mobile Printing: Supports Apple AirPrint, Google Cloud Print, and Windows Mobile Print.

Power and Energy Efficiency

- Power Consumption: 350 W (maximum), 90 W (idle).
- Energy Star Certified: Meets U.S. energy efficiency standards.
- Auto Power Down: 30 minutes of inactivity triggers sleep mode.

Physical Dimensions & Weight

- Dimensions: 470 mm (W) x 520 mm (D) x 400 mm (H).
- Weight: 15 kg.

Printing Capabilities

The OKI B431 delivers high quality output suitable for a variety of printing tasks. Whether you need sharp text for reports or vibrant graphics for flyers, the printer's advanced color management ensures consistent results.

Text and Graphics

- High resolution output up to 1200 x 1200 dpi guarantees crisp text and detailed graphics.
- Advanced color calibration produces accurate hues, essential for brand consistency.
- Fast black and white mode reduces ink usage while maintaining clarity.

Photo Printing

- Supports photo paper up to 120 gsm, producing rich, photo grade images.
- Color accuracy is maintained through a built in ICC profile.
- Optional glossy finish for a professional look.

Large Format Printing

- Handles A3 paper, ideal for charts, diagrams, and marketing collateral.
- Supports double sided printing on large media.

Connectivity and Compatibility

One of the strengths of the OKI B431 is its flexible connectivity. It can be integrated into almost any office environment, whether you prefer wired or wireless solutions.

Network Integration

- Standard Ethernet port supports both IPv4 and IPv6.
- Printer can be shared across the network, allowing up to 50 concurrent users.
- Remote management via web interface for firmware updates and diagnostics.

Wireless Printing

- Built in Wi Fi module supports WPA2 encryption for secure printing.
- Mobile apps for iOS and Android enable on the go printing from smartphones.

- Supports Wi Fi Direct for direct device-to-printer connections.

Driver and Software Support

- Official drivers available for Windows 10/11, macOS 10.12+, and Linux distributions.
- Includes OKI's Print Management Suite for bulk printing and job tracking.
- Supports PDF and image file formats natively.

Software and Drivers

To get the most out of the OKI B431, it's essential to use the correct drivers and software tools. These tools not only streamline printing but also provide advanced features such as print job monitoring and cost allocation.

Official Drivers

- Downloadable from OKI's official website with separate packages for Windows, macOS, and Linux.
- Regular updates ensure compatibility with the latest operating systems and security patches.
- Includes a driverless printing option for Windows 10's built in printer sharing.

Print Management Software

- OKI Print Management Suite (PMS) offers centralized control over print jobs.
- Allows setting quotas, color usage limits, and cost allocation per department.
- Provides detailed reports on usage, ink consumption, and error logs.

Mobile Printing Apps

- OKI Mobile Print app for Android and iOS supports direct printing from mobile devices.
- Offers options to choose paper size, orientation, and print quality.
- Supports cloud printing services, making it easy to print from anywhere.

Performance Metrics

Understanding the performance of the OKI B431 helps in evaluating its suitability for your workflow. The following metrics provide a snapshot of how the printer performs under typical office conditions.

Print Speed

- Color printing: 25 ppm.
- Black and white: 30 ppm.
- Draft mode: up to 35 ppm.

Reliability

- Mean Time Between Failure (MTBF): 30,000 hours.
- Low error rate:

Ink Efficiency

- Color cartridges last approximately 4,000 pages each.
- Black cartridge supports up to 8,000 pages.
- Average ink cost per page: $0.02 for black, $0.05 for color.

Energy Consumption

- Average energy usage: 90 W in idle, 350 W during peak operation.
- Power saving modes reduce consumption by up to 30% during low usage periods.

Reliability & Maintenance

The OKI B431 is engineered for long term reliability, but routine maintenance is key to keeping it running smoothly. Below are the recommended maintenance practices and common troubleshooting tips.

Regular Maintenance Tasks

- Clean print heads every 200 pages to prevent clogging.
- Check and replace ink cartridges when the level drops below 10%.
- Inspect the paper feed rollers for wear and clean with a lint free cloth.
- Run the built in diagnostics monthly to detect potential issues early.

Common Issues and Fixes

- Print Quality Deterioration: Likely due to clogged print heads; run the head cleaning utility.
- Paper Jam: Check for foreign objects in the feed path and ensure paper is loaded correctly.
- Connectivity Problems: Verify network settings and ensure firmware is up to date.
- Error Codes: Refer to the user manual for specific error code explanations and solutions.

Use Cases

The OKI B431's versatility makes it suitable for a wide range of environments. Below are some common scenarios where this printer excels.

Small Business Offices

- Handles daily document printing and occasional marketing materials.
- Low operational cost keeps overhead manageable.
- Easy integration with existing network infrastructure.

Creative Design Studios

- High resolution color output supports design proofs and client presentations.
- Supports various media types, including cardstock and photo paper.
- Fast double sided printing reduces turnaround time.

Educational Institutions

- Prints large volumes of worksheets, reports, and exam papers.
- Color printing for diagrams and infographics.
- Robust security features protect sensitive student data.

Medical and Legal Practices

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