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ACEMAGIC K1

ACEMAGIC K1 Mini PC User Manual

Model: K1 with AMD Ryzen 5 7430U

1. INTRODUCTION

The ACEMAGIC K1 Mini PC is a compact, high-performance computing solution designed for various tasks, from business applications and online education to light gaming and 4K streaming. Equipped with the AMD Ryzen 5 7430U processor and integrated AMD Radeon RX Vega 7 graphics, it delivers efficient performance and stunning visuals. This manual provides essential information for setting up, operating, maintaining, and troubleshooting your device.



Figure 1: ACEMAGIC K1 Mini PC Overview

2. PACKAGE CONTENTS

Please check the box for the following items:

- Mini PC Unit (x1)

- HDMI Cable (x1)
- VESA Mount Kit (x1)
- User Manual (x1)
- AC Adapter (x1)



Figure 2: Included Accessories

3. PRODUCT OVERVIEW

3.1. Front and Rear Panels

The ACEMAGIC K1 Mini PC features a variety of ports for extensive connectivity. Familiarize yourself with the port layout for optimal use.

ACEMAGIC

K1

高性能ミニPC



4K
ULTRAHD



4K UHD 3画面出力
HDMI + DP +Type-C

 **Windows 11 Pro**
複数OS対応



USB3.2*6
Type-A ポート



優れた放熱性能



512GB
Max 4TB対応



BT5.2



WiFi 6



16GB
Max 64GB対応



Type-C
(データ/映像/給電)

Figure 3: Front and Rear Port Layout

- **Front Ports:** Power Button, 3.5mm Audio Jack, 2x USB 3.2 Gen2 Type-A (10Gbps), 1x Type-C (Video Output/Power Delivery/Data)
- **Rear Ports:** DC IN, HDMI 2.0, DP 1.4, RJ45 LAN, 4x USB 3.2 Gen1 Type-A (5Gbps)



Figure 4: Detailed Port Diagram

3.2. Dimensions and Weight

The K1 Mini PC is designed for space-saving convenience:

- **Dimensions:** Approximately 12.8 x 12.8 x 4.1 cm
- **Weight:** Approximately 0.5 kg



Figure 5: Space-Saving Design and VESA Mounting Options

4. SETUP

4.1. Initial Setup

1. Connect the AC adapter to the DC IN port on the rear panel and plug it into a power outlet.
2. Connect your monitor(s) to the HDMI, DisplayPort, or Type-C video output ports.
3. Connect your keyboard and mouse to the available USB ports.
4. Press the power button on the front panel to turn on the Mini PC.
5. Follow the on-screen instructions to complete the Windows 11 Pro initial setup.

4.2. Multi-Display Setup

The ACEMAGIC K1 supports simultaneous 4K@60Hz display on up to three screens using a combination of HDMI 2.0, DisplayPort 1.4, and the Type-C port (which supports video output).

Your browser does not support the video tag.

Video 1: Demonstrating the ACEMAGIC K1 Mini PC's multi-display capabilities, showing three monitors connected and displaying different content simultaneously.



Figure 6: Triple 4K Display Output

5. OPERATING

5.1. Operating System

The ACEMAGIC K1 Mini PC comes with Windows 11 Pro pre-installed, allowing for immediate use upon setup. It also supports multiple operating systems, offering flexibility for advanced users.



Figure 7: Windows 11 Pro Pre-installed

5.2. Performance

Powered by the AMD Ryzen 5 7430U processor (6 cores/12 threads, up to 4.3GHz) and AMD Radeon RX Vega 7 graphics, the K1 Mini PC delivers robust performance for various applications. It handles multitasking, 4K streaming, light image/video editing, and casual gaming smoothly.

AMD Ryzen 5 7430U

新世代の AMD Ryzen 5 7430U は、6コア12スレッドの高い並列処理性能で、日常作業からマルチタスク、軽量クリエイティブまで快適にこなします。

6 コア数
12 スレッド数

4.3 GHz
最大ターボ周波数

Zen3
アーキテクチャー

16 MB
L3 キャッシュ

15-28 W
TDP

7 nm
リソグラフィ

Cinebench R23(シングルコア)

Ryzen 5 7430U **+4%**

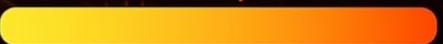


Ryzen 5 5600U 1372

Ryzen 5 5500U 1164

Cinebench R23(マルチコア)

Ryzen 5 7430U **+8%**



Ryzen 5 5600U 7551

Ryzen 5 5500U 7088

Figure 8: AMD Ryzen 5 7430U Processor



Figure 9: CPU Performance Benchmarks

5.3. Connectivity

The K1 Mini PC offers advanced connectivity options for a seamless experience:

- **WiFi 6:** Provides up to 3 times faster and more stable wireless communication compared to previous WiFi standards, ideal for online meetings and 4K streaming.
- **Bluetooth 5.2:** Enables quick and stable connections to wireless peripherals like keyboards, mice, and headphones.
- **Gigabit Wired LAN:** Ensures reliable and fast internet access for browsing and streaming.

高速・低遅延・安定 WiFi 6+Bluetooth 5.2+有線LAN

WiFi 6でWiFi 5の約3倍の速度と高い安定性を実現。Bluetooth 5.2との併用で、会議もゲームもラグなし快適。



Figure 10: WiFi 6 Connectivity



次世代通信-超高速・低遅延・安定 WiFi 6+Bluetooth 5.2+RJ45 有線LAN

次世代規格のWi-Fi 6とBluetooth 5.2に対応し、高速・低遅延で安定通信。
4K動画やオンライン会議も快適で、RJ45有線LAN搭載によりシビアな
場面でも安心。

WiFi 6	
デュアルバンド WiFi	2400Mbps
ワンセグ WiFi	240Mbps
867Mbps	

Figure 11: Next-Generation Network Connectivity

6. MAINTENANCE

6.1. Memory and Storage Expansion

The K1 Mini PC offers excellent expandability for memory and storage:

- **Memory:** Two SO-DIMM DDR4 slots support up to 64GB (32GB x 2) of RAM.
- **Storage:** Two M.2 2280 SSD slots support up to 4TB (2TB x 2) of storage. One slot supports PCIe 3.0x4 NVMe SSDs, and the other supports SATA SSDs only.

Your browser does not support the video tag.

Video 2: A step-by-step guide on how to open the ACEMAGIC K1 Mini PC and upgrade its RAM and SSD storage.

余裕のメモリ&ストレージ、将来も安心の拡張性

高速メモリ&大容量SSDで、起動もデータアクセスもサクサク快適。
メモリ/ストレージ増設対応で、長期利用でも安心です。



The image features a central black ACEMAGIC mini PC. Surrounding it are several floating windows: a Windows desktop, a code editor, a video player, a photo gallery, and a photo editing application. Below the PC are two orange icons representing memory and storage. The text at the bottom provides technical specifications for these components.

16GB DDR4 メモリ標準搭載
最大64GB (32GB×2) まで増設可能
メモリスロット×2、デュアルチャネル対応
DDR4-3200Mhz対応

512GB M.2 SSD標準搭載
最大4TB (2TB×2) まで増設可能
M.2 2280スロット×2
NVMe PCIe 3.0 x4 SSDも対応可能

Figure 12: Internal Components for Expansion



Figure 13: Memory and Storage Expansion Details

6.2. Cooling System

The K1 Mini PC features an upgraded, high-efficiency, and silent cooling system. It utilizes a bidirectional airflow design and dedicated structure to enhance cooling for CPU components, ensuring stable performance during prolonged use. The high-speed, silent fan and large-area fins efficiently dissipate heat, maintaining noise levels below 38dB for a comfortable user experience.



Figure 14: High-Efficiency Silent Cooling System

7. TROUBLESHOOTING

If you encounter any issues with your ACEMAGIC K1 Mini PC, please refer to the following common troubleshooting steps:

- **No Power:** Ensure the AC adapter is securely connected to both the Mini PC and a working power outlet. Check the power button for any damage.
- **No Display:** Verify that your monitor(s) are correctly connected to the Mini PC's video output ports and are powered on. Try different cables or ports if necessary.
- **Slow Performance:** Close unnecessary applications. Check for background processes consuming high resources. Ensure sufficient free storage space. Consider upgrading RAM or SSD if performance remains an issue (refer to Section 6.1).
- **Network Connectivity Issues:** For Wi-Fi, ensure the Wi-Fi adapter is enabled and you are connected to the correct network. For wired LAN, check the Ethernet cable connection and router status.

- **Peripheral Not Detected:** Ensure the peripheral is properly connected to the correct port. Try connecting it to a different port or another device to rule out a faulty peripheral.

For further assistance, please contact ACEMAGIC customer support.

8. SPECIFICATIONS

Feature	Specification
Brand	ACEMAGIC
Model Number	Kron Mini K1
Operating System	Windows 11 Pro
CPU Model	AMD Ryzen 5 7430U
CPU Speed	4.3 GHz (Max Turbo)
Processor Cores	6
Graphics Coprocessor	AMD Radeon Graphics (Integrated)
Installed RAM Size	16 GB DDR4
Max RAM Support	64 GB
RAM Memory Technology	SO-DIMM DDR4
Hard Disk Description	SSD
Hard Disk Interface	PCIe x 4
Storage Capacity	512 GB
Max Storage Support	4 TB
Video Output Interface	HDMI, DisplayPort, Type-C
Max Display Resolution	4K@60Hz
Wireless Type	Bluetooth, Wi-Fi (WiFi 6)
USB Ports	6
HDMI Ports	1
Power Consumption	28 Watts
Product Dimensions	12.8 x 12.8 x 4 cm
Product Weight	0.5 kg
GTIN (UPC)	647581994184

9. WARRANTY AND SUPPORT

The ACEMAGIC Mini PC comes with an 18-month manufacturer's warranty from the date of purchase. If you encounter any problems or have questions, please do not hesitate to contact our customer support.

9.1. How to Contact Support

You can reach our support team through your Amazon account:

1. Go to 'Account Services'.
2. Select 'Order History'.
3. Find your ACEMAGIC K1 Mini PC order.
4. Click on 'Seller'.
5. Select 'Ask a Question'.



Figure 15: ACEMAGIC Support Information