

CrowView *Note* Datasheet

14" Portable Monitor with Keyboard



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1 Product Information

1.1 Product Overview

CrowView Note is a 14-inch Full HD IPS portable monitor with an integrated keyboard, touchpad, speakers, and microphone, featuring an all-in-one design. It can connect with smartphones to display their desktops and can also be used as a monitor for computers, mini PCs, and single-board computers such as Raspberry Pi and Jetson Nano Developer Kits. The CrowView Note comes with a built-in 5000mAh battery, which can also charge smartphones, Raspberry Pi, and other devices. It is versatile and compatible with a wide range of devices, suitable for various scenarios.

Note:

- CrowView Note is a portable monitor **without CPU, RAM, HDD/SDD and Camera.**

1.2 Product Features

- 14-inch IPS panel with a resolution of 1920x1080 and 100% sRGB coverage.
- A fully functional USB Type-C port enables efficient data and audio/video transfer across devices, ensuring compatibility with PCs, smartphones, and more.
- An all-in-one integrated design simplifies your setup by incorporating a monitor, keyboard, touchpad, speakers, and battery, making it easy to operate, carry, and store.
- On-the-Go smartphone connectivity allows for a quick connection to

your phone, providing an immersive experience for your entertainment and work.

- Extensive Single Board Computer (SBC) compatibility, including support for Raspberry Pi, Nvidia Jetson Nano, Rock Pi, Orange Pi 4B, and Latte Panda.
- Supports a variety of operating systems, seamlessly connecting to various OS such as Windows, Mac, Chrome, Linux, Android, and gaming consoles like PS4/5 via a Type-C cable, without the need for drivers.
- Effortless system switching with the press of the F1 key, allowing you to switch systems through the full-featured Type-C and HD media signal connection.
- 5V/5A PD (Power Delivery) ensures stable power supply for any SBC operating at 5V.

1.3 Product Applications



Figure 1: CrowView Note Application Example

The CrowView Note is a portable display that combines a keyboard, touchpad, speakers, and microphone into a compact and easy-to-configure design. This device is particularly suitable for users of Raspberry Pi and is compatible with Android devices that support Samsung DEX desktop mode, such as the Galaxy S23 Ultra, as well as portable gaming PCs. It is not only well-suited for office environments but also fits well in studio settings, with the convenience of mobile working in mind.



Figure 2: CrowView Note running in Samsung Galaxy S23 Ultra

CrowView Note is equipped with a versatile Type-C port, which enables high-speed data transfer as well as the transmission of audio and video signals, compatible with a variety of devices including Phones, Laptops, Handheld Consoles, and Tablets, providing users with great convenience and flexibility.

Note:

- Only supports devices with **full-featured Type-C functionality**.

2 Product Exterior View



Figure 3: Rear View



Figure 4: Top View



Figure 5: Right Side View

3 Product Drawings

The exterior dimensions of the CrowView Note are shown in the figure below.



Figure 6:Dimension Schematic

4 User Operating Interface Overview

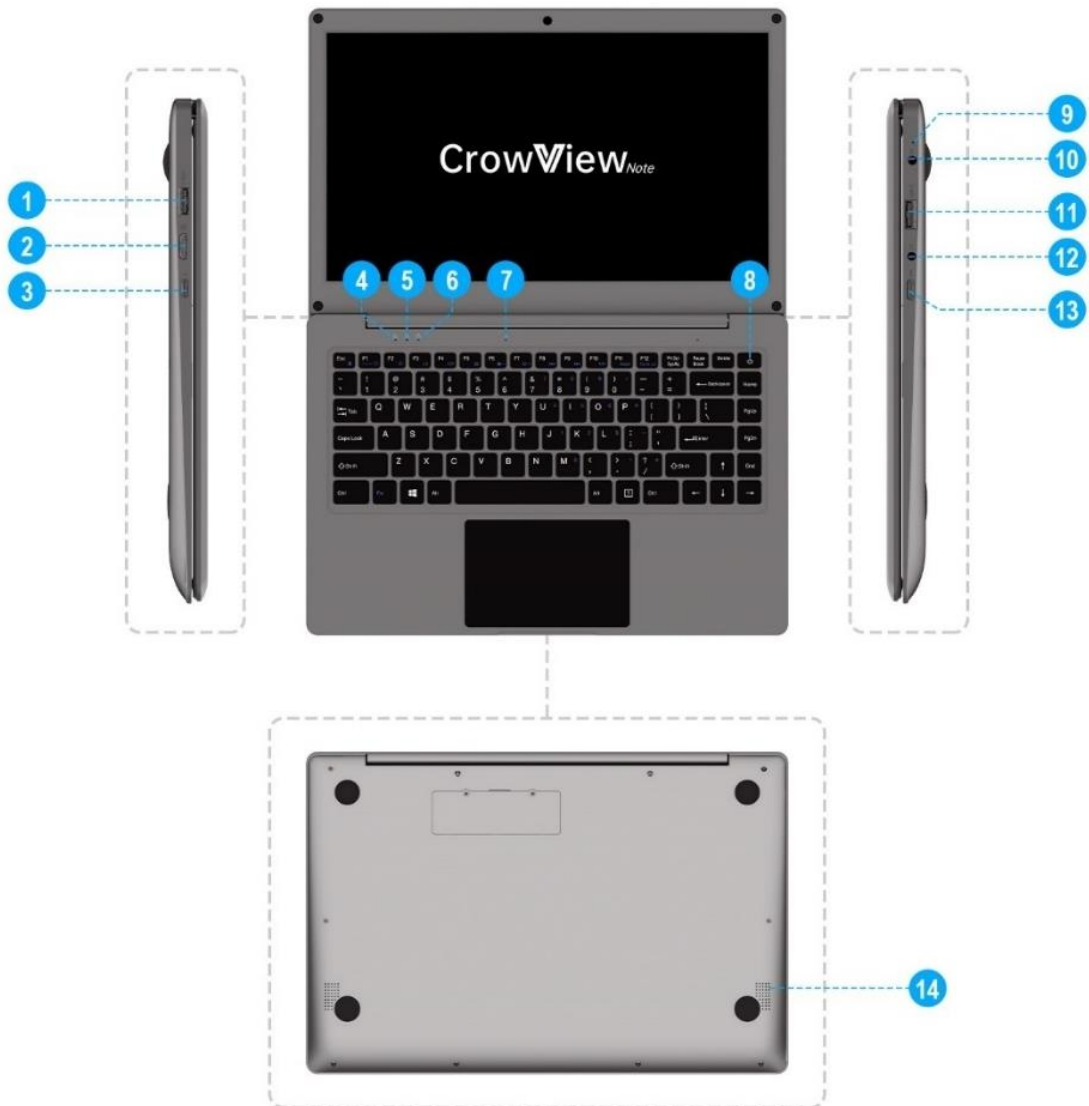


Figure 7: Interface Layout Diagram

4.1 Port Layout and Functions

No.	Item	Feature
1	USB-A	a→Connects to Type-C, downstream function, inputs signal b→Connects to HD, upstream function, outputs signal
2	Mini-HD	Transmits signals
3	Type-C	Supports 5V/5A output (PD protocol)
4	Status Indicator Light	Remains white when operating
5	Caps Lock Indicator	Turns white when activated
6	Num Lock Indicator	Turns white when activated
7	Microphone	Audio input
8	Power Button	Short press to power on, long press for 3 seconds to power off
9	Power Indicator Light	Remains red when charging
10	DC 3.5mm Jack	Power supply (12V/4A input)
11	USB-A	Connects peripherals
12	Audio Jack	Audio output, microphone input
13	Type-C	Full functionality (5V/3A output)
14	Speaker	Audio output

4.2 Indicator Light Functions

No.	Indicator Light	Status		Function Feature
1	DC Power Indicator	Red Light	Solid On	Power adapter is connected and power supply is normal.
2			Off	Power adapter is disconnected.
3	Power-On Indicator	White Light	Solid On	Device is powered on and working normally.
4			Off	Device is powered off.
5	Caps-Lock Indicator	White Light	Solid On	Caps-Lock function is activated, keyboard input is in uppercase letters.
6			Off	Caps-Lock function is off, keyboard input is in lowercase letters.
7	Num-Lock Indicator	White Light	Solid On	Num Lock function is activated, inputting numerical symbols.
8			Off	Num Lock function is off, no numerical symbols are output.

4.3 Shortcut Key Functions

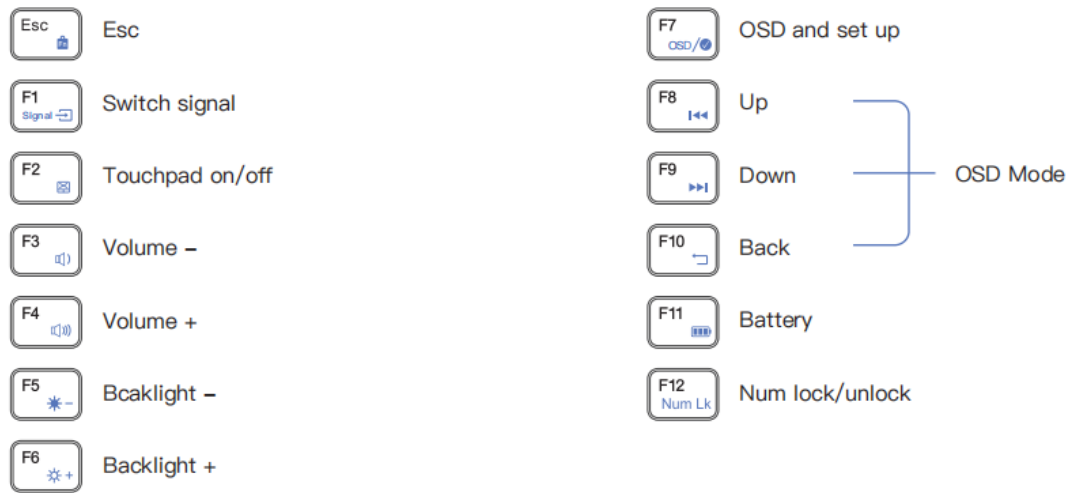




Figure 8:Shortcut Key Illustration

No.	Shortcut Key	Function Feature
1	F1	Switch Signal Channel
2	F2	Touchpad Enable
3	F3	Volume Down
4	F4	Volume Up
5	F5	Brightness Down
6	F6	Brightness Up
7	F7	OSD Menu
8	F8	OSD Page Up
9	F9	OSD Page Down
10	F10	OSD Back Key
11	F11	Battery Indicator Enable
12	F12	Num-Lock Function Locked and Unlocked

When Fn+Esc is pressed and the screen appears , which indicates that **the Fn shortcut key function is disabled**. In this case, we can use the traditional functions of F1~F12. To use the shortcut function of F1~F12, please press Fn+F1~F12. For example, if you press Fn+F4, the volume will

be amplified.

When Fn+Esc is pressed and the screen appears , **which indicates that the Fn shortcut key function is available.** In this case, we can use the shortcut functions of F1~F12. For example, if you press F4, the volume will be amplified. To use the traditional function of F1~F12, please press Fn+F1~F12.

5 Technical Specifications

5.1 Display Specification

No.	Item	Specification
1	Product Name	CrowView Note
2	Screen Size (Inches)	14 inches
3	Aspect Ratio	16:9
4	Screen Color	16,777,216 colors
5	Resolution	1920x1080 (FHD)
6	Refresh Rate	60Hz
7	Contrast Ratio	800:1
8	Color	100% sRGB
9	Color Gamut	72% NTSC
10	Color Accuracy	$\Delta E \leq 2$
11	Color Depth	6bit+2bit (FRC)
12	Brightness	300cd/m ²
13	Viewing Angle	178 degrees
14	Backlight Tone	Warm
15	Screen Type	IPS
16	Compatible Interfaces	HD/Type-C
17	Compatible Operating Systems	Windows, MAC, Linux, Android
18	Compatible Phones	Full-function Type-C interface
19	Compatible Devices	Android phones, laptops, Xbox, Nintendo Switch, PS4, PS5
20	Compatible Mainstream SBCs	Raspberry Pi series; (5, 4B, 3B, 3B+, Zero); Nvidia-Jetson-Nano development board; Rock-Pi; Orange Pi 4b; LattePanda V1
21	Speakers	8Ω/2W speakers * 2
22	Keyboard	US English keyboard/German keyboard

5.2 Physical Specifications

No.	Item	Specification	Units
1	Outer Dimensions	334*223*20	mm
2	Touch pad Dimensions	114*74	mm
3	Touch pad Color	Black	/
4	Product Color	Gray (PANTONE 8403C)	/
5	Weight	1200	g
6	Material	ABS+PC	/
7	Surface Finish	Spray Paint, Dark Gray	/

6 Electrical Characteristics

No.	Item	Specification
1	Battery Capacity	5000 mAh
2	Power Supply	12V-4A

6.1 Power Consumption

6.1.1 Power Consumption Without Battery Connection

No.	Item	Condition 1	Condition 2	Specification		Units
				Min	Max	
1	CrowView Note Maximum Power Consumption	Maximum Brightness, Maximum Volume, Playing Same Video	Connected to Raspberry Pi 5 (Working)	11.9	14.4	W
2			Connected to Jetson Nano (Working)	11.3	14	
3			Connected to MAC (MAC BOOKPRO-16) (Working)	9.6	11.6	
4	Without Battery, External Power Supply CrowView Note Standby Power Consumption (Sleep)	/	Connected to Raspberry Pi 5 (Working)	6.6	7.6	W
5			Connected to Jetson Nano (Working)	7.5	7.7	
6			Connected to MAC (MAC BOOKPRO-16) (Working)	5.9	9.5	
7	CrowView Note Standby Power Consumption (Naked Machine)	/	Power On	3.6	6.6	W
8			Black Screen Sleep	1.8	6.9	
9			Sleep	0.3	0.4	
10			Shutdown leakage current	/	0.002	

6.1.2 Maximum Input Power Consumption

No.	Item		Condition 1	Condition 2	Specification		Units
					Min	Max	
1	Battery Charging	CrowView Note Maximum Input	Maximum Brightness, Maximum Volume, Playing Same Video	Connected to Raspberry Pi 5 (Working)	24.6	28.2	W
2				Connected to Jetson Nano (Working)	26	29.1	
3				Connected to MAC (MAC BOOKPRO-16) (Working)	20.4	22.8	

6.1.3 Battery Charging and Discharging Time

No.	Item		Condition 1	Condition 2	Specification	Units
1	The Discharge Duration Of The Battery When Fully Charged	/	Maximum Brightness, Maximum Volume, Playing Same Video	Connected to Raspberry Pi 5 (Working)	2.5	H
2				Connected to Jetson Nano (Working)	2.4	
3	Battery Charging Time	Shutdown State	/		4	

6.2 Environmental Parameters

No.	Item	Symbol	Min	Max	Unit
1	Operating temperature	T _{OP}	-10	+50	°C
2	Storage temperature	T _{ST}	-30	+80	°C

7 Installation and Usage Instructions

Before using the device, please refer to the user manual for detailed instructions on its operation. Click here to download the complete user manual:

- [User Guide](#)

8 Certifications



9 Related Documents and Resources

- [Crowview Note](#)
- [Crowview Note adapter board](#)

10 Revision History

Date	Version	Release Notes
2025/2/6	V1.1	