

Liquid cooling workstation product technical specification

Liquid-Cooling WorkStation

Ray is Black Panther
RD-111S compact portable all liquid cooling workstation



The Thunder Black Diamond RD-111S is small in size and uses an innovative custom split full liquid cooling to easily handle single-threaded and multi-threaded applications for higher performance levels

Product features

Innovative heat dissipation solution

Innovative GPU and CPU split liquid cooling system releases extreme performance; no need for more fans and larger heat dissipation volume, effectively improving heat dissipation efficiency, measured full load noise is far lower than the same class of air cooling noise. Unique physical visual cooling system, with coolant maintenance interface

Full aluminum alloy body, top handle

The design adopts all-aluminum CNC anode process, and the mesh edge is processed accurately and smoothly to improve the silent ability of the whole machine; no screw is exposed, and the appearance is simple and smooth; the light body and the top handle design make it more portable

Enrich the extended functions and interfaces

The intelligent secondary screen displays the working status of the entire machine in real time, allowing convenient viewing of temperature, load and other information to improve work efficiency. The device features a rich port configuration, including a high-speed Thunderbolt 4 interface and multiple USB Type-C and USB Type-A ports, enabling easy connection to external devices for expanded application scenarios

Flexible configuration, strong performance

With a lightweight body, the RD-111S can be flexibly configured with Intel Core series processors and a Nvidia RTX high-performance graphics card for powerful computing and rendering capabilities

Compatible with ISV programs

The outstanding performance of RD-111S is perfectly adapted to many professional ISV applications in media creation, education, industrial design and other fields, with perfect performance experience to accelerate business efficiency

key parameter

- Support Intel processor
- Standard 1 GPU computing card (liquid cooling)
- Supports 2 DDR5 memory slots for up to 96GB
- Support NVMe M.2 SSD
- Supports PCIe 5.0x16 slots
- 12.5Gbps RJ45
- Standard 2 lightning 4 ports
- Support USB Type-A and Type-C interfaces

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Product technical specifications

processor	Supports the 14th generation Intel® Core K processor (liquid cooling)
internal storage	2 DDR5, memory slots, up to 96GB support, dual channel memory architecture
caliche	Support PCIe4x4 SSD NVMe M.2
GPU	Supports 1 GPU computing card (liquid cooling)
Expand slots	Supports 3 M.2
	1 PCIe 5.0 x 16 slot
External interface	1 DP port, 1 HDMI port
	2 lightning 4 ports (2 x USB Type-C®) compatible with USB4.0
	Supports 10 USB ports, including 6 USB 3.2 Type-A®, 1 USB 3.2 Type-C® (front), 2 USB 3.1 Type-A (front), and ESD protection function.
	12.5G network port, a set of audio input/output ports
Wireless, Bluetooth	Supports 2x2 Wi-Fi 6E (802.11 a/b/g/n/ac/ax), supports 2.4/5/6 GHz bands, compatible with Bluetooth v5.3
Computer case secondary screen	Built-in 5-inch color LCD screen
source	1200W Platinum power supply (power conversion rate 92%)
chassis	Full aluminum CNC anode process case with built-in top handle
Liquid cooling system	CPU and GPU customized liquid cooling system
operating system	Support Ubuntu, Windows 10/11 system
work environment	Working temperature range: 10°C -35°C (50° F-95° F) Non-operating temperature range: -40°C -70°C (-40° F-158° F) Working relative humidity range: 8%-90% (non-condensing) Non-working relative humidity range: 5%-95% (non-condensing)

application scenarios

- Video post-processing
- Graphic design
- Construction BIM
- Industrial CAD design
- AI-generated terminals