

# Liquid cooling workstation product technical specification

## Liquid-Cooling WorkStation

Ray is Black Panther  
RD-1120 single channel dual card full liquid cooling  
workstation



The Thunder Black Diamond RD-1120 single-channel dual-card platform uses an innovative customized split full liquid cooling system and is a practical equipment for content creation, media entertainment and AI reasoning

## Product features

### Innovative heat dissipation solution

Innovative GPU and CPU liquid cooling, giving full play to the ultimate performance of the whole machine. The measured wind noise at full load is far lower than that of air cooling in the same class. 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 processing is accurate and smooth to improve the quiet ability of the whole machine; no exposed screws, simple and smooth appearance; top handle design for more portable

### Flexible configuration, strong performance

The RD-1120 series can be flexibly configured with Intel Core processors and two Nvidia RTX graphics cards or Nvidia Professional graphics cards for powerful computing and rendering capabilities

### Rich interfaces

The body is rich in ports, carrying a large number of USB Type-C® interface and Thunderbolt 4 interface, which can easily and quickly connect external devices, transmit all kinds of content at high speed, and have a variety of usage scenarios

### Compatible with the ISV program

RD-1120 has excellent performance, and can run many professional applications in media, medical, financial, education, AI reasoning and other fields. It is perfectly compatible with many professional ISV applications, and provides perfect performance experience to accelerate business efficiency

### key parameter

- Support Intel processor
- Supports 4 DDR5 memory slots for up to 192 GB
- Support NVMe M.2 SSD
- Supports 2 GPU computing cards (liquid cooling)
- Supports 2 PCIe 5.0x16 slots
- 110Gbps/2.5Gbps RJ45
- Supports 2 lightning 4 ports
- Support USB Type-A and Type-C interfaces

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## Product technical specifications

product line	Black Diamond RD-1120
processor	The 14th generation Intel® Core K processor (liquid cooling module)
internal storage	Supports 4 DDR5 memory slots, up to 192GB, and supports dual-channel memory architecture
caliche	Supports 4 SSD solid state drives with NVMe M.2 ports:
GPU	Supports up to 2 GPU computing cards (liquid cooling modules)
Expand slots	2 PCIe 5.0 x 16 slots (supporting x 16 or x 8 / x 8 mode), 1 PCIe 4.0 x 4 slots
External interface	2 DP ports, 1 HDMI port 2 Thunderbolt 4 ports (compatible with USB4) 8 USB ports, supporting USB 3.2 Type-A* and USB 3.2 Type-C® 110G network port, 12.5G network port, 5 multimedia audio interfaces
Wireless, Bluetooth	Supports Wi-Fi 6E, supports 2x2 Wi-Fi 6E (802.11 a/b/g/n/ac/ax), supports 2.4/5/6GHz bands, compatible with Bluetooth v5.3
source	1700W gold power supply
chassis	Full aluminum CNC anode process chassis with front screen
Liquid cooling system	CPU and GPU customized liquid cooling system
operating system	Support Ubuntu windows 10/11/server 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

- Small-scale AI scientific computing
- Industrial CAD design
- Scientific data analysis
- Graphic design
- Construction BIM
- Video post-processing