



# IN175 Fully Rugged Laptop

The Ultimate Industrial-Grade  
Expandable Mobile Workstation

## Core Configuration Highlights

- **"Sunlight Readable" Display:**  
17.3-inch optically bonded display with 800 nits peak brightness, ensuring clear visibility under intense outdoor sunlight; optional capacitive multitouch for flexible operation.
- **"AI Empowered" Processor**  
Equipped with 10th Gen Intel® Core™ i7 processors featuring an integrated AI engine to intelligently accelerate multitasking and AI applications.
- **"Professional Graphics" Performance:**  
Powered by NVIDIA® GeForce RTX™ 4060 GPU 8GB, smoothly handling professional scenarios like 3D modeling and video rendering.
- **"All-day" Battery Life:**  
Dual battery system with hot-swappable main battery, enabling uninterrupted power supply and eliminating range anxiety.
- **"Infinite Expansion" Modular Design:**  
Innovative docking station and modular interface design, the product supports optional on-demand expansion (including HDD, 5G modules, etc.), enabling users to build a highly customized workstation.
- **"Rugged Input" Keyboard:**  
IP66-rated waterproof LED backlit membrane keyboard with a fully sealed structure and FN shortcuts, allowing stress-free operation in low-light environments.



Application scenarios

# IN175 Specifications

Operating System Windows 10 / Windows 11

**CPU** Intel® Core™ i7-10750H Processor (12M Cache, up to 5.00 GHz) FC-BGA14F, Tray Processor Base Frequency 2.60 GHz

**GPU** Intel® UHD Graphics for 10th Gen Intel® Processors  
Optional NVIDIA® GeForce RTX™ 4060 GPU 8GB

**Memory** RAM 16GB (SO-DIMM\*2)  
Optional: 8GB /16G/32G/64G/128G(Max)

**Storage** SSD1: 1TB, optional 128GB/256GB/2TB NVMe  
SSD2: 1TB, optional 128GB/256GB/2TB NVMe (optional GPS module)  
Storage 3/4: 2.5-inch SATA SSD, 128GB/256GB/1TB/4TB x2

**Display** 15.6" FHD (1920x1080)  
800 nits sunlight readable display with optical bonding, supports capacitive multi-touch screen

**Keyboard** Waterproof LED backlit membrane keyboard with FN shortcut functions

**Communications** 1000M Ethernet  
Intel® Wi-Fi 6 802.11ax (removable)  
Bluetooth (v5.2) (removable)  
4G LTE mobile broadband (removable)  
Standard precision GNSS(GPS、GLONASS、Galileo) (On board)

**I/O Interfaces** USB 3.0 port \* 4  
10/100/1000 Ethernet (RJ45) \* 2  
DB2 (RS232/RS422/485) \*1(choose by BIOS)  
DB1 (RS232)\*1  
HDMI 2.1 port (type A)\*1  
DC-In jack\*1  
SIM Card\*1  
3.5mm headphone/microphone jack\*1  
Grounding Post\*1  
Custom aviation connector \*1

**Power** AC adapter : 100-240V, 50Hz-60Hz, 183W  
Main battery capacity : 155Wh, (pluggable) optional 184.3Wh (work in -40°C)  
Auxiliary battery capacity : 13Wh (non-removable)

**Environment** Temperature:  
- Operating: -20°C to 55°C (Customizable: -40°C to 55°C)  
- Storage: -40°C to 70°C(Customizable: -50°C to 70°C)  
Humidity:5%- 95% RH, non-condensing

**Dimension (W x D x H) & Weight** 445mm\*326.8mm\*46.5mm,  
Mg-al material 4.5kg

## Chassis Characteristics

- **"Lightweight & Rugged" Build:** Magnesium-aluminum alloy unibody construction; a lightweight design at only 4.5kg that balances portability with durability.
- **"All-Scenario" Certifications:**
  - o Designed to meet MIL-STD-810H requirements (24 test items), including resistance to high/low temperature, humidity, vibration, drop, salt mist, and mold.
  - o Designed to meet MIL-STD-461G requirements for electromagnetic compatibility.
- IP66 dust and water resistance, fearless against extreme environmental challenges.

## Product Positioning

Crafted for professional domains such as outdoor exploration, industrial fieldwork, emergency response, and specialized fields, redefining the performance and reliability boundaries of mobile workstations.

