



## FEATURES

- Dual 13.3" Full HD Touchscreens (1920 x 1080)
- Intel® Core™ (Ultra 5 Processor 125H / Ultra 7 Processor 155H)
- **Optional** NVIDIA® GEFORCE RTX™ 4060 GPU
- Support Windows 11 or Linux OS
- IP65 Water & Dust Protection
- 3ft Drop / Shock Protection (MIL-STD-810H)
- Sunlight-Readable Anti-Glare Display
- Up to 96GB RAM and 4TB SSD Storage
- Supports Multiple I/O
- Programmable Joystick, Customizable Rotary Switch, and Buttons
- Robust connectivity with Wi-Fi 6E, Bluetooth 5.2, u-blox GPS, and **optional** internal or external RF modules for tactical and UAV applications.

*Note: The LAP-130 is available for custom projects only and is not sold in small quantities.*

The LAP-130 Rugged Dual-Screen Laptop is engineered for the toughest environments, featuring dual 13.3" Full HD anti-glare touchscreens with glove and wet-touch capability for seamless operation in the field. Powered by cutting-edge Intel® Core™ (Ultra 5 Processor 125H / Ultra 7 Processor 155H) with up to 16 cores, alongside an optional NVIDIA® GeForce RTX™ 4060 GPU, it delivers exceptional performance for edge AI, data-intensive tasks, and mission-critical workloads. Built to exceed IP65 and MIL-STD-810H standards, the LAP-130 offers superior resistance to water, dust, drops, shocks, and extreme temperatures. With up to 96GB DDR5 RAM, 4TB high-speed SSD storage, and a wide array of MIL-spec I/O ports, it supports versatile connectivity and expansion. Compatible with Windows 11 and Linux, and equipped with customizable internal and external RF modules, this rugged dual-screen laptop ensures reliable communication and connectivity in the most demanding operational environments.

## SPECIFICATIONS

### RUGGEDNESS

|                  |                                                                   |
|------------------|-------------------------------------------------------------------|
| IP Rating        | IP65                                                              |
| Drop Rating      | MIL-STD-810H, 3ft drop to plywood                                 |
| Shock Rating     | MIL-STD-810H, Method 516.6, Procedure I – 40g / 11ms              |
| Vibration Rating | MIL-STD-810H, Method 514.6, Procedure I<br>Categories 4 / 20 / 24 |
| ESD Protection   | 8kV Contact, 15kV Air                                             |

### SYSTEM

|           |                                                                                                                                                                    |
|-----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Processor | Intel® Core™ Ultra 5 125H,<br>14 Cores / 18 Threads, 3.6GHz, 18MB Cache<br><b>Optional:</b> Intel® Core™ Ultra 7 155H<br>16 Cores / 22 Threads, 3.8GHz, 24MB Cache |
| Graphics  | Integrated Intel® Arc™ Graphics GPU<br><b>Optional:</b> NVIDIA® GeForce RTX™ 4060 GPU                                                                              |
| Memory    | DDR5 – 16GB <b>Optional:</b> 8GB / 32GB / 64GB / 96GB                                                                                                              |
| Storage   | M.2 SSD – 256GB <b>Optional:</b> 512GB / 1TB / 2TB / 4TB                                                                                                           |
| OS        | Windows 11 / Linux                                                                                                                                                 |

### DISPLAY

|             |                                                                                                                                                                                                    |
|-------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Screen      | 2 x 13.3" Anti-glare Screens                                                                                                                                                                       |
| Resolution  | 1920 x 1080 Full HD                                                                                                                                                                                |
| Brightness  | 500 nits <b>Optional:</b> 1000 nits                                                                                                                                                                |
| Touchscreen | 10-Point Capacitive Multi-Touch with Auto-Sensing<br>Supports Glove and Wet Touch<br>Chemically Hardened Glass<br>Support Anti-glare (AG) coating<br><b>Optional:</b> Anti-reflective (AR) coating |

### MECHANICAL

|                  |                                                                                               |
|------------------|-----------------------------------------------------------------------------------------------|
| Material & Color | CNC-machined aerospace-grade aluminum chassis<br>Color <b>Options:</b> OD Green / Matte Black |
| Dimensions       | 425 x 293 x 60mm (±2mm), excluding footpads & handle                                          |
| Weight           | ≤ 7.0Kg                                                                                       |

### POWER

|            |                                                        |
|------------|--------------------------------------------------------|
| AC Adapter | 19V, 7.89A DC-IN with Aviation Connector               |
| Battery    | 11V, 10,545mAh, 116Wh Lithium-ion Rechargeable Battery |

### I/O INTERFACE

|                    |                                                                                                                                                        |
|--------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|
| Mouse Input        | Touchpad                                                                                                                                               |
| Joystick Control   | 3 x Dual-axis thumb omnidirectional joysticks                                                                                                          |
| Rotary Switch      | MIL-Spec 5-way selector switch (GPIO interface, SDK & sample code included)                                                                            |
| Ports              | 3 x USB 3.0<br>1 x USB 2.0<br>2 x RJ45 (1000M)<br>1 x HDMI<br>2 x COM Ports (RS232/422/485)<br>1 x TF Card Slot<br>1 x Headphone/Microphone Combo Jack |
| Buttons & Controls | Power On/Off<br>Brightness + / -<br>Volume + / -<br>Up to 20 Programmable Buttons                                                                      |
| Indicators         | Power, Battery, HDD Indicator                                                                                                                          |

### COMMUNICATIONS

|                               |                                                                                                                |
|-------------------------------|----------------------------------------------------------------------------------------------------------------|
| Wi-Fi                         | Intel® AX210 Module, Supports Wi-Fi 6E<br>(802.11 a/b/g/n/ac/ax) on 2.4GHz & 5GHz bands                        |
| Bluetooth                     | Bluetooth® 5.2                                                                                                 |
| GNSS                          | U-blox GPS Module                                                                                              |
| RF Module ( <b>Optional</b> ) | Built - in or external RF module for UAV Ground Control, Tactical Communications, and Surveillance Application |

### ENVIRONMENTAL

|              |                                                 |
|--------------|-------------------------------------------------|
| Temperature: |                                                 |
| - Operation  | -20°C to 55°C ( <b>Optional:</b> -40°C to 55°C) |
| - Storage    | -50°C to 60°C                                   |

## DIMENSIONS AND SYSTEM LAYOUT



Internal or External RF Modules for UAV Ground Control, Tactical Communications, and Surveillance Application



Internal RF Module



External RF Module

