



L A P T O P S

## Raider GE78 HX 13V

RAIDER GE78HX 13VH-044HK

## Specification

<b>CPU</b>	13th Gen Intel® Core™ i7-13700H processor 16 cores (8 P-cores + 8 E-cores), Max Turbo Frequency 5.0 GHz
<b>Operating Systems</b>	Windows 11 Home (MSI recommends Windows 11 Pro for business.)
<b>Display</b>	17" QHD+(2560x1600), 240Hz Refresh Rate, IPS-Level, 100% DCI-P3(Typical)
<b>Chipset</b>	Intel® HM770
<b>Discrete Graphics</b>	NVIDIA® GeForce RTX™ 4080 Laptop GPU Up to 2280MHz Boost Clock 175W Maximum Graphics Power with Dynamic Boost. *May vary by scenario *Full-Power GPU Design
<b>Video Memory</b>	12GB GDDR6
<b>CPU and GPU Combined Power</b>	Max. 250W CPU-GPU Power with MSI OverBoost Technology. *OverBoost Ultra Technology for i9-13980HX Only. *May vary by scenario
<b>Memory</b>	16GB*2, Up to DDR5-5600 *Vary by CPU and Memory combination
<b>Memory Slot and Max Capacity</b>	2 Slots, Max 64GB
<b>Storage</b>	2TB*1 NVMe SSD PCIe Gen4
<b>Storage Slot</b>	1x M.2 SSD slot (NVMe PCIe Gen4), 1x M.2 SSD slot (NVMe PCIe Gen5) Compatible
<b>Keyboard</b>	Per-Key RGB Keyboard by SteelSeries
<b>WebCam</b>	IR FHD type (30fps@1080p)
<b>Audio</b>	2x 2W Audio Speaker 4x 2W Audio Woofer Sound by Dynaudio, Nahimic 3 Audio Enhancer, Hi-Res Audio Ready
<b>Audio Port</b>	1x Mic-in/Headphone-out Combo Jack
<b>USB Ports</b>	1x Type-C (USB3.2 Gen2/ DP) 1x Type-C (USB/ DP/ Thunderbolt™ 4) 1x Type-C (USB3.2 Gen2 / DP) 1x Type-C (USB / DP / Thunderbolt™ 4) 1x Type-C (USB3.2 Gen2 / DP) with PD charging 1x Type-A USB3.2 Gen1 1x Type-A USB3.2 Gen2 1x Type-C (USB3.2 Gen2 / DisplayPort™)
<b>Video Ports</b>	1x HDMI™ 2.1 (8K @ 60Hz / 4K @ 120Hz)
<b>Card Reader</b>	1x SD Express
<b>LAN</b>	Intel® Killer™ Ethernet E3100 2.5 Gbps
<b>Wi-Fi/ Bluetooth</b>	Intel® Killer™ Wi-Fi 6E AX1690, Bluetooth v5.3
<b>Security</b>	Firmware Trusted Platform Module(fTPM) 2.0, Webcam Shutter
<b>AC Adapter</b>	330W Adaptor
<b>Battery</b>	4-Cell 99.9 Whrs
<b>Dimension (WXDXH)</b>	380 x 298 x 23 mm
<b>Weight (W/ Battery)</b>	3.1 kg
<b>Chassis Color</b>	Black
<b>Certification</b>	Meta Ready
<b>Warranty</b>	2 years limited warranty
<b>Xbox Game Pass</b>	One month of PC Game Pass *Spec may vary by model. Please refer to the final spec of the product purchased for Xbox Game Pass pre-installed details.