



Rugged L&Aser™ Module

Agriculture's first purpose-built laser for weeding & thinning crops. No labor. No chemical herbicides. It's patent-pending technology in a rugged, lightweight, and low-cost module for the entire industry.



**Technology You Wouldn't See
on your GrandDad's Farm**



The end of chemical herbicides

Rugged L&Aser™ Module

Proprietary Hardware

Laser Source	Proprietary L&Aser™ Cube w/Integrated Optics (Diode Type, 4XXnm Blue)
Laser Driver	Proprietary L&Aser™ Pulsed Current Controlled, High Voltage (100V) Laser Driver
Laser Scanner	Proprietary L&Aser™ High Moments of Inertia Scanning Galvanometer
Scanner Driver	Proprietary L&Aser™ High Frequency Closed-Loop Controller (1kHz Command, >50kHz PID, <35ms Settling Time)

Patent Pending

Specifications

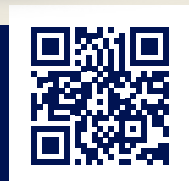
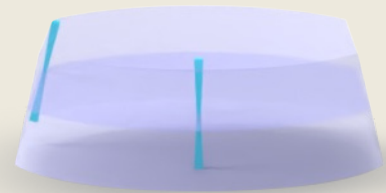
Compute	NVIDIA Jetson Orin AGX 32Gb
Module Status Display	240 x 280 Full-Color
USB	1x USB 3.0
Networking/Multi-Module Link	2x Gigabit Ethernet (10/100/1000)
Wireless Connectivity	2.4GHz Wifi, Bluetooth 5.0
Local Storage	1x NVMe M.2 Key M Slots
M12 Multi-Use Port	1*CAN,1*RS232, 1*RS485, 2*I2C, 2*UART, 2*GPIO, 2*SPI
Input Power	48VDC @ 19A
Operating Temperature	-25°C to 65°C
Toolbar/Robot Mounting	Flange Mount w/4X M10 pin holes
IP Rating	IP65
Weight	55lbs
3D Depth Mapping	160 x 60 ToF @ 50FPS
Imaging	2.35MP RGB 8mm @ 126FPS
Lighting	External Lighting Trigger via M12
Laser Working Area	14" x 15.5"
Laser Power Output	235W
Integrated Safety	Key Switch Disconnect, Optical Shutter Failsafe, Dedicated Safety Circuit & Controller
Cooling	500W/Module Required (External). Integrated liquid Cooling Loop w/10mm (3/8") 1X Female/1X Male Quick Disconnects



Software/Firmware

L&Aser™ System Firmware v2.0.1 (Included)
 AgCeption™ Crop Models (Various per EULA)
 AgCeption™ Target Tracker v1.0.2 (Included)
 AgCeption™ AWS IoT Portal (Subscription Required)

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Get in touch

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