

# BluEX



## LASER WEEDING TOOL



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# BluEX



## High Performance Laser Weeding Tool to eliminate your weed problems!

environmentally friendly and 100% sustainable

no pesticides or laborious manual work

compact and easily integrated tool  
to expand your machine

long-lasting and easy to maintain

super low power consumption  
for long working times



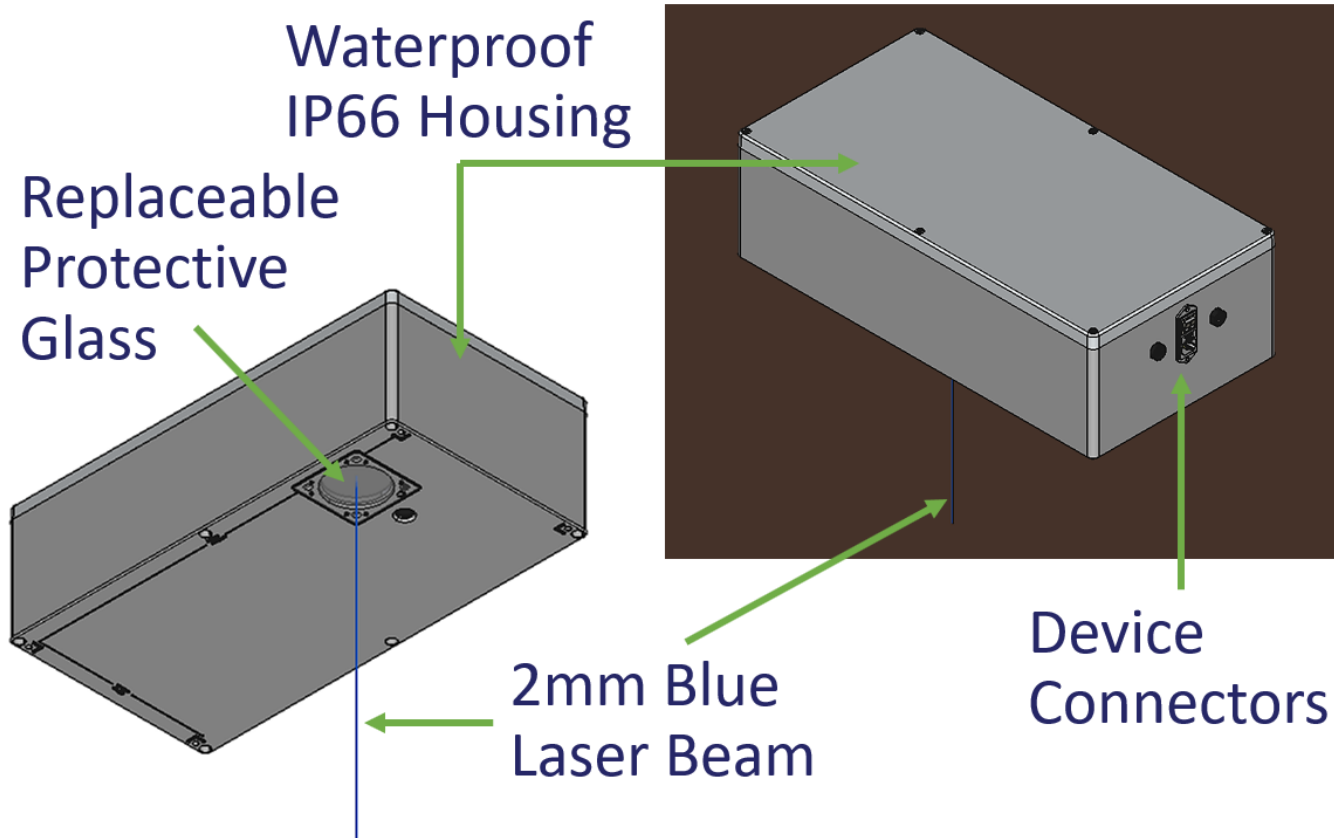
# BlueEX



- Blue High Power Diode Laser
- 100W Optical Output Power
- 2mm Spot Size
- High Speed Galvo Scanner
- Replaceable Protective Glass
- 48V Input Voltage
- CAN Bus Machine Interface
- USB and RS232 Interface for Maintenance
- Integrated Water Cooling
- Robust and Waterproof IP66 Housing  
(60 x 30 x 20cm, excl. cooling unit)



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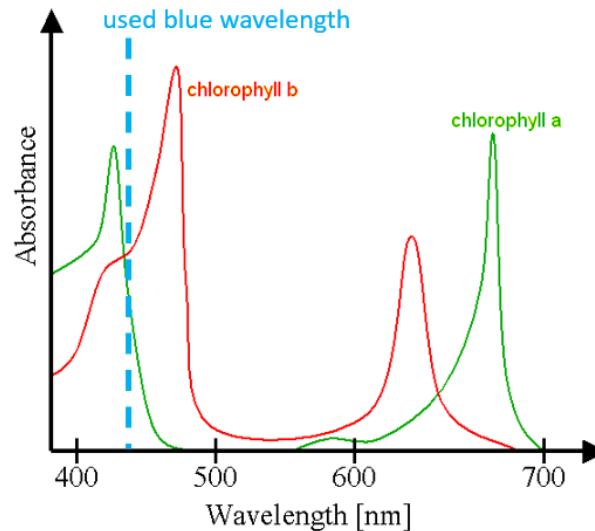


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## Why Blue?

- plants crave blue light
- high absorption by organic material (esp. chlorophyll) → very efficient
- cells of the plants are heated and thus destroyed

The plants don't have to be burnt away!



Absorption spectra of chlorophyll pigments a and b in the visible light range, © Wikimedia Commons

# BluEX

## Why Blue Diode Lasers?

- compact and light
- efficient
- long-lasting  
( $> 20.000\text{h}$ )
- fast pulsable  
(kills up to 35 weeds per second)
- DC-system with protective extra-low voltage  
are much safer ( $U < 120\text{V}$ )



100W Blue Diode Laser firing with 30ms pulse,  
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