Xiton Photonics

XHB-T

Xiton Harmonic Box
for TRUMPF TruMicro 5000 series picosecond lasers

General Description

The Xiton Harmonic Box (XHB) is an Add-on frequency conversion module for the TRUMPF TruMicro 5000 series picosecond laser systems. It is capable of converting the fundamental wavelength of the laser (1030nm) to the Green (515 nm) and to the UV (343 nm) each of them being emitted through a separate beam exit.

The sealed box is flanged to the laser head and controlled by a separate 19'' control unit either via RS232, TTL signals or, as an option, by a simple to use manual switchbox.

The device provides maximum flexibility for users being able to chose the most appropriate wavelength for different kinds of material being processed. The versatility makes the whole system especially interesting for process developments in application laboratories.

Features

- **Maximum Flexibility**
- **Sealed Housing**
- **High conversion efficiency**
- **Excellent beam profile**
- **24/7 continuous industrial use**

Product Specifications

Model	TM 5025			TM 5050			TM 5070		
Wavelength [nm]	1030	515	343	1030	515	343	1030	515	343
Output power [W]	> 23.5	> 15	> 5	> 47.5	> 30	> 10	> 95	> 60	> 15
M^2	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3
Output beam dia. [mm] *)	5	5	5	5	5	5	5	5	5

*) +/- 10%

Specifications are subject to change without notice due to product improvement.

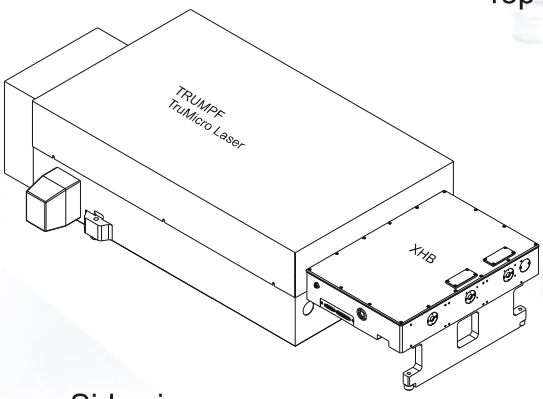
System Dimensions (L x W x H), weight

Conversion Module	396 x 530 x 251 mm^3	23 kg
Control Unit	484 x 484 x 134 mm^3	6.3 kg

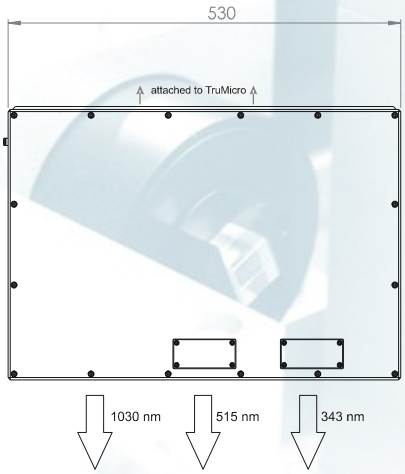
Electrical Characteristics

Operating voltage	85-264 VAC
Frequency	47 – 63 Hz
Power consumption	60 W typ.

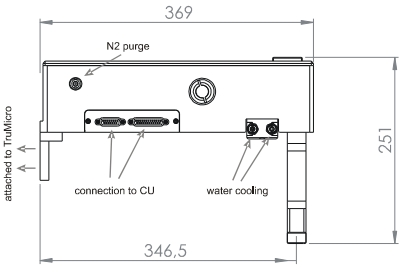
Dimensions Conversion Module



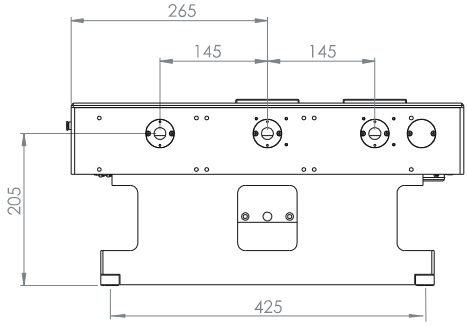
Top view



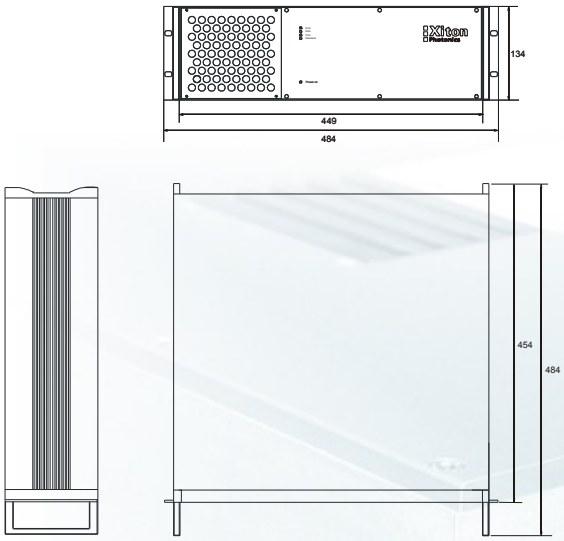
Side view



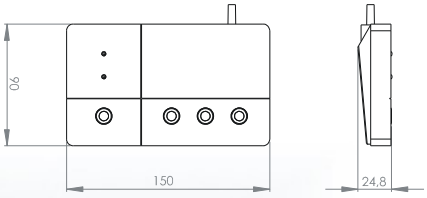
Front view



Dimensions Control Unit



Manual switchbox



Visible and/or invisible laser radiation. Avoid eye or skin exposure to direct or scattered radiation.

Class 4 laser (IEC-825)

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