

# MixxWave

By Oxxius

<b>Gamme</b>	Wavelength Combiners
<b>Title</b>	MixxWave with High Power lasers
<b>Description</b>	<p>The MixxWave is a laser combiner that merges several laser sources into a single, precisely aligned output for advanced multi-wavelength applications. Available in two versions ( L4Cc - up to 4 lasers and L6Cc - up to 6 lasers), it integrates wavelengths from 375 to 1064 nm from Oxxius or third-party laser sources, with output over a multimode fiber.</p> <p>Its compact, thermally stable design ensures reliability, easy maintenance, and full control through standalone software.</p> <p>Key features</p> <ul style="list-style-type: none"><li>• L4Cc: up to 4 lasers, 2 AOMs • L6Cc: up to 6 lasers, 2 AOMs</li><li>• Combines 375-1064 nm wavelengths</li><li>• Up to 2 fiber outputs</li><li>• Integrated electro-mechanical shutters on each port</li><li>• Extension modules for port switching</li></ul>



## General Specifications

<b>Power stability (baseplate temperature +/- 3K)</b>	
<b>Free space</b>	±1 % p-to-p
<b>PM + SM fiber coupled</b>	±2 % p-to-p
<b>Modulation</b>	
<b>Analog (0 - 5 V)</b>	DC - 1 MHz

<b>Rising time using digital modulation (TTL)</b>	$\leq 2 \text{ ns (LBX) / } \leq 150 \text{ ns (LCX with AOM)}$
<b>Power extinction ratio</b>	Infinite (LBX) / $\geq 40 \text{ dB (LCX with AOM)}$
<b>System specifications</b>	
<b>Operating temperature</b>	15°C to 40°C at baseplate
<b>Supply voltage, standard Plug and Play version</b>	100 - 240 V AC
<b>Supply voltage, OEM version</b>	24 V DC
<b>Warm-up time</b>	30 minutes
<b>Communication interfaces</b>	USB, Ethernet, dedicated electrical interface
<b>Software</b>	Full access from $\mu$ Manager, dedicated Oxixus software
<b>Typical weight</b>	L4Cc: 7 to 9 kg L6Cc: 10 to 12 kg
<b>Warranty</b>	24 months

## Available Options

<b>Option 1</b>	Multimode fiber coupling
<b>Option 2</b>	Heat management
<b>Option 3</b>	1:2 Beam switch