

# MixxWave

By Oxxius

<b>Product range</b>	Wavelength Combiners (L4Cc & L6Cc)
<b>Product name</b>	MixxWave with Single Frequency lasers
<p><b>Description</b></p> 	<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 outputs in free space or via optical fibers. 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 4 fiber or free-space outputs</li> <li>• Integrated electro-mechanical shutters on each port</li> <li>• Extension modules for port switching, power split, or AOTF modulation</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>	≤ 2 ns (LBX) / ≤ 150 ns (LCX with AOM)
<b>Power extinction ratio</b>	Infinite (LBX) / ≥ 40 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 μManager, dedicated Oxxius software
<b>Typical weight</b>	L4Cc: 7 to 9 kg L6Cc: 10 to 12 kg
<b>Warranty</b>	24 months

## Available Options

Single-mode fiber coupling
Multimode fiber coupling
Heat management
Broadband beam splitter
1:2 High rate switch
1:3 High rate switch
1:2 Beam switch
Controlled optical density
Multi-channel modulation

*Oxxius has a policy of continuous product improvement. Specifications may change without notice.*