

MixxWave

By Oxxius

Gamme	Wavelength Combiners
Title	MixxWave with High Power lasers
Description	<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. 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">• L4Cc: up to 4 lasers, 2 AOMs• L6Cc: up to 6 lasers, 2 AOMs• Combines 375–1064 nm wavelengths• Up to 2 fiber outputs• Integrated electro-mechanical shutters on each port• Extension modules for port switching



General Specifications

Power stability (baseplate temperature $+\text{-} 3\text{K}$)	
Free space	$\pm 1\text{ \% p-to-p}$
PM + SM fiber coupled	$\pm 2\text{ \% p-to-p}$
Modulation	
Analog (0 - 5 V)	DC - 1 MHz

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

Available Options

Option 1	Multimode fiber coupling
Option 2	Heat management
Option 3	1:2 Beam switch