



BLUEWAVE® MX-SERIES MULTICHANNEL CONTROLLERS PRODUCT BULLETIN



BlueWave® MX-Series Multichannel Controllers Independently Drive Up to Four BlueWave® MX-Series Emitters with One Controller

BlueWave® MX-series multichannel controllers are available in 2- and 4-channel versions, allowing manufacturers to use just one controller to run up to four emitter work stations. Each emitter can be controlled independently of the others or in any combination to produce flood and light bar patterns. Activation can be by foot pedal or through an enhanced PLC and interface. The controllers are compatible with all Dymax MX-series emitters including the BlueWave® MX-150 spot lamp, BlueWave® MX-250 flood lamp, and BlueWave® MX-275 light bar. Interconnect cables are available in 2-, 5-, 10-, and 20-meters lengths, allowing emitters to be stationed further from the controller.

The controllers are designed to provide manufacturers with greater curing flexibility. Users can start with a single emitter and add others as their applications grow. Emitter models can be utilized in different combinations with the same controller. For those requiring a spot-cure system, BlueWave® MX-150 emitters can be outfitted with single or multi-pole lightguides to provide up to 16 individual cure spots from a single controller.

System Features & Benefits

Features	Benefits
One controller runs up to four emitters independently by footswitch or as an integrated light bar (50 mm x 200 mm)	<ul style="list-style-type: none"> • Reduces the number of controllers required • Reduces equipment footprint and cost
Compatible with BlueWave® MX-Series emitters*	<ul style="list-style-type: none"> • Users can easily switch between LED spot and flood curing configurations • All BlueWave® MX-series emitters available in 365, 385, and 405 nm versions • Future compatibility with the BlueWave® MX-275 light bar
Admin and production modes	<ul style="list-style-type: none"> • Simple on/off operation using production mode • Application specific curing profiles/programs can be easily entered, stored, and recalled when needed • Units can be password protected so only production mode can be accessed by workers
Touch screen with full keyboard	<ul style="list-style-type: none"> • Improved user interface • Stylus aids easy menu navigation and attaches to unit
Instant on-off	<ul style="list-style-type: none"> • No warm-up period • More energy efficient
LED temperature management and system monitoring	<ul style="list-style-type: none"> • Maximized continuous operation without overheating • Temperature monitoring assures maximum LED life • Monitors critical system functions
Remote I/O interface	<ul style="list-style-type: none"> • Easily incorporated into automated systems • Improved PLC interface provides additional flexibility for automated applications

* Compatible with BlueWave® MX-150 and BlueWave® MX-250 emitters with firmware version 1.08 or higher. Dymax can easily upgrade emitter firmware to the latest versions by returning your emitter to our one of our service facilities.

Admin and Production Modes

Admin mode fully unlocks the device and allows for setting curing time and intensity cycles. Each individual curing cycle can be entered and saved as a program, and recalled when needed. The production mode is designed for simple operation by manufacturing personnel. Settings and access to admin mode can be password protected using the full QWERTY keyboard.

LED Light-Curing Technology

Dymax LED curing systems generate curing energy using high-intensity LEDs in lieu of conventional arc lamp technology. The relatively narrow frequency band of energy emitted by LEDs results in cooler curing environments and substrate temperatures compared to traditional UV-style lamp systems, making them ideal for curing thermally sensitive materials. Dymax LED-curing systems offer many energy and cost-saving benefits, such as no warm-up period, lower energy consumption, no bulbs to change, and more consistent frequency and intensity output for better process control.

System Specifications

Property	Specification
Power Supply Input	100-240V≈ 2.5A, 50-60Hz
LED Timer	0.1 to 999 seconds, max (timer accuracy 0.1%)
LED Activation	Foot pedal, LCD touchscreen, or PLC
Cooling	Air cooled
Controller Dimensions (W x D x H)	5.14" x 7.19" x 7.35" [13.1 cm x 18.3 cm x 18.7 cm]
Weight	Controller: 2.6 lbs. [1.18 kg]
Unit Warranty	1 year from purchase date
Operating Environment	10 to 40°C (50°F to 104°F) 0-30% relative humidity, non-condensing



Run up to Four Workstations from One Controller

Ordering Information

PART NUMBERS			
System Components			
BlueWave® MX-Series 2-Channel Controller/ Power Supply	43185	North American Power Cord	Note: Interconnect cables to connect controller to emitters and foot pedals sold separately.
	43186	Asian Power Cord (Type G)	
	43184	No Power Cord*	
BlueWave® MX-Series 4-Channel Controller/ Power Supply	43182	North American Power Cord	Note: Interconnect cables to connect controller to emitters and foot pedals sold separately.
	43183	Asian Power Cord (Type G)	
	43181	No Power Cord*	
Accessories			
Interconnect Cable	42287	2-Meter Interconnect Cable Assembly	
	42889	5-Meter Interconnect Cable Assembly	
	43010	10-Meter Interconnect Cable Assembly	
	43011	20-Meter Interconnect Cable Assembly	
Foot Pedal	43106	Foot Pedal	
Emitter Stand	43070	MX Emitter Stand – Includes LED Stand 41268 and 43019 Kit for up to 4 Emitters	
	43019	MX Emitter Stand Kit – Attaches to Stand 41268 and Holds up to 4 Emitters	
	41268	BlueWave® LED Mounting Stand with Acrylic Back Shield	
	41395	3-Sided Acrylic Shield - Works with Stand 41268	

* For European customers, the appropriate power cord will be added.



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Please note that most curing system applications are unique. Dymax does not warrant the fitness of the product for the intended application. Any warranty applicable to the product, its application and use is strictly limited to that contained in Dymax standard Conditions of Sale published on our website. Dymax recommends that any intended application be evaluated and tested by the user to ensure that desired performance criteria are satisfied. Dymax is willing to assist users in their performance testing and evaluation by offering equipment trial rental and leasing programs to assist in such testing and evaluations.

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