# GSVITEC High Power LED LED MX



## Exchangeable lenses

- 60.000 lm white, color or NiR LED
- Pulsed or continuous
- Small size
- Down to 200 ns strobe

## WE BUILD THINGS THAT WORK THE WAY YOU WISH THEY WOULD.

MultiLed produts cover all applications of high speed cameras and many applications in the machine vision market. Some models e.g. cover sub microsecond exposure time, monochromatic light or give you enough light to fully close aperture at some microseconds exposure time. Designed from a decade of experience with thousands of customer projects in mind, MultiLed products offer ultra strong lighting at an affordable price.

# **MULTILED MX - KEY FEATURES**

The MultiLed MX is a standalone lamp head for continuous operation. With the optional MultiLed GX8 controller connected, you can access a lot more functionality:

- Preinstalled lens (horizontal x vertical): 12°x12°
- Additional lenses (horizontal x vertical): 25°x25° 40°x40° 60°x60° 30°x13° 60°x12°
- 60.000 lumen
- Standard desktop power supply with 7 m cable included
- White, color and NiR LED models available.
- 550W 48V
- Continuous operation
- Bottom and top 3/8" standard thread for photographic accessories and mount
- Status LED
- Uses MULTILED GEN4 System cable

#### Advanced features when connected to MultiLed GX8:

New GS Vitec "ultra high speed strobe" technology. Supply power directly from GX8 for up to 2 MX lamp heads Control up to 8 MX from one GX8 controller (with power injectors)

- Down to 170 nanoseconds strobe length at full output power
- Pulse delay: 290 ns (level mode); 700 ns +/- 50 ns (edge mode)
- Pulse rise time: 60 ns (white); 25 ns (color)
- Pulse fall time: 160 ns (white); 15 ns (color)
- Shortest usable pulswidth: 170 ns (white); 100 ns (color)
- Strobe on pulse duration or flank selectable
- Adjustable intensity for each channel: 1% to 100%
- Temperature and status display for each lamp head
- All communications and trigger come from the GX8 through GEN4 System cable

#### Scope of delivery:

- MX: Lamp head, desktop power supply, 7m cable, 12°x12° lens
- MX Plus: As MX, additional lenses: (horizontal x vertical): 25°x25° 40°x40° 60°x60° 30°x13° 60°x12°
- MX Set: 2-8 x MX lamp head, 1 x GX8 controller, 2-8 x 600 W power supplies with 7m cable,
  - 2 x 5m trigger cable, full lens sets of (horizontal x vertical): 25°x25° - 40°x40° - 60°x60° - 30°x13° - 60°x12° for each lamp head.

white			
455 nm			
530 nm			
660 nm			
810 nm			
850 nm			
940 nm			





### **MULTILED MX - TECHNICAL DATA SHEET**

# **VALUE SERIES**

MULTILED MX		
Luminous flux	White, 60.000 lumen	
Power	550 W	
Supply voltage	48 Vdc	
Bundled PS	Desktop, 48 V, 600 W	
Connector	1x molex micro-fit 3.0	
Heat dissipation	Active, heatsink and fan	
Einvironmental temp. (operation)	-25°C - 40°C	
temp. (Storage)	-25°C - 80°C	
Overtemperature protection	Sensor onboard	
IP class	IP 20	
Mounting options	3/8" thread	
Standard lenses	12° x 12° (horizontal x vertical)	
Optional lenses (MX Plus)	25°x 25°, 40° x 40°, 60° x 60°, 30° x 13°, 60° x 12° (horizontal x vertical)	
Dimensions	207 * 140 * 88 mm	
Weight	1.950 g	
Setup	Standalone or with GX8 controller	
Housing	Aluminium	
Light modes	Continuous, pulse duration, flank mode with predifined strobe time	
Light Intensity	Adjustable, 1%-100%/Off	

ALTERNATIVE LED TYPES (STANDARD: COLD WHITE 50.000 lm)				
Color	Peak wavelenght nm	Luminous flux lm	Radiant flux mW	
95 CRI White	Warm white	30.000	-	
Blue	440 - 460	-	180.000	
Green	520 - 540	-	42.000	
Photo red	640 - 670	-	131.000	
NiR 810 nm	~ 810	-	109.000	
NiR 850 nm	~ 850	-	100.000	

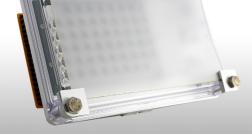
108.000

For a more narrow wavelength selection, please contact us.

NiR 940 nm

~ 940





Timing with GX8					
	MX white	MX color			
Delay (level mode)	290 ns	290 ns			
Delay (edge mode)	700 ns +/- 50 ns	700 ns +/- 50 ns			
Rise time	60 ns	25 ns			
Fall time	160 ns	15 ns			
Shortest usable	170 ns	100 ns			

