



PRELIMINARY

- 1.800.000 lm overdrive
- Color LED available
- Changeable lenses
- Low duty cycle pulsed operation only
- Down to 250 ns strobe
- IPxx options

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

MultiLED products cover all applications of high speed cameras and many applications in the machine vision market. Some family members 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 L190X - KEY FEATURES

- For pulsed operation at low duty cycle only. With 30.000 W LED power, e.g. at 10 kHz and 1 μ s exposure time only 300 W are used.
- Power consumption limited to 2.000 W
- White or Color LED
- Very homogenous illumination
- Preinstalled lens (horizontal x vertical): 18°x18°
- Additional lenses (horizontal x vertical): 27°x27° - 45°x45° - 63°x63° - 35°x19° - 63°x18°
- Power supply 600 W with 5 m cable included
- Options:
 - Longer cables or other cable types on request
 - LiPo Battery pack on request.

Advanced features when connected to MultiLED GX8 as power supply:

- Adjustable intensity for each channel: 1% to 100%
- Temperature and status display for each lamp head
- On/Off for each channel
- Strobe on TTL level OR flank mode with predefined delay and duration
- With GX8 Touch, RS-485 connection is available (example software and SDK included).
- 7 meters cable to GX8 included

ALTERNATIVE LED TYPES (STANDARD: COLD WHITE 1.800.000 lm)

Color	Peak wavelenght nm	Luminous flux lm	Radiant flux mW
65 CRI White	Cold white (standard)	1.800.000	-
95 CRI White	Warm white (optional)	810.000	
Blue	440 - 460	-	5.660.000
Light Blue	460 - 480		2.540.000
Green	520 - 540	-	1.020.000
Red	615 - 630		1.700.000
Photo red	640 - 670	-	3.375.000
Far red	710 - 750		1.800.000
NiR 810 nm	~ 810	-	2.700.000
NiR 850 nm	~ 850	-	2.440.000
NiR 940 nm	~ 940	-	793.000

For a more narrow wavelength selection, please contact us.



MultiLED L190X

MULTILED L190X

Luminous Flux / overdrive mode	Cold White 1.800.000 lm
Overdrive power	max 30.000 W
Supply Voltage	36-54 V depending on color
Bundled PS	Desktop, 48 V, 600 W
Heat Dissipation	150 W without active cooling option 1.000 W with active cooling option (heatsink and fan)
Environmental temp. (operation)	80° C is the safe operating limit for the Leds, where they units turn off. The environmental temperature determines how long the units can work, so you will have much longer operation times starting at -25° env. temp. than on 40°.
temp. (storage)	-25 - 70° C
Overheat Protection	sensor onboard 85° C
Designed to meet:	Depending on housing
Mounting Options	Depending on housing
Standard Lenses	18° full angle / round
Alternative Lenses upon time of order	27°, 45°, 63°, asymmetric 35°x19° / 63°x18°
Dimensions	+/- 450 x 350 x 45 mm depending on housing
Weight	Depending on housing
Outdoor version weight and size	TBD
delay / rise and fall time	L190X white: rise 180 ns / fall 200ns Level mode: delay 650 ns Edge mode: delay 650 ns - 700 ns
LEDs	864 LEDs w. changeable lenses

Housing suggestions

PRODUCT	ORDER CODE
Outdoor upgrade, designed to meet IP67	gsv-L190X-hou-pcal
Outdoor upgrade, designed to meet IP67, with active cooling	gsv-L190X-hou-pcal-fn
Particle polluted vacuum upgrade L190X	gsv-L190X-hou-vacpart
300°C+ Temperature upgrade AL for L190X	gsv-L190X-hou-300-AL
300°C+ Temperature upgrade V4A for L190X	gsv-L190X-hou-300-V4A

