

Email: sales@cinchang.com.tw

Laser Marker & LED Projector





What do you do by using the laser marker & LED projector?

Positioning by watching

Indicating a machining position for Shoe-Making Machine



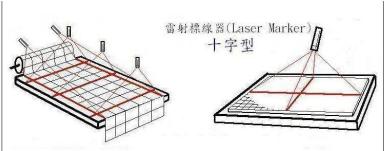
Indicating a cutting position for stone industry



直線型

Indicating a machining position for Textile Printing

Indicating a cutting position for Paste



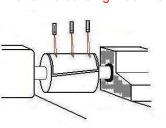
LED定位投光器(LED Porjector)



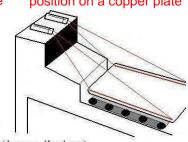
Indicating a needle position for an industrial sewing machine



Indicating a position for a tire building machine



Indicating an edge cutting position on a copper plate



雷射標線器(Laser Marker) 直線型

Image processing with CCD

Indicating a position for inspection equipment



LED定位投光器(LED Porjector)

PCB mounting inspection



Other sensing & measurement

Body profile measurement



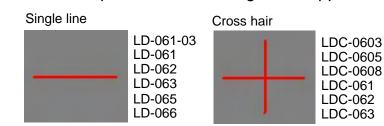


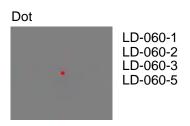
Laser Marker Selector

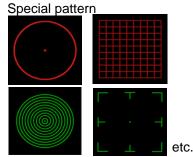
MEDAL ELECTRICITY manufactures quality laser marker for alignment applications. Our laser line and cross-hair generators are used in indicating a machining position around the world.

Pattern: What type of pattern do I want to project onto my target?

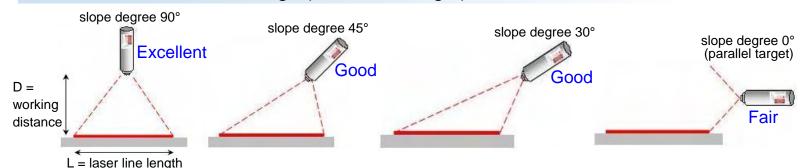
Common patterns used in alignment applications:







Using method: working distance(far from the target), laser marker slope degree laser line length(line on the target).



Wavelength: What color should my laser emit?

Red (635 650nm) lasers are recommended and usually suitable for laser alignment applications. However, green (532 nm) lasers have a higher visibility, as the human eye is more sensitive to green. For example, a 1 mW green beam (532 nm) will be better perceived by the human eye than a 1 mW red beam (635 nm). Red lasers are generally less expensive than green lasers.

Eye safety: Is my laser eye safe?

Keep your laser eye safe in class II (CDRH standards) or class 1/2/2M (IEC standards).

The output power of your laser is directly proportional to the safety level of your laser.

The higher the output power, the higher the class rating of your laser.

The fan angle of your line laser can change the eye safety level of your laser. Generally, larger fan angles are more eye safe than smaller ones.

Operating temperature: Will my laser function properly in my work environment?

We recommend our standard laser marker is operated in a normal environment (10 to 45°C)

Accessories for your laser: What else do I need?

Power supply: A wall adapter that supplies 5 V of power to your laser for normal operation.

(PS-1: one power supply to one laser marker, PS-3Y: one power supply to three laser marker,

PS-5Y: one power supply to five laser marker) A battery pack (for short term operation only).

Mounting holder: Position your laser marker for precise alignment.

Holder can be pivoting and also effective dissipaters of heat.



Laser Marker Standard

Cross hair

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LD-061-03	D=1m	L=300mm
LD-061	D=1m	L=1m

	LD-062	D=1m	L=2m
Single Line	LD-063	D=1.5m	L=3m

LD-065	D=2m	L=5m
LD-066	D=2m	L=6m

LDC-0603	D=300mm	L=180mm
LDC-0605	D=500mm	L=260mm
LDC-0608	D=800mm	L=400mm

LDC-061	D=1m	L=1m
LDC-062	D=1m	L=2m
LDC-063	D=1.5m	L=3m





LD-060-1 D=1m

LD-060-2 D=2m

LD-060-3 D=3m

LD-060-5 D=5m

Green Laser Marker Standard

Dot



Single Line

Cross hair

Dot

LDG

LED Projector Standard



LED-02R

Distance: 100~350mm LED-02G

or custom

LED-L02R

LED-L02G

Distance: 100~350mm



or custom

LED-03

LED-05

LED-15

Distance: 200~600mm

Distance: 350~800mm

Distance: 800~2000mm





- · safty · compact, light weight
- long service life high quality
- design for industry high reliability
- "Spot", "Line" patterns are available

PRODUCT	LASER MARKER (Single Line)		
TYPE	LD-061-03	LD-061	LD-062
LINE LENGTH	350mm	1m	2m
DISTANCE	0.5~1.5m	0.5~2m	1~2m
OUTPUT POWER	3mW	4.5mW	6mW
WAVE LENGTH	635~650nm (Visible red light)		
LINE WIDTH	0.6~1.0mm	0.6~1.0mm	0.8~1.2mm
LIFETIME	> 50000hr	> 50000hr	> 25000hr
POWER CONSUMPTION	DC 5V~6V 100mA		
TEMPERATURE RANGE	-10°C~ + 45°C		
WEIGHT	320g	320g	320g
VOLUMN	φ22 × 90	φ 22 × 83	φ22 × 83
HOLDER	B01	B01	B01

PS. : There are three types of PSU can be chosen to use with.(PS-1 \cdot PS-3Y \cdot PS-5Y)

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- safty compact, light weight
- long service life high quality
- design for industry high reliability
- · Clear projection with a far field
- "Spot", "Line" patterns are available

PRODUCT	LASER MARKER (Single Line)		
ТҮРЕ	LD-063	LD-065	LD-066
LINE LENGTH	3m	5m	5m~7m
DISTANCE	1~2m	1~2.5m	1~2.5m
OUTPUT POWER	8mW	12mW	16mW
WAVE LENGTH	635~650nm (Visible red light)		
LINE WIDTH	0.8~1.2mm	1.2~2.5mm	1.5~2.5mm
LIFETIME	> 25000hr	> 20000hr	> 20000hr
POWER CONSUMPTION	DC 5V~6V 100mA		
TEMPERATURE RANGE	-10°C~ + 45°C		
WEIGHT	360g	360g	650g
VOLUMN	φ 22 × 83	φ 22 × 83	φ38 × 105
HOLDER	B02	B02	B03

PS. : There are three types of PSU can be chosen to use with.(PS-1 ${\,\cdot\,}$ PS-3Y ${\,\cdot\,}$ PS-5Y)





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PRODUCT	LASER MARKER (Cross Hair) (Working Distance <1m)		
TYPE	LDC-0603	LDC-0605	LDC-0608
LINE LENGTH	160mm	260mm	400mm
DISTANCE	300mm	500mm	800mm
OUTPUT POWER	3mW	3.3mW	3.5mW
WAVE LENGTH	635~650nm (Visible red light)		
LINE WIDTH	0.5mm	0.6mm	0.8mm
LIFETIME	> 50000hr	> 50000hr	> 50000hr
POWER CONSUMPTION	DC 5V~6V 100mA		
TEMPERATURE RANGE	-10°C~ + 45°C		
WEIGHT	320g		
VOLUMN	φ 22 × 88		
HOLDER	B02		

PS.: There are three types of PSU can be chosen to use with.(PS-1 \cdot PS-3Y \cdot PS-5Y)

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- safty compact, light weight
- long service life high quality
- design for industry high reliability

PRODUCT	LASER MARKER (Cross Hair) (Working Distance >1m)		
TYPE	LDC-061	LDC-062	LDC-063
LINE LENGTH	1m	2m	3m
DISTANCE	0.5~1.5m	1 ~2.5m	1~2.5m
OUTPUT POWER	4.5mW x2	6mW x2	8mW x2
WAVE LENGTH	635~650nm (Visible red light)		
LINE WIDTH	0.8~1mm	0.8~1mm	0.8~1.2mm
LIFETIME	> 50000hr	> 25000hr	> 20000hr
POWER CONSUMPTION	DC 5V~6V 100mA		
TEMPERATURE RANGE	-10°C~ + 45°C		
WEIGHT	700g		
VOLUMN	φ38 × 91		
HOLDER	B03		

PS. : There are three types of PSU can be chosen to use with.(PS-1 \cdot PS-3Y \cdot PS-5Y)

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- safty,highly-bright LEDs
- Using easy-on-the-eyes
- · LED colors: red and green
- "Cross", "Line" and "Spot" patterns are available.
- The lens focus is adjustable.

PRODUCT	LED PROJECTOR (Small cross pattern)				
TYPE	LED-02R	LED-02G	LED-L02R	LED-L02G	
DISTANCE	100mm~350mm				
PATTERN DIMENSION	Focus: 150mm	Focus: 150mm f 6mm 0.6mm	Focus: 200mm 35mm 1mm	Focus: 200mm	
PROJECTION SYSTEM	Adjustable focus				
WAVELENGTH	red light 625nm	green light 525nm	red light 625nm	green light 525nm	
POWER CONSUMPTION	DC 5V±5%				
TEMP. RANGE	-10°C~ + 50°C				
WEIGHT	260g	260g	270g	270g	
VOLUMN	φ 22 × 105 mm				





- safty,highly-bright LEDs
- · Using easy-on-the-eyes
- LED colors: warm white
- "Cross", "Line" and "Spot" patterns are available.
- The lens focus is adjustable.

PRODUCT	LED PROJECTOR (Large cross pattern)			
TYPE	LED-03	LED-05	LED-15	
DISTANCE	200~600mm	350~800mm	800~2000mm	
PATTERN DIMENSION (mm)	Focus: 350mm	Focus: 600mm 100mm 1mm	Focus: 1200mm 120mm 1.2mm	
PROJECTION SYSTEM	Adjustable focus			
COLOR	WARM WHITE , RED , GREEN			
POWER CONSUMPTION		DC 3.5V 650mA		
TEMP. RANGE	-10°C~ + 45°C			
WEIGHT	700g	720g	760g	
VOLUMN	φ38 × 120	φ 38 × 160	φ38 × 195	