Laser Solution Korea
Solutions for Laser Applications from Korea
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Specifications issued on March, 2016

◉CYL20ADJ 시리즈

『Picture or 3D』

『Features』

◈ Optical output power : Max. ~ 200mW Multi ~ 1W
◈ Output power stability Max. < ±10 %
◈ 포커싱 가능 형태
◈ 다양한 빔형태 : Dot, Line, Cross, Circle, Multi-line, Multi-grid etc
◈ 라인빔의 일직선성 : error < ± 0.2mm at 3m
◈ Options
- Glass collimate lens : 요구되는 빔 사양에 따라 차등 적용
  GCL1-EFL 10mm, GCL2-EFL 15mm, GCL3-EFL 20mm
  GCL3-EFL 45mm, GCL4-EFL 85mm
- TTL modulation < 200 kHz

『Optical / Electrical features』

*1.Gaussian/Non-gaussian line : Cylindrical or Powell lens를 이용한 연속선을 나타내며, Gaussian은 5, 10, 15, 30, 45, 60, 90, 120 Deg. Non-Gaussian은 30, 45, 60 Deg. Fan angle.

*2. Diffractive Line/Cross : Line 20, 30, 40, 50, 90, 120 Deg. 와 Cross 50 Deg. Fan angle. 측정거리는 500mm 거리. (1m 이내에서 사용 추천)

*3. DOE pattern : Cross 15 Deg., Circle, Multi-line, Multi-grid etc. 측정거리는 500mm 거리.(3m 이내에서 사용 추천)

Items		Features			
Wavelength		405 nm	445/450nm	520nm	532nm
Output Power		~10, ~35, ~100mW	~70mW, Multi ~200mW	~4, ~18, ~80, ~120, ~150mW	~5, ~10, ~50, ~100mW
Output Power stability		< ± 5%	< ± 5%, Multi< ± 10%	< ± 5%	< ± 10%
Beam type & size(thickness) at 3m ■ Optional	Dot (Divergence)	∅1, ∅2, 3×2 (< 0.1 mrad)	∅1, ∅2 (<0.1mrad) Multi 2×1, 5×2 (< 2 mrad)	∅1, ∅2, 2×1 (< 0.1 mrad)	∅1.5 (< 0.1 mrad)
	*1 Gaussian/Non-gaussian line	> 1 mm	> 1 mm, > 2 mm	> 0.4 mm	> 2 mm
	*2 Diffractive Line/Cross	> 0.5 mm	> 0.5 mm, > 3 mm	> 1 mm	> 1 mm
	*3 DOE pattern	> 0.5 mm	> 0.5mm, > 3 mm	> 1 mm	> 1 mm
Focused beam size[mm] at 300mm		Dot >0.05, thickness >0.02	Dot >0.05, thickness >0.02 Multi Dot >0.3, thickness >0.07	Dot >0.05, thickness >0.02	Dot >0.1, thickness >0.1
Mode		TEM00	TEM00, Multi-mode	TEM00	TEM00
Input voltage		3 ~ 5 V			
Consumption current		Max. 200 mA	Max. 400 mA	Max. 200 mA	Max. 350 mA
Laser Diode type		P or N-type or other			
Dimension		∅20 × 120 L			
Outside Material		Aluminum anodizing			
Lifetime at room temp.		20,000 hours			10,000 hours
Operating Temperature		-10 ~ 40 ℃			
Storage Temperature		-30 ~ 80 ℃			
Options		빔 사양, Multi-mode는 PCB 분리형태, TTL Modulation < 2 MHz			
Remarks		*설치시에 방열구조 필요 *과도한 충격을 금해주시고, 강한 모터나 전자기파 주변에 설치하는 것을 피해주십시오.			

『Optical / Electrical features』

Items		Features			
Wavelength		635nm	660nm	670nm	685nm
Output Power		~10, ~35, ~100, Multi ~200mW	~25, ~45, ~80, ~130, ~180, ~200mW	~18mW	~7, ~25, ~45mW
Output Power stability		< ± 5%, Multi< ± 10%	< ± 5%	< ± 1%	< ± 1%
Beam type & size(thickness) at 3m ■ Optional	Dot (Divergence)	∅2 (<0.1mrad) Multi 2×1, 5×2 (< 2 mrad)	∅2, ∅3 (< 0.1 mrad)	∅1, ∅2, 2×1 (< 0.1 mrad)	∅1.5, ∅2 (< 0.1 mrad)
	*1 Gaussian/Non-gaussian line	> 1 mm, Multi > 2 mm	> 1.5 mm	> 1.5 mm	> 1.5 mm
	*2 Diffractive Line/Cross	> 0.5 mm, Multi > 3 mm	> 0.5 mm	> 0.5 mm	> 0.5 mm
	*3 DOE pattern	> 0.5 mm, Multi > 3 mm	> 0.5 mm	> 0.5 mm	> 0.5 mm
Focused beam size[mm] at 300mm		Dot >0.02, thickness >0.01 Multi Dot >1, thickness >1	Dot >0.04, thickness >0.01	Dot >0.02, thickness >0.01	Dot >0.04, thickness >0.01
Mode		TEM00, Multi-mode	TEM00	TEM00	TEM00
Input voltage		3 ~ 5 V			
Consumption current		Max. 350 mA	Max. 350 mA	Max. 60 mA	Max. 150 mA
Laser Diode type		P or N-type or other			
Dimension		∅20 × 120 L			
Outside Material		Aluminum anodizing			
Lifetime at room temp.		20,000 hours			
Operating Temperature		-10 ~ 40 ℃			
Storage Temperature		-30 ~ 80 ℃			
Options		빔 사양, Multi-mode는 PCB 분리형태, TTL Modulation < 2 MHz			
Remarks		*설치시에 방열구조 필요 *과도한 충격을 금해주시고, 강한 모터나 전자기파 주변에 설치하는 것을 피해주십시오.			

『Optical / Electrical features』

Items		Features			
Wavelength		785nm	808nm	830nm	850nm
Output Power		~10, ~35, ~45mW	Single~200mW, Multi~1W	~25, ~45, ~80, Multi ~ 180mW	~25, ~45, ~80, Multi ~180mW
Output Power stability		< ± 1%	< ± 5% , Multi < ± 5%	< ± 5%	< ± 5%, Multi <± 5%
Beam type & size(thickness) at 3m ■ Optional	Dot (Divergence)	∅1, ∅2, 3×2 (< 0.1 mrad)	∅2 (<0.1mrad) Multi 2×1, 5×2 (< 2 mrad)	∅2 (<0.1mrad) Multi 2×1, 5×2 (< 2 mrad)	∅2 (<0.1mrad) Multi 2×1, 5×2 (< 2 mrad)
	*1 Gaussian/Non-gaussian line	> 1 mm	> 1 mm, Multi > 2 mm	> 1 mm, Multi > 2 mm	> 1 mm, Multi > 2 mm
	*2 Diffractive Line/Cross	> 0.5 mm	> 0.5 mm, Multi > 3 mm	> 0.5 mm, Multi > 3 mm	> 0.5 mm, Multi > 3 mm
	*3 DOE pattern	> 0.5 mm	> 0.5 mm, Multi > 3 mm	> 0.5 mm, Multi > 3 mm	> 0.5 mm, Multi > 3 mm
Focused beam size[mm] at 300mm		Dot >0.05, thickness >0.02	Dot >0.02, thickness >0.01 Multi Dot >1, thickness >1	Dot >0.02, thickness >0.01 Multi Dot >1, thickness >1	Dot >0.02, thickness >0.01 Multi Dot >1, thickness >1
Mode		TEM00	Single TEM00, Multi-mode	TEM00	TEM00
Input voltage		3 ~ 5 V			
Consumption current		Max. 100 mA	Max. 350mA / 1.2A	Max. 300 mA	Max. 300 mA
Laser Diode type		P or N-type or other			
Dimension		∅20 × 120 L			
Outside Material		Aluminum anodizing			
Lifetime at room temp.		20,000 hours			
Operating Temperature		-10 ~ 40 ℃			
Storage Temperature		-30 ~ 80 ℃			
Options		빔 사양, Multi-mode는 PCB 분리형태, TTL Modulation < 2 MHz			
Remarks		*설치시에 방열구조 필요 *과도한 충격을 금해주시고, 강한 모터나 전자기파 주변에 설치하는 것을 피해주십시오.			

『Optical / Electrical features』

Items		Features			
Wavelength		905nm	980nm		
Output Power		~15mW	~80mW		
Output Power stability		< ± 1%	< ± 1%		
Beam type & size(thickness) at 3m ■ Optional	Dot (Divergence)	∅1, ∅2, 3×2 (< 0.1 mrad)	∅1, ∅2, 3×2 (< 0.1 mrad)		
	*1 Gaussian/Non-gaussian line	> 1 mm	> 1 mm		
	*2 Diffractive Line/Cross	> 0.5 mm	> 0.5 mm		
	*3 DOE pattern	> 0.5 mm	> 0.5 mm		
Focused beam size[mm] at 300mm		Dot >0.05, thickness >0.02	Dot >0.05, thickness >0.02		
Mode		TEM00	TEM00		
Input voltage		3 ~ 5 V			
Consumption current		Max. 60 mA	Max. 150 mA		
Laser Diode type		P or N-type or other			
Dimension		∅20 × 120 L			
Outside Material		Aluminum anodizing			
Lifetime at room temp.		20,000 hours			
Operating Temperature		-10 ~ 40 ℃			
Storage Temperature		-30 ~ 80 ℃			
Options		빔 사양, Multi-mode는 PCB 분리형태, TTL Modulation < 2 MHz			
Remarks		*설치시에 방열구조 필요 *과도한 충격을 금해주시고, 강한 모터나 전자기파 주변에 설치하는 것을 피해주십시오.			