

Rayrun

Smart Lighting Products

智能照明产品

Rayrun

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umi



LumiFree

2027

Driver / Controller / Sensor / Control gear / Bridge

Category	Model	Function	Power	Output
Stand-alone CC driver	HDN15CB-U/B/E	15W CC driver	AC 200-240V	0-50V, 50-700mA
	HDN20CB-U/B/E	20W CC driver	AC 200-240V	0-50V, 50-1050mA
	HDL35CB-U/B/E	35W CC driver	AC 200-240V	0-50V, 50-1320mA
	HDC50CB-U/B/E	50W CC driver	AC 200-240V	0-50V, 50-1320mA
Track CC driver	HDA35CB-U/B/E	35W AC track CC driver	AC 200-240V	0-50V, 50-1050mA
	HDE35CB-U/B/E	35W AC track CC driver	AC 200-240V	0-50V, 50-1050mA
	TDS15CB-U/B	15W DC track CC driver	DC 24-48V	0-(Vin-2)V, 50-500mA
	TDC25CB-U/B	25W DC track CC driver	DC 24-48V	0-(Vin-2)V, 50-700mA
Signal adaptor	HCB30(-S)	Dali/0-10V adaptor	AC 100-240V	Dali signal with power / 0-10V
	TCB11	M11 track Dali adaptor	DC 24-48V	Dali signal with power supply
	TCB16	M16 track Dali adaptor	DC 24-48V	Dali signal with power supply
AC phase cut dimmer	APD03CB	AC phase cut dimmer	AC 100-240V	AC phase cut, 300W@220V
	APD05CB	AC phase cut dimmer	AC 100-240V	AC phase cut, 500W@220V
CV driver	VDA10024CB-E/U	100W CV driver	AC 200-240V	18-25V PWM, 4.2A
	VDA20024CB-E/U	200W CV driver	AC 200-240V	18-25V PWM, 8.3A
	VD200CB(-S)	200W outdoor CV driver	AC 100-240V	24V PWM, 8.3A
	VD400CB-S	400W outdoor CV driver	AC 100-240V	24V PWM, 16.7A
PLC master driver	PD200CB(-S)	200W PLC master driver	AC 100-240V	48V with PLC, 200W
	PD400CB-S	400W PLC master driver	AC 100-240V	48V with PLC, 400W
	MD400CB(-S)	400W PLC master driver	DC 48V	48V with PLC, 400W
PLC slave driver	SDE10	10W PLC slave driver	DC 24-48V	0-(Vin-2)V, 100-500mA
	SDA10-E/B	10W PLC slave driver	DC 24-48V	0-(Vin-2)V, 100-500mA
	SDC25-E/B(H)	25W PLC slave driver	DC 24-48V	0-(Vin-2)V, 100-700mA
	SDF20-E/B(S)	20W PLC slave driver	DC 24-48V	0-(Vin-2)V, 100-700mA
CV controller	XB50	5-ch PWM controller	DC 8-50V	5-ch PWM, 5x8A
	XD60CB	6-in-1 PWM controller	DC 8-50V	5-ch(2-wire CCT) PWM, 5x8A
	NB.1	4-ch PWM controller	DC 6-24V	4-ch PWM, 4x3A
	PB.0-S	4-ch PWM controller	DC 6-24V	4-ch PWM, 4x3A
Control gear	CR03-M	Handheld remote	3V cell battery	-----
	CW03-A/B	Touch wall panel	AC / 3V cell batt.	-----
Sensor	PS02(-L/-U)	PIR sensor	3V cell/pack batt.	-----
	PSC01	Microwave sensor	AC 100-240V	-----
LumiFree CC driver	HDN20CJ-B	20W LumiFree CC Driver	AC 200-240V	0-50V, 100-1050mA
	HDL35CJ-B	35W LumiFree CC Driver	AC 200-240V	0-50V, 100-1400mA
Motorized light solution	PTL40CB	Motorized light controller	DC 48V	CC driver, motor, LumiFree
	MFA25CB	25W motorized light	AC 200-240V	Motorized light
Bulb	BC20	CCT E-27 bulb	AC 200-240V	CCT light
	BC40	RGBW E-27 bulb	AC 200-240V	RGBW light
Casambi to matter bridge	MTB10	Casambi to Matter bridge	DC 5V	-----



2-in-1 Model



Pure DC Dimming



User Parameters



0-50V Output



Energy Report



HDN15CB 15W CC driver



HDN20CB 20W CC driver



HDL35CB 35W CC driver

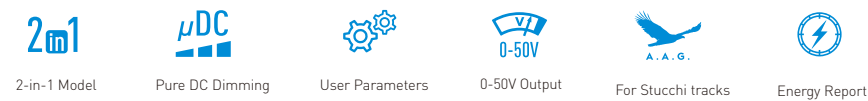


HDC50CB 50W CC driver

- Single color-CCT 2-in-1 model
- Full DC drive, uA level deep dimming
- Wide output voltage range down to 0V
- Output current programmable by App
- Fade time, dimming curve adjustable by App
- Operating status reporting & Energy-lifetime data

- 单色、冷暖白二合一机型
- 全直流驱动, 微安级深度调光
- 低至0V的宽输出电压范围
- 额定电流通过app设定
- 渐变时间、调光曲线app可调
- 状态上报与能耗及生命周期数据

MODEL	HDN15CB-U/B/E	HDN20CB-U/B/E	HDL35CB-U/B/E	HDC50CB-U/B/E
Working voltage	AC 200-240V			
Rated output power	15W	20W	35W	50W
Output channel	Single color (with suffix -E) / Single color & CCT variable (with suffix -U/B)			
Output voltage	0-50V			
Rated output current	50-700mA, config via profile	50-1050mA, config via profile	50-1320mA, config via profile	
Dimming method	0-100% DC dimming			
Power factor	>0.9 at rated power			
Efficiency	>85% @ rated power			
Standby power	<0.5W			
Working temperature (ta)	-20 - +50°C			
Case temperature (tc)	Max +90°C			
Operating status reporting	-U version only. Reports output power, voltage, current and internal temperature			
Energy and lifetime data	-U version only. Tracks energy consumption, operating hours and power cycle counts			
Gradient speed	0-25.5 seconds configurable from app			
Output current trimming	100% to 50%, configurable from app			
Dimming curve	Linear, Logarithm, Optimized Logarithm			
Output channel swap	Configurable for 2-in-1 model, via app			
Dimension (WHL)	31.5x24x125mm		41x30x150mm	110x67x30mm
Net weight	76g	76g	125g	165g



HDA35CB 35W AC track driver



HDE35CB 35W AC track driver

- Single color-CCT 2-in-1 model
 - Full DC drive, uA level deep dimming
 - Wide output voltage range down to 0V
 - Output current programmable by App
 - Fade time, dimming curve adjustable by App
 - Operating status reporting & Energy-lifetime data
- 单色、冷暖白二合一机型
 - 全直流驱动，微安级深度调光
 - 低至0V的宽输出电压范围
 - 额定电流通过app设定
 - 渐变时间、调光曲线app可调
 - 状态上报与能耗及生命周期数据

MODEL	HDA35CB-U/B/E(B/W)	HDE35CB-U/B/E(B/W)
Working voltage	AC 200-240V	
Rated output power	35W	
Output channel	Single color (with suffix -E) / Single color & CCT variable (with suffix -U/B)	
Output voltage	0-50V	
Rated output current	50-1050mA, config via profile	
Dimming method	0-100% DC dimming	
Power factor	>0.9 at rated power	
Efficiency	>86% @ rated power	
Standby power	<0.5W	
Working temperature (ta)	-20 - +50°C	
Case temperature (tc)	Max +90°C	
Operating status reporting	-U version only. Reports output power, voltage, current and internal temperature	
Energy and lifetime data	-U version only. Tracks energy consumption, operating hours and power cycle counts	
Gradient speed	0-25.5 seconds configurable from app	
Output current trimming	100% to 50%, configurable from app	
Dimming curve	Linear, Logarithm, Optimized Logarithm	
Output channel swap	Configurable for 2-in-1 model, via app	
Product form	With A.A.G. Stucchi 9999-DRI housing	With A.A.G. Stucchi 9409-4-DRI housing
Dimension (WHL)	14x28.8x306.7mm	32x42.4x214.3mm
Net weight	124g	120g



TDS15CB 15W DC track driver



TDC25CB 25W DC track driver

- Single color-CCT 2-in-1 model
 - Full DC drive, uA level deep dimming
 - Wide output voltage range down to 0V
 - Output current programmable by App
 - Fade time, dimming curve adjustable by App
 - Operating status reporting & Energy-lifetime data
- 单色、冷暖白二合一机型
 - 全直流驱动，微安级深度调光
 - 低至0V的宽输出电压范围
 - 额定电流通过app设定
 - 渐变时间、调光曲线app可调
 - 状态上报与能耗及生命周期数据

MODEL	TDS15CB-U/B	TDC25CB-U/B
Working voltage	DC 24-48V	
Rated output power	15W	25W
Output channel	Single color (with suffix -E) / Single color & CCT variable (with suffix -U/B)	
Output voltage	0 to (Vin-2V)	
Rated output current	50-500mA, config via profile	50- 700mA, config via profile
Dimming method	0-100% DC dimming	
Efficiency	>90% @ rated power	
Standby power	<0.5W	
Working temperature (ta)	-20 - +50°C	
Operating status reporting	-U version only. Reports output power, voltage, current and internal temperature	
Energy and lifetime data	-U version only. Tracks energy consumption, operating hours and power cycle counts	
Gradient speed	0-25.5 seconds configurable from app	
Output current trimming	100% to 50%, configurable from app	
Dimming curve	Linear, Logarithm, Optimized Logarithm	
Output channel swap	Configurable for 2-in-1 model, via app	
Product form	PCBA, fit for A.A.G. Stucchi 9619 housing	PCBA, fit for A.A.G. Stucchi 9519/9529 housing
Dimension (WHL)	8x5x113.6mm	13.5x7x54.4mm
Net weight	3.6g	4.5g

- Smart control
- 4in-1 Model
- GaN
- User Parameters
- Waterproof option
- Compact size



VDA20024CB 200W CV driver
VDA10024CB 100W CV driver



VD200 200W CV driver



VD400 400W CV driver

- High power in compact size

■ Single color to RGBW application

■ Excellent efficiency, low standby power

■ GaN components, high power density

■ Fade time, voltage trim adjustable by App

■ Waterproof option
- 大功率、小尺寸

■ 适配单色到RGBW应用

■ 高效率、低待机功耗

■ 氮化镓器件, 高功率密度

■ 可App调节渐变时间、电压微调

■ 防水机型可选

MODEL	VDA10024CB-U/E	VDA20024CB-U/E	VD200CB(-S)	VD400CB-S
Working voltage	AC 200-240V		AC 100-240V	
Rated output power	100W	200W	200W	400W
Output channel	Single color (-E) / 1-4 channel variable (-U)		Single color	Single color
Output voltage	Rated 24V, 18-25.2V adjustable via app		24V DC	
Rated output current	4.2A	8.3A	8.3A	16.7A
Dimming method	PWM, variable frequency			
Power factor	>0.9 at rated power			
Rated efficiency	>94%	>95%	>93%	>93%
Standby power	<0.5W			
Working temperature (ta)	-20 - +50℃			
Case temperature (tc)	Max +90℃			
Gradient speed	6-level, from direct to very slow			
Output voltage trimming	75% to 105% of rated voltage, set via app		NA	
PWM frequency	500Hz-20.9KHz, set via app		500Hz-4KHz, set via app	
Auxiliary control	Push button, via app		NA	
Waterproof	NA		IP67 (-S model)	
Dimension (WHL)	43.5x25.5x180mm		61.5x39x138mm	90x44x163mm
Net weight	220g	225g	360g	855g

- Smart control
- 5in-1 Model
- User Parameters
- PWM freq. adjustable
- Waterproof option
- Compact size



XB50 5-ch CV controller
XD60CB 6-in-1 CV controller



NB.1 4-ch controller



PB.0-S 4-ch controller

- Single color to RGB+CCT models

■ Push button & waterproof option

■ Advanced user parameters

■ 8-50V wide voltage range for XB/XD series

■ Compact size, easy installation

■ Full protection feature
- 单路到5路应用

■ 按键控制及防水选项

■ 高级用户参数配置

■ 8-50V的宽幅输入电压 (XB/XD系列)

■ 小尺寸、易安装

■ 全功能保护

MODEL	XB50	XD60CB	NB.1	PB.0-S
Working voltage	DC 8-50V		DC 6-24V	
Output mode	1-5ch. Single color, CCT, RGB, RGBW, RGB+CCT, RGBWW, 5-Dim profiles	1-5ch. Single color, 2/3-wire CCT, RGB, RGBW, RGB+CCT, RGBWW, 5-Dim profiles	1-4ch. Single color, CCT, RGB, RGBW, 4-Dim profiles	
Rated output current	5x8A, total max 24A		4x3A	
Dimming method	PWM, variable frequency			
Standby power	<0.5W			
Protection	Wrong wiring / Overload / Short circuit / Overheat			
Working temperature (ta)	-20 - +50°C			
Case temperature (tc)	Max +90°C			
Gradient speed	6-level, from direct to very slow			
PWM frequency	500Hz-20.4KHz		500Hz-4KHz	
Auxiliary input	Push button, set via app			NA
Waterproof	NA			IP68(-S model)
Connector	Push connectors		Screw terminals	Lead wires
Dimension (WHL)	39x24x134mm		24x15x87mm	21x8.5x87mm

Casambi to dali adaptor

CASAMBI-DALI适配器

- Smart control
- Multiple profiles
- With Dali power supply
- For Stucchi tracks



TCB11 M11 track DALI adaptor

TCB16 M16 track DALI adaptor

- Casambi to Dali signal adaptor
 - Multiple profiles for DT6 & DT8
 - 50mA Dali power output
 - Optimized wireless for track application
 - Fit for A.A.G. Stucchi M11/M16 tracks
- Casambi到Dali转换器
 - 支持DT6/DT8的多种配置
 - 内置50mA Dali电源
 - 针对轨道应用优化的无线性能
 - 适配A.A.G. Stucchi M11/M16 轨道

MODEL	TCB11	TCB16
Working voltage	DC 24-48V	
Output mode	Dali DT6/DT8, broadcast or group address mode	
Dali output power	50mA max	
Working temperature (ta)	-20 - +50℃	
Case temperature (tc)	Max +90℃	
Housing	A.A.G. Stucchi 9619-M1	A.A.G. Stucchi 9519-98-K
Compatible track	A.A.G. Stucchi M11	A.A.G. Stucchi M16
Dimension (WHL)	11x6.9x160mm	16x18x98mm

Casambi to dali adaptor

CASAMBI-DALI适配器

- Smart control
- Multiple profile
- With Dali power supply
- Waterproof option
- Wrong wiring protection

- Casambi to Dali/0-10V signal adaptor
 - Multiple profiles for DT6 & DT8
 - 50mA Dali power output
 - Protection against AC to Dali short circuit
 - Waterproof option
- Casambi到Dali或0-10V转换器
 - 支持DT6/DT8的多种配置
 - 内置50mA Dali电源
 - 错接保护功能
 - 防水版本可选



MODEL	Power voltage	Output	Dali power supply	Dimension	Waterproof
HCB30	AC 100-240V	DALI: DT6, DT8 broadcast or group. 0-10V: Source 50mA, Sink by 1.5K resistor	50mA	26x20x81mm	IP63
HCB30-S					IP68

Phase Cut Dimmer

切相调光器

- Smart control
- Dimming or ON/OFF
- Trailing edge phase cut
- Phase and fade adjustable

- AC phase cut dimmer or on/off control
 - Trailing edge phase cut
 - Min phase level / fade time adjustable
 - High spike current tolerant
 - Push button function
- 交流切相调光或开关功能
 - 后沿切相方式
 - 最低切相角与渐变速度可调
 - 耐受大冲击电流
 - 系统按键功能



MODEL	Power voltage	Output power	Min phase cut level	Auxiliary control	Dimension
APD03	AC 100-240V	300W @ 220V, PF=1	0-50% adjustable	Push button	48x24x48mm
APD05		500W @220V, PF=1			



Handheld Remote Controller
手持遥控器
CR03

- Full function Casambi remote controller
 - Ultra-slim design
 - With magnet wall holder
 - Scene / group control
 - Powered by cell battery
- 全功能Casambi遥控器
 - 超薄机身设计
 - 含磁吸底座
 - 场景及分组控制
 - 纽扣电池供电



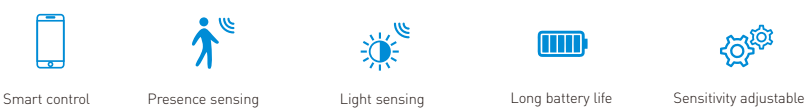
MODEL	Power supply	Control function	Installation	Dimension
CR03-M	CR2032 cell battery	On/off, up/down, left/right, 4 scene/group control	With magnet wall holder	36x9x134mm

Touch Wall Panel
触摸墙面遥控面板
CW03-A/B

- Full function Casambi control
 - Tempered glass panel
 - Easy pat turn-on
 - AC or cell battery power version
 - Scene / group control
- 全功能Casambi遥控
 - 钢化玻璃面板
 - 轻松拍即可开灯
 - 交流供电/纽扣电池
 - 场景及分组控制



MODEL	Power supply	Control function	Installation	Dimension
CW03-B	CR2032 cell battery	Touch sensing, with easy pat turn on feature	Surface mount	86x86x10mm
CW03-A	AC 100-240V		Into EU junction box	86x86x39mm



Passive Presence & Light Sensor
人体/光线感应器
PS02 / PS02-L / PS02-U

- Presence & light sensor
 - Dual battery options
 - Ultra long life battery option
 - Detection sensitivity adjustable
 - Light sensor enable / disable
- 人体及光线感应器
 - 单/双电池选项
 - 超长电池寿命版本
 - 感应灵敏度可调
 - 光感功能可开关



MODEL	Power supply	Presence detection	Sensitivity option	Installation	Dimension
PS02	CR2032 cell battery	Passive IR, max 8 meters, 120° range	3-level via app	Surface mount	60x60x20mm
PS02-L	Built-in CR2450 battery, auxiliary CR2032 cell battery				90.4x60x29.5mm
PS02-U	8500mAh battery pack base				

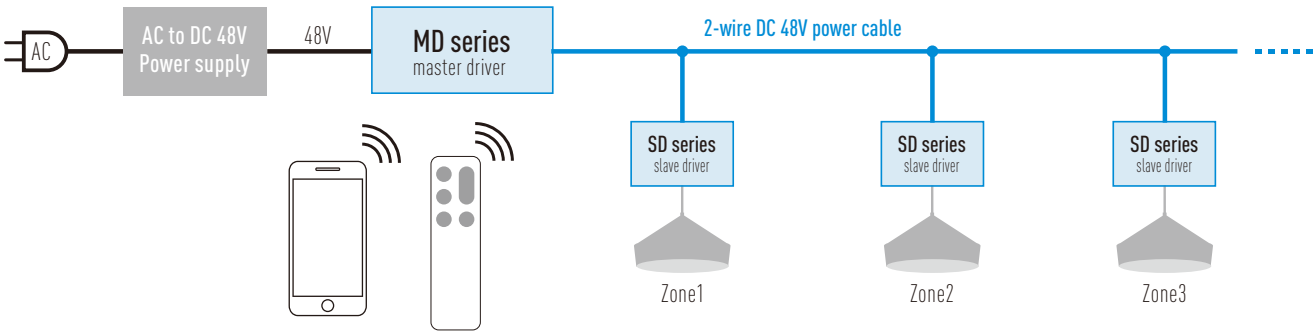
Microwave Presence & Light Sensor
微波存在/光线感应器
PSC01

- Microwave presence sensor
 - Accurate movement sensing
 - High accurate light sensing
 - Detection range adjustable
 - Ceiling installation
- 微波式主动传感
 - 精确运动感应
 - 高精度亮度采样
 - 存在感应范围可调
 - 天花嵌入式安装



MODEL	Power supply	Presence detection	Sensitivity option	Light sensing	Installation	Dimension
PSC01	AC 100-240V	24GHz microwave, 1-8 meters	5-level via app	0.1-65K lux	Ceiling recessed	D68xH37mm, Panel: D84mm

- Smart control
- Patent DC PLC
- User Parameters
- 2-in-1 Model
- Waterproof option



- Master-Slave scheme via patent DC PLC

■ EMI free, robust communication

■ Lighting fixture addressable

■ Full feature programmable
- 专利直流电源载波主从架构

■ 抗干扰能力强

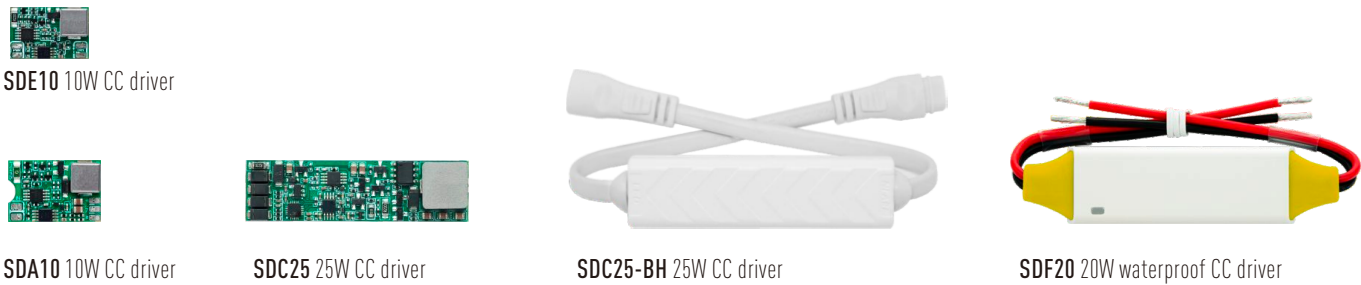
■ 灯具可寻址

■ 全功能可编程



MODEL	MD400CB(-S)	PD200CB(-S)	PD400CB-S
Working voltage	DC 48V	AC 100-240V	
Output voltage	same as input	DC 48V	
Rated output power	400W	200W	400W
Output signal	Digital PLC (Rayrun patent)		
Power factor	NA	>0.9 @ rated power	
Efficiency	>95%	>93%	
Standby power	<0.5W		
Working temperature (ta)	-20 - +50℃		
Case temperature (tc)	Max +90℃		
Control function	on/off, dimming, CCT, group, scene, slave driver setup		
Waterproof	IP63 / IP68 (-S model)	IP67 for -S model	IP67
Dimension (WHL)	26x20x81mm	61.5x39x138mm	90x44x163mm
Net weight	35g / 70g (-S model)	483g / 751g (-S model)	1418g

- Patent DC PLC
- Pure DC Dimming
- User Parameters
- 2-in-1 Model
- Waterproof option



- CC driver based on DC PLC protocol

■ Single color-CCT 2-in-1 model

■ Full DC drive, uA level deep dimming

■ Output voltage down to 0V, current 100mA and up

■ Output current programmable by App

■ Fade time, dimming curve adjustable by App
- 基于直流PLC控制的恒流驱动

■ 单色、冷暖白二合一机型

■ 全直流驱动, 微安级深度调光

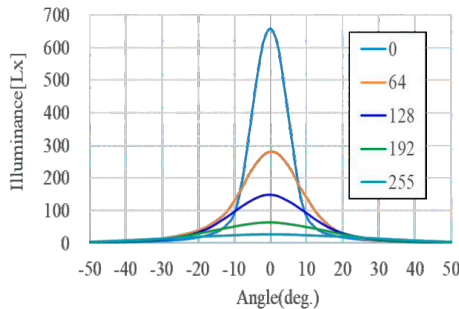
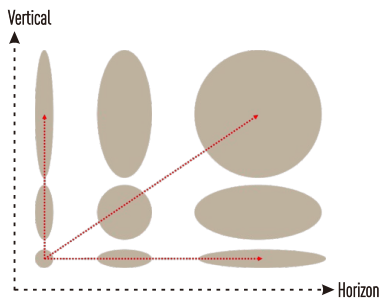
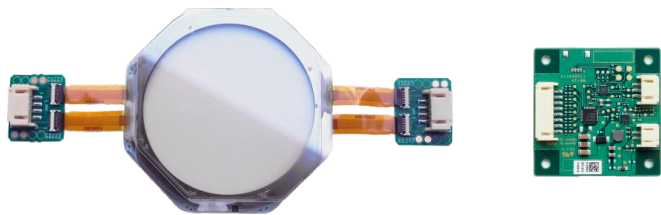
■ 输出电压0V起, 电流100mA起

■ 额定电流通过app设定

■ 渐变时间、调光曲线app可调

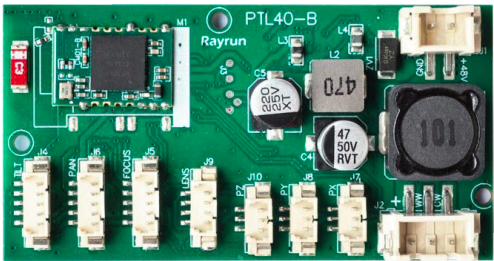
MODEL	SDE10	SDA10-B/E	SDF20-B/E(S)	SDC25-B/E	SDC25-BH/EH
Working voltage	DC 24-48V				
Rated output power	10W	10W	20W	25W	25W
Output channel	Single color	Single color & CCT variable (with suffix -B) / Single color (with suffix -E)			
Output voltage	0 to (Vin-2)V				
Rated output current	100-500mA, 1mA step programmable		100-700mA, 1mA step programmable	100-700mA, 1mA step programmable	
Dimming method	0-100% DC dimming				
Efficiency	>90% @ rated power				
Working temperature (ta)	-20 - +50℃				
Case temperature (tc)	NA		Max +90℃	NA	Max +90℃
Gradient speed	0-25.5 seconds configurable via master				
Output current trimming	100% to 50%, configurable via master				
Dimming curve	Linear, Logarithm, Optimized Logarithm				
Group feature	4-group, configurable via master				
Waterproof	NA		IP63/IP68(-S model)	NA	IP63
Product form	PCBA		Stand alone	PCBA	Stand alone
Dimension (WHL)	12.5x7x19mm	13.7x7x21mm	21x8.5x87mm	13.5x6x50mm	17x11.5x70mm

JDI LumiFree
2-way beam control E-lens



MODEL	HDN20CJ-B	HDL35CJ-B
Working voltage	AC 200-240V	
Rated output power	20W	35W
Output channel	LED: Single color & CCT variable Lens: 4pin connector to LumiFree control board	
Output voltage	0-50V	
Rated output current	100-1050mA, 13-level via profile	100-1400mA, 15-level via profile
Dimming method	0-100% DC dimming	
Power factor	>0.9 at rated power	
Efficiency	>85% @ rated power	
Working temperature (ta)	-20 - +50°C	
Case temperature (tc)	Max +90°C	
Gradient speed	0-25.5 seconds configurable from app	
Output current trimming	100% to 50%, configurable from app	
Dimming curve	Linear, Logarithm, Optimized Logarithm	
LumiFree control	X and Y direction	
Dimension (WHL)	31.5x24x125mm	41x30x150mm
Net weight	76g	125g

- 3-Axis step motor driving
- LumiFree E-lens option
- Accurate light beam control
- Durable mechanical design
- Reference design and driver solution
- 3轴步进电机驱动
- 集成LumiFree电子透镜
- 可实现光束精确控制
- 可靠持久的机械设计
- 灯具参考设计及驱动方案



PTL40 Motorized light driver module

Motorized.

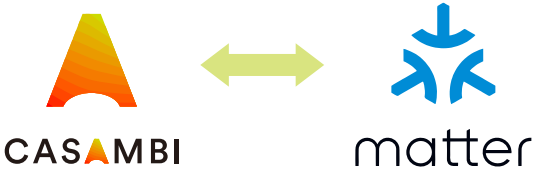


MODEL	PTL40CB-J	PTL40CB-M
Function	40W CCT motorized light driver with 3-way motor and LumiFree control	40W CCT motorized light driver with 3-way motor control
Working voltage	DC 48V	
Rated LED output power	40W	
Output channel	LED: 3-pin P2.54 connector, common anode Motor: 3x 5-pin P1.25 connector Lens: 4-pin P1.25 connector to LumiFree control board (-J model only)	
LED Output voltage	0-46V	
Rated LED output current	100-1050mA, app programmable	
Dimming method	0-100% DC dimming	
Working temperature (ta)	-20 - +50°C	
LED gradient speed	0-25.5 seconds configurable from app	
LED output current trimming	100% to 50%, configurable from app	
LED dimming curve	Linear, Logarithm, Optimized Logarithm	
Motor type	DC 12V 4-phase step motor with 5-pin 1.25mm pitch connector	
Max motor driving current	500mA / phase	
Motor movement control	3-axis. Pan, Tilt, Zoom	
LumiFree lens control	X and Y direction, direct drive	NA
Dimension (WHL)	34x10x64mm	



- CCT & RGBW smart bulb
- E27 socket, high power factor
- DC dimming, flicker free
- 600lm luminance output
- CCT及RGBW机型
- E27 螺口, 高功率因数
- 全直流调光, 无频闪
- 600流明光通量

MODEL	BC20	BC40
Function	Casambi CCT bulb	Casambi RGBW bulb
Working voltage	AC 200-240V	AC 200-240V
Rated LED output power	8.5W	8.5W
Power factor	>0.9 @ rated power	>0.9 @ rated power
Max luminous flux	> 600lm	> 600lm for white
Color range	2700-6000K	White: 4000K, RGB: full color
CRI	Ra>85	Ra>85 for white
Dimming method	0-100% DC dimming	0-100% DC dimming
Working temperature (ta)	-20 - +50°C	-20 - +50°C
Case temperature (tc)	Max +90°C	Max +90°C
Socket type	E27	E27
Dimension	D65xH119	D65xH119
Net weight	95g	95g



- Map Casambi items to Matter system
- Compatible to Apple, Google, Amazon
- Voice control via smart speakers
- Bridge Casambi to full smart home
- 将Casambi设备映射到Matter
- 兼容苹果、谷歌、亚马逊系统
- 可通过智能音箱声控
- 将Casambi接入全智能家居生态

MODEL	MTB10
Power supply	DC 5V/1A via type-c jack
Compatible Casambi device	Single color, CCT, RGB, RGBW, RGB+CCT luminaire; Presence & light sensor
Wireless connection	IEEE802.11b/g/n @ 2.4GHz, Bluetooth LE 4.0 and up
Compatible platform	Apple, Google, Amazon
Working temperature	-20 - +50°C
Dimension	65x65x20mm



DALI2.0 certified



2-in-1 Model



NFC setup



Pure DC Dimming



0-50V Output

Driver / Adaptor / Controller

Category	Model	Function	Power	Output
Stand-alone CC driver	HDN15DL-B/E	15W CC driver	AC 200-240V	0-50V, 100-700mA
	HDN20DL-B/E	20W CC driver	AC 200-240V	0-50V, 100-1050mA
	HDL35DL-B/E	35W CC driver	AC 200-240V	0-50V, 100-1400mA
	HDC50DL-B/E	50W CC driver	AC 200-240V	0-50V, 100-1400mA
AC Track CC driver	HDA35DL-B/E	35W AC track CC driver	AC 200-240V	0-50V, 100-1050mA
	HDE35DL-B/E	35W AC track CC driver	AC 200-240V	0-50V, 100-1050mA
DC Track CC driver	TDS15DL-B	15W DC track CC driver	DC 24-48V	0-(Vin-2)V, 50-500mA
	TDF15DL-B	15W DC track CC driver	DC 24-48V	0-(Vin-2)V, 50-500mA
	TDG15DL-B	15W DC track CC driver	DC 24-48V	0-(Vin-2)V, 50-500mA
	TDC25DL-B	25W DC track CC driver	DC 24-48V	0-(Vin-2)V, 50-700mA
Signal adaptor	HCB30(-S)	AC power Casambi to Dali adaptor	AC 100-240V	Dali signal with power / 0-10V
	TCB11	M11 Casambi to Dali adaptor	DC 24-48V	Dali signal with power supply
	TCB16	M16 Casambi to Dali adaptor	DC 24-48V	Dali signal with power supply
CV driver	VDA10024DL-E/U	100W CV driver	AC 200-240V	18-25V PWM, 4.2A
	VDA20024DL-E/U	200W CV driver	AC 200-240V	18-25V PWM, 8.3A
CV controller	XD60DL	6-in-1 PWM controller	DC 8-50V	5-ch (2-wire CCT) PWM, 5x8A



HDN15DL 15W CC driver



HDN20DL 20W CC driver



HDL35DL 35W CC driver



HDC50DL 50W CC driver

- Single color-CCT 2-in-1 model
- Full DC drive, uA level deep dimming
- Wide output voltage range down to 0V
- Full parameter programmable via NFC
- Dali address/group/scene programmable via NFC

- 单色、冷暖白二合一机型
- 全直流驱动，微安级深度调光
- 低至0V的宽输出电压范围
- 驱动参数通过NFC设定
- DALI地址、分组、场景可NFC编程

MODEL	HDN15DL-B/E	HDN20DL-B/E	HDL35DL-B/E	HDC50DL-B/E
Working voltage	AC 200-240V			
Rated output power	15W	20W	35W	50W
Output channel	Single color (with suffix -E) / Single color & CCT variable (with suffix -B), Programmable via NFC			
Output voltage	0-50V			
Rated output current	100-700mA, 1mA step	100-1050mA, 1mA step	100-1400mA, 1mA step	
Dimming method	0-100% DC dimming			
Power factor	>0.9 at rated power			
Efficiency	>85% @ rated power			
Standby power	<0.5W			
Working temperature (ta)	-20 - +50°C			
Case temperature (tc)	Max +90°C			
DALI standards	EN 62386-101,102,207,251,252,253			
NFC setup	Full driver and DALI parameters, via 'light NFC' app			
Dimension (WHL)	31.5x24x125mm		41x30x150mm	110x67x30mm
Net weight	76g	76g	125g	165g

AC track DALI Driver
交流轨道DALI驱动



HDA35DL 35W AC track driver



HDE35DL 35W AC track driver

- Single color-CCT 2-in-1 model
- Full DC drive, uA level deep dimming
- Wide output voltage range down to 0V
- Output current programmable by App
- Fade time, dimming curve adjustable by App
- CCT channel swappable by App

- 单色、冷暖白二合一机型
- 全直流驱动，微安级深度调光
- 低至0V的宽输出电压范围
- 额定电流通过app设定
- 渐变时间、调光曲线app可调
- 冷暖白通道可通过app切换

MODEL	HDA35DL-B/E(B/W)	HDE35DL-B/E(B/W)
Working voltage	AC 200-240V	
Rated output power	35W	
Output channel	Single color (with suffix -E) / Single color & CCT variable (with suffix -B)	
Output voltage	0-50V	
Rated output current	100-1050mA, 1mA step via NFC	
Dimming method	0-100% DC dimming	
Power factor	>0.9 at rated power	
Efficiency	>86% @ rated power	
Standby power	<0.5W	
Working temperature (ta)	-20 - +50°C	
Case temperature (tc)	Max +90°C	
DALI standards	EN 62386-101,102,207,251,252,253	
NFC setup	Full driver and DALI parameters, via 'light NFC' app	
Product form	With A.A.G. Stucchi 9999-DRI housing	With A.A.G. Stucchi 9409-DRI housing
Dimension (WHL)	14x28.8x306.7mm	32x42.4x214.3mm
Net weight	126g	122g

DC Track DALI driver
直流轨道DALI驱动



TDS15DL 15W DC track driver for A.A.G. 9619 housing



TDC25DL 25W DC track driver for A.A.G. 9519/9529 housing



TDF15DL 15W DC track driver for A.A.G. 9639 housing



TDG15DL 15W DC track driver for A.A.G. 9629 housing

- Single color-CCT 2-in-1 model
- Full DC drive, uA level deep dimming
- Wide output voltage range down to 0V
- NFC programming ready
- Current, Dali parameters programmable via NFC

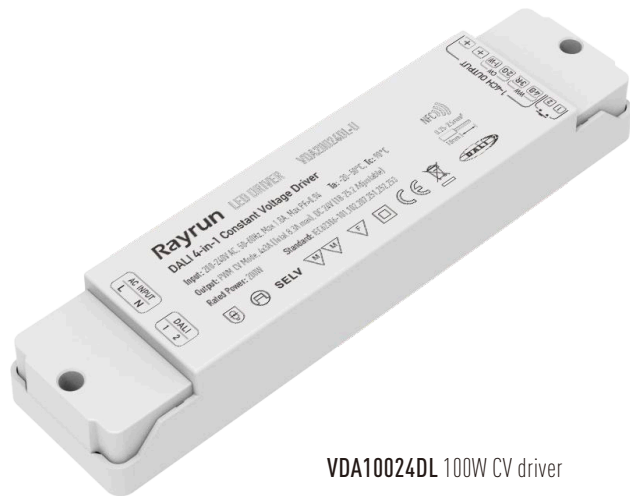
- 单色、冷暖白二合一机型
- 全直流驱动，微安级深度调光
- 低至0V的宽输出电压范围
- 具备NFC编程功能
- 输出电流、DALI参数可NFC编程

MODEL	TDS15DL-B/E	TDG15DL-B/E	TDF15DL-B/E	TDC25DL-B/E
Working voltage	DC 24-48V			
Rated output power	15W			25W
Output channel	Single color (with suffix -E) / Single color & CCT variable (with suffix -B), Programmable via NFC			
Output voltage	0 to (Vin-2V)			
Rated output current	50-500mA, 1mA step			50-700mA, 1mA step
Dimming method	0-100% DC dimming			
Efficiency	>90% @ rated power			
Standby power	<0.5W			
Working temperature (ta)	-20 - +50°C			
Case temperature (tc)	Max +90°C			
DALI standards	EN 62386-101,102,207,251,252,253			
NFC setup	Full driver and DALI parameters, via 'light NFC' app			
Product form	PCBA, fit for A.A.G. Stucchi 9619 housing	PCBA, fit for A.A.G. Stucchi 9629 housing	PCBA, fit for A.A.G. Stucchi 9639 housing	PCBA, fit for A.A.G. Stucchi 9519 housing
Dimension (WHL)	8x5x113.6mm	8x5x132.4mm	8x5x111.4mm	13.8x7x60mm
Net weight	3.6g	3.6g	3.5g	4.7g



- High power in compact size
- Single color to RGBW application
- Excellent efficiency, low standby power
- GaN components, high power density
- Full parameter programmable via NFC

- 大功率、小尺寸
- 适配单色到RGBW应用
- 高效率、低待机功耗
- 氮化镓器件，高功率密度
- 全参数可通过NFC设定



VDA10024DL 100W CV driver
VDA20024DL 200W CV driver

MODEL	VDA10024DL-U/E	VDA20024DL-U/E
Working voltage	AC 200-240V	
Rated output power	100W	200W
Output channel	Single color (-E) / 1-4 channel variable (-U), programmable via NFC	
Output voltage	Rated 24V, 18-25.2V programmable via NFC	
Rated output current	4.2A	8.3A
Dimming method	PWM, variable frequency	
Power factor	>0.9 at rated power	
Rated efficiency	>94%	>95%
Standby power	<0.5W	
Working temperature (ta)	-20 - +50°C	
Case temperature (tc)	Max +90°C	
Gradient speed	Adjustable, according to Dali protocol	
Output voltage trimming	75% to 105% of rated voltage, set via app	
PWM frequency	500Hz-20.9KHz, set via NFC	
Auxiliary control	Push button, via app	
DALI standards	EN 62386-101,102,207,251,252,253	
NFC setup	Full driver and DALI parameters, via 'light NFC' app	
Dimension (WHL)	43.5x25.5x180mm	
Net weight	220g	225g



- 6-in-1 full function CV controller
- NFC setup, full feature programmable
- Wide voltage range, high power
- 2-wire tunable white mode available
- Push connector, easy installation

- 6合1全功能恒压控制器
- 所有功能均可NFC编程
- 宽电源电压、高输出功率
- 具备两线CCT输出功能
- 便于安装的按压式接线端子

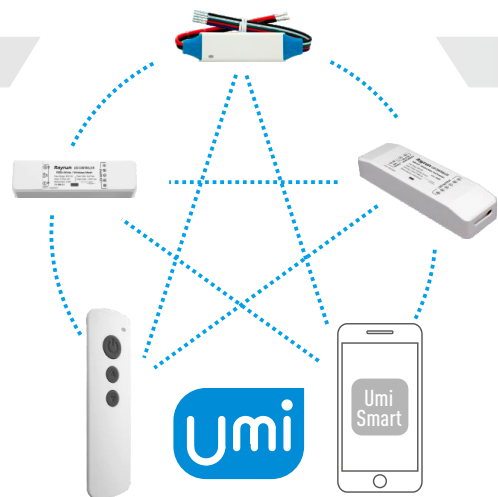


XD60DL-U 6-in-1 CV controller

MODEL	XD60DL-U
Working voltage	DC 8-50V
Output mode	Single color, 2-wire CCT, 3-wire CCT, RGB, RGBW, RGBCW, Dim to warm
Rated output current	5x8A, total max 24A
Standby power	<0.5W
Dimming method	PWM, variable frequency
Working temperature (ta)	-20 - +50°C
Case temperature (tc)	Max +90°C
Protection	Wrong wiring / Overload / Short circuit / Overheat
NFC setup	Full feature and DALI parameters, via 'light NFC' app
PWM frequency	500Hz-20.9KHz
DALI standards	EN 62386-101,102,207,251,252,253
Cable connector	Push connectors
Dimension (WHL)	39x24x134mm

Umi Smart Series
Umi智能系列

Driver / Controller /
Sensor / Control gear



Umi smart CC Driver
Umi 智能恒流驱动



HDN15UM 15W CC driver HDN20UM 20W CC driver HDL35UM 35W CC driver HDC50UM 50W CC driver

- Single color-CCT 2-in-1 model
 - Full DC drive, uA level deep dimming
 - Output range 0-50V, 100mA and up
 - Output current programmable by App
 - Fade time, dimming curve adjustable by App
- 单色、冷暖白二合一机型
 - 全直流驱动，微安级深度调光
 - 输出0-50V，电流低至100mA
 - 额定电流通过app设定
 - 渐变时间、调光曲线app可调

MODEL	HDN15UM-B/E	HDN20UM-B/E	HDL35UM-B/E	HDC50UM-B/E
Working voltage	AC 200-240V			
Rated output power	15W	20W	35W	50W
Output channel	Single color (with suffix -E) / Single color & CCT variable (with suffix -B)			
Output voltage	0-50V			
Rated output current	100-700mA, 10-level via app	100-1050mA, 13-level via app	100-1400mA, 15-level via app	
Dimming method	0-100% DC dimming			
Power factor	>0.9 at rated power			
Efficiency	>85% @ rated power			
Standby power	<0.5W			
Working temperature (ta)	-20 - +50℃			
Case temperature (tc)	Max +90℃			
Gradient speed	0-25.5 seconds configurable from app			
Output current trimming	100% to 50%, configurable from app			
Dimming curve	Linear, Logarithm, Optimized Logarithm			
Dimension (WHL)	31.5x24x125mm		41x30x150mm	110x67x30mm
Net weight	76g	76g	125g	165g

Category	Model	Function	Power	Output
Stand-alone CC driver	HDN15UM-B/E	15W CC driver	AC 200-240V	0-50V, 100-700mA
	HDN20UM-B/E	20W CC driver	AC 200-240V	0-50V, 100-1050mA
	HDL35UM-B/E	35W CC driver	AC 200-240V	0-50V, 100-1400mA
	HDC50UM-B/E	50W CC driver	AC 200-240V	0-50V, 100-1400mA
CV controller	XV50	5-ch 5-in-1 PWM controller	DC 8-50V	5-ch PWM, 5x8A
	XE50	5-ch 5-in-1 PWM controller	DC 5-24V	5-ch PWM, 5x8A
	MP10 / MPH10	Single color PWM controller	DC 6-24V / 8-50V	1-ch PWM, 1x12A / 1x6A
	MP20 / MPH20	CCT PWM controller	DC 6-24V / 8-50V	2-ch PWM, 2x7A / 2x3A
	MP21	2-wire CCT PWM controller	DC 12-24V	2-wire PWM, 7A
	MP30 / MPH30	RGB PWM controller	DC 6-24V / 8-50V	3-ch PWM, 3x5A / 3x2.5A
	MP40 / MPH40	4-ch 4-in-1 PWM controller	DC 6-24V / 8-50V	4-ch PWM, 5+3x3A / 2.5+3x1.5A
	NM10	Single color PWM controller	DC 5-24V	1-ch PWM, 1x10A
	NM20	CCT PWM controller	DC 5-24V	2-ch PWM, 2x5A
	NM21	2-wire CCT PWM controller	DC 5-24V	1-ch 2-wire CCT PWM, 1x7A
	NM30	RGB PWM controller	DC 5-24V	3-ch PWM, 3x4A
	NM40	4-ch 4-in-1 PWM controller	DC 5-24V	4-ch PWM, 4x3A
	TM10	Single color PWM controller	DC 5-24V	1-ch PWM, 1x6A
	TM20	CCT PWM controller	DC 5-24V	2-ch PWM, 2x4A
	TM21	2-wire CCT PWM controller	DC 5-24V	1-ch 2-wire CCT PWM, 1x3A
	TM30	RGB PWM controller	DC 5-24V	3-ch PWM, 3x3A
	TM40	RGBW PWM controller	DC 5-24V	4-ch PWM, 4x2A
Control gear	BW01-A/B	Rotary switch wall panel	3V cell battery	-----
	BW03-A/B	Full function touch wall panel	AC / 3V cell battery	-----
	BW05-A/B	Scene touch wall panel	AC / 3V cell battery	-----
	BR01	Multi-key handheld remote	3V cell battery	-----
	BR02	3-key handheld remote	3V cell battery	-----
	BR03-C/CG/S	6/10-key handheld remote	3V cell battery	-----
	BR06	Handheld remote for SPI control	3V cell battery	-----
	BR07	3-key wall remote	3V cell battery	-----
	BR11	1-key recessed remote	3V cell battery	-----
	BR17-30/40	RGB/RGBW touch remote	2xAAA battery	-----
Sensor	PS01	PIR sensor	3V cell battery	-----
	PSC04	Microwave sensor	AC 100-240V	-----
SPI controller	MP70	SPI controller	DC 5-24V	1/2 wire SPI signal, DMX512 signal



XV50/XE50 5-in-1 CV controller



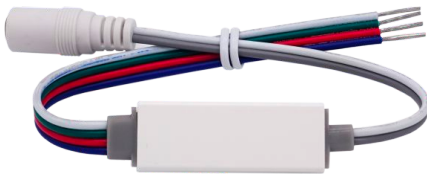
NM10-40 1-4ch CV controller

- Easy setup with remote controller and/or smartphone
 - Robust Umi wireless protocol based on Bluetooth
 - Single color to RGB+CCT models
 - 8-50V or 5-24V wide voltage range
 - Push/screw terminal, easy installation
 - Full protection feature
- 遥控器与手机可分别独立配置
 - 基于蓝牙Mesh的Umi无线通信协议
 - 单路到5路应用
 - 8-50 / 5-24V的宽幅输入电压
 - 按压/螺钉端子, 易安装
 - 全功能保护

MODEL	XV50(-A/T)	XE50(-A/T)	NM10(-A)	NM20(-A)	NM21(-A)	NM30(-A)	NM40(-A)
Working voltage	DC 8-50V	DC 5-24V					
Output mode	1-5ch. Single color, CCT, RGB, RGBW, RGB+CCT		Single color	CCT	2-wire CCT	RGB	RGBW
Rated output current	5x8A, total max 24A		10A	2x5A	7A	3x4A	4x3A
Wireless connection	Umi protocol based on SIG Bluetooth mesh						
Wireless band	2.4GHz ISM band, <8dBm						
Smart phone function	Umi smart app for -A models						
Timing play	Real time clock timing play for -T models						
Dimming method	PWM, variable frequency						
Standby power	<0.5W						
Protection	Wrong wiring / Overload / Short circuit / Overheat						
Working temperature (ta)	-20 - +50℃						
Case temperature (tc)	Max +90℃						
Gradient speed	6-level, from direct to very slow						
PWM frequency	498Hz-20.9KHz	498Hz-6.3KHz	500Hz-4KHz				
Connector	Push connectors		Screw terminals				
Dimension (WHL)	39x24x134mm		24x15x87mm				



MP/MPH series 1-4ch CV controller



TM series 1-4ch CV controller

- Easy setup with remote controller and/or smartphone
 - Robust Umi wireless protocol based on Bluetooth
 - Single color to RGBW models
 - 8-50V / 5-24V wide voltage range
 - Compact size, waterproof option
 - Full protection feature
- 遥控器与手机可分别独立配置
 - 基于蓝牙Mesh的Umi无线通信协议
 - 单色到RGBW应用
 - 8-50 / 5-24V的宽幅输入电压
 - 小尺寸、可选防水版本
 - 全功能保护

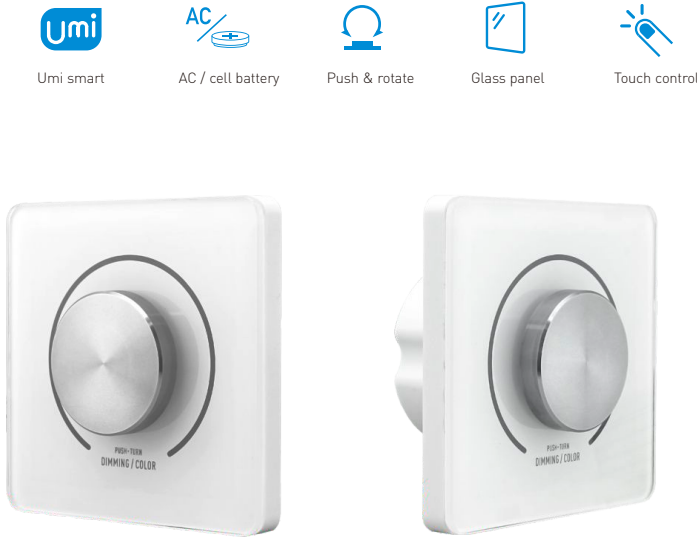
MODEL	MP10/20/30/40(-A/T/S)	MPH10/20/30/40(-A/T/S)	TM10/20/21/30/40(-A)
Working voltage	DC 6-24V	DC 8-50V	DC 5-24V
Output mode	model number 10: Single color; 20: CCT; 21: 2-wire CCT; 30: RGB; 40: RGBW		
Rated output current	1x12A, 2x7A, 3x5A, 3x3+5A	1x6A, 2x3A, 3x2.5A, 3x1.5+2.5A	1x6A, 2x4A, 3A, 3x3A, 4x2A
Wireless connection	Umi protocol based on SIG Bluetooth mesh		
Wireless band	2.4GHz ISM band, <7dBm		
Smart phone function	Umi smart app for -A models		
Timing play	Real time clock timing play for -T models		NA
Dimming method	PWM, variable frequency		PWM, 1KHz
Standby power	<0.5W		
Protection	Wrong wiring / Overload / Short circuit / Overheat		Wrong wiring / Overheat
Working temperature (ta)	-20 - +50℃		
Case temperature (tc)	Max +90℃		
Gradient speed	6-level, from direct to very slow		
PWM frequency	498Hz-20.9KHz		1KHz
Waterproof	IP63 / IP68(-S model)		IP20
Dimension (WHL)	21x8.5x87mm		15x7x50mm

Rotary Wall Switch

墙面旋钮开关

BW01-A/B

- Tempered glass panel
 - AC or cell battery power version
 - Single color to RGBCW application
 - Synchronized with app
- 钢化玻璃面板
 - 交流供电/纽扣电池版本
 - 支持单色到5色应用
 - 与app同步操作



Touch Wall Panel

触摸墙面遥控面板

BW03-A/B

- Tempered glass panel
 - Easy pat on/off control
 - AC or cell battery power version
 - Single color to RGBCW application
 - Synchronized with app
- 钢化玻璃面板
 - 轻松拍即可开关灯
 - 交流供电/纽扣电池版本
 - 支持单色到5色应用
 - 与app同步操作



Scene Touch Wall Panel

墙面触摸场景面板

BW05-A/B

- Tempered glass panel
 - Scene control
 - AC or cell battery power version
 - Synchronized with app
- 钢化玻璃面板
 - 场景开关控制
 - 交流/纽扣电池供电
 - 与app同步操作



Passive Presence & Light Sensor

人体及光线感应器

PS01 / PS01-L

- Presence & light sensor
 - Dual battery options
 - 5-year battery life
 - Detection sensitivity adjustable
 - Light sensor enable / disable
- 人体及光线感应器
 - 单/双电池选项
 - 电池寿命长达5年
 - 感应灵敏度可调
 - 光感功能可开关



MODEL	Power supply	Presence detection	Sensitivity option	Installation	Dimension
PS01	CR2032 cell battery	Passive IR, max 8 meters, 120° range	3-level via app	Surface mount	60x60x20mm
PS01-L	Built-in CR2450 battery, auxiliary CR2032 cell battery				

Microwave Presence & Light Sensor

微波存在/光线感应器

PSC04

- Microwave presence sensor
 - Accurate movement sensing
 - High accurate light sensing
 - Detection sensitivity adjustable
 - Ceiling installation
- 微波式主动传感
 - 精确运动感应
 - 高精度亮度采样
 - 存在感应灵敏度可调
 - 天花嵌入式安装



MODEL	Power supply	Presence detection	Sensitivity option	Light sensing	Installation	Dimension
PSC04	AC 100-240V	24GHz microwave, 1-8 meters	5-level via app	0.1-65K lux	Ceiling recessed	D68xH37mm, Panel: D84mm

Handheld Remote Controller
手持遥控器

BR02-C

- Single color to RGBCW application
- CR2032 cell battery powered
- Synchronized with app
- Optional magnet wall holder
- 支持单色到5色应用
- CR2032纽扣电池供电
- 与App同步操作
- 可选磁吸底座



Handheld Remote Controller
手持遥控器

BR03-11, BR03-1G, BR03-C, BR03-CG

- Single color to RGBCW application
- CR2032 cell battery powered
- Synchronized with app
- Group & scene function
- Optional magnet wall holder
- 支持单色到5色应用
- CR2032纽扣电池供电
- 与App同步操作
- 分组及场景功能
- 可选磁吸底座

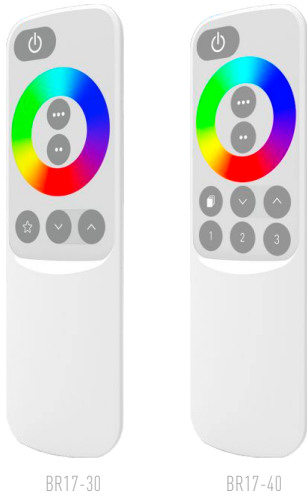


BR03-C BR03-CG

Touch Remote Controller
触摸遥控器

BR17-30, BR17-40

- Full touch control
- 2x "AAA" battery powered
- Synchronized with app
- RGB & RGBW application
- 全触摸操作
- 两节7号电池供电
- 与app同步操作
- RGB与RGBW功能



BR17-30 BR17-40

Wall Remote Controller
贴墙遥控器

BR07-C

- Single color to RGBCW application
- CR2032 cell battery powered
- Synchronized with app
- 支持单色到5色应用
- CR2032纽扣电池供电
- 与App同步操作



Slim Handheld Remote Controller
卡片式手持遥控器

BR01-11, BR01-20, BR01-30, BR01-40



BR01-11 BR01-20 BR01-30

Recessed Remote Controller
嵌入式安装遥控器

BR11-C

- CR2032 cell battery powered
- Single color to RGBCW application
- Synchronized with app
- CR2032纽扣电池
- 支持单色到5色应用
- 与App同步操作



Zigbee3.0 Series
Zigbee3.0系列

- 3.0

Zigbee 3.0
- 

Cell battery powered
- 5in1

Multi-function
- 

Magnet wall holder

- 3.0

Zigbee 3.0
- 

Advanced features
- 

Full protection
- 

Waterproof option
- 

Compact size

Handheld Remote Controller
手持遥控器

ZR02

- Single color to RGBCW application

■ CR2032 cell battery powered

■ Dimming and color control

■ Optional magnet wall holder
- 支持单色到5色应用

■ CR2032纽扣电池供电

■ 可调亮度与颜色

■ 可选磁吸底座



Handheld Remote Controller
手持遥控器

ZR03

- Single color to RGBCW application

■ CR2032 cell battery powered

■ Dimming and color control

■ Optional magnet wall holder
- 支持单色到5色应用

■ CR2032纽扣电池供电

■ 可调亮度与颜色

■ 可选磁吸底座



Recessed remote controller
嵌入式安装遥控器

ZR11

- CR2032 cell battery powered

■ Single color to RGBCW application

■ Dimming and color control
- CR2032纽扣电池

■ 支持单色到5色应用

■ 可调亮度与颜色



- Zigbee 3.0 protocol

■ Single color to RGB+CCT models

■ Full protection, waterproof option

■ Compact size, easy installation
- 基于Zigbee3.0标准

■ 单路到5路应用

■ 全功能保护,防水选项

■ 小尺寸、易安装



ZX50 5-in-1 CV controller



ZA series CV controller



ZT series CV controller

MODEL	ZX50	ZA10/20/21/30/40(-S)	ZT10/20/21/30/40
Working voltage	DC 6-24V	DC 6-24V (12-24V for ZA21)	DC 5-24V (12-24V for ZT21)
Output mode	model number 10 : Single color; 20 : CCT; 21 : 2-wire CCT; 30 : RGB; 40 : RGBW, 50 : 5-in-1		
Rated output current	5x8A, max 24A total	1x12A, 2x7A, 3x5A, 3x3+5A	1x6A, 2x4A, 3A, 3x3A, 4x2A
Wireless connection	Zigbee 3.0 protocol		
Wireless band	2.4GHz ISM band, <8dBm		
Smart phone function	Via Zigbee3.0 compatible gateway & apps		
Standby power	<0.5W		
Protection	Wrong wiring / Overload / Short circuit / Overheat		Wrong wiring / Overheat
Working temperature (ta)	-20 - +50℃		
Case temperature (tc)	Max +90℃		
PWM frequency	1KHz default, 498-20.9KHz optional		1KHz
Waterproof	IP20	IP63 / IP68(-S model)	IP20
Connector	Push connector	Lead wire	
Dimension	39x24x134mm	21x8.5x87mm	15x7x50mm

Tuya Smart Series
Tuya 智能系列



- Tuya Wi-Fi, Zigbee, Bluetooth solutions
- Single color to RGBCW models
- Optional remote controller and press key control
- Advanced user parameters
- Full protection feature

- 涂鸦WiFi、Zigbee及蓝牙方案
- 包含单色到5色机型
- 可选配遥控器及本机按键功能
- 高级用户参数
- 全功能保护



NT series CV Controller
NT系列恒压控制器



MODEL	NT12	NT20	NT30	NT40	NT50
Output mode	Single color	CCT	RGB	RGBW	RGB+CCT
Smart protocol	Defined by suffix, W: Tuya Wifi; Z: Tuya Zigbee; B: Tuya Bluetooth				
Working voltage	DC 12-24V				
Rated output current	10A	2x5A	3x4A	4x3A	5x2A
Remote control	RF 433MHz, <7dBm				
Protection	Wrong wiring / Overload / Short circuit / Overheat				
Working temperature (ta)	-20 - +50°C				
Case temperature (tc)	Max +90°C				
Gradient speed	6-level, from direct to very slow				
PWM frequency	1KHz				
Connector	Screw terminals				
Dimension (WHL)	24x15x87mm				

Tuya CV Controller
涂鸦恒压控制器



5-in-1 CV Controller
5合1恒压控制器



TT series CV Controller
TT系列恒压控制器



MODEL	XTE50	K50	TT10	TT12	TT40
Output mode	1-5ch. Single color, CCT, RGB, RGBW, RGB+CCT		Single color	Single color	RGBW
Smart protocol	Defined by suffix, W: Tuya Wifi; Z: Tuya Zigbee; B: Tuya Bluetooth				
Working voltage	DC 12-24V				
Rated output current	5x8A, total max 24A		1x6A	1x6A	4x2A
Remote control	Umi protocol	RF 433MHz			
Protection	Full protection		Wrong wiring, overheat protection		
Working temperature (ta)	-20 - +50°C				
Case temperature (tc)	Max +90°C				
Gradient speed	6-level, from direct to very slow				
PWM frequency	498Hz-6.3KHz	1KHz			
Connector	Push connector		Lead wire		
Output mode selection	via Umi protocol	DIP switch	NA		
Auxiliary control	Push button	NA			
Dimension (WHL)	39x24x134mm		20.5x8.7x60mm		

Classic RF Remote Series
经典RF遥控系列

P series RF CV controllers
P系列RF恒压控制器

Category	Model	Function	Working voltage	Output
Standard CV controller	K50	5-in-1 CV controller	DC 12-24V	1-5 ch PWM, 5x8A
	N10/N11/N12	Single color controller/dimmer	DC 5-24V	1-ch PWM, 10A
	N20	CCT PWM controller	DC 5-24V	2-ch PWM, 2x5A
	N21	2-wire CCT PWM controller	DC 5-24V	1-ch 2-wire CCT PWM, 1x5A
	N30	RGB PWM controller	DC 5-24V	3-ch PWM, 3x4A
	N40	RGBW PWM controller	DC 5-24V	4-ch PWM, 4x3A
Waterproof CV controller	P10/11/12	Single color controller/dimmer	DC 5-24V	1-ch PWM, 1x15A
	P20	CCT PWM controller	DC 5-24V	2-ch PWM, 2x7A
	P21	2-wire CCT PWM controller	DC 5-24V	1-ch 2-wire CCT PWM, 1x7A
	P30	RGB PWM controller	DC 5-24V	3-ch PWM, 3x5A
	P40	RGBW PWM controller	DC 5-24V	4-ch PWM, 4+3x2.5A
Mini CV controller	T110/T111/T112	Single color controller/dimmer	DC 5-24V	1-ch PWM, 1x5A
	T120	CCT PWM controller	DC 5-24V	2-ch PWM, 2x3A
	T122	2-wire CCT PWM controller	DC 5-24V	1-ch 2-wire CCT PWM, 1x3A
	T130	RGB PWM controller	DC 5-24V	3-ch PWM, 3x2A
	T140	RGBW PWM controller	DC 5-24V	4-ch PWM, 4x2A
CV control module	T240	Micro RGBW PWM controller	DC 5-24V	4-ch PWM, 4x1.5A
SPI controller	T710	SPI controller	DC 12-24V	SPI signal
Handheld remote	RM05/12/16	Handheld remote controller	3V cell battery	----
	RM17	Touch remote controller	2xAAA battery	----
Wall remote	RM07	Wall remote controller	3V cell battery	----



P10 single color controller P11 single color dimmer P12 single color dimmer P20/P21 CCT controller P30 RGB controller P40 RGBW controller

- Compact size, space saving
 - RF remote with magnet holder
 - Single color to RGB+W solutions
 - Full color status indicator
 - Waterproof option
 - Full protection feature
- 小型化设计
 - 磁吸无线遥控器
 - 单色到四色多种机型
 - 全彩指示灯
 - 防水版本可选
 - 全功能保护

K50 5-in-1 CV Controller
K50 5合1恒压控制器



MODEL	Power input	Output current	Function	Connector	Dimension
K50	DC 12-24V	5x8A, total max 24A	Single color, CCT, RGB, RGBW, RGBCCT variable by DIP switch	Push connector	39x24x134mm

MODEL	P10/P11/P12	P20	P21	P30	P40
Output mode	Single color	CCT	2-wire CCT	RGB	RGBW
Working voltage	DC 5-24V				
Rated output current	15A	2x7A	7A	3x5A	4+3x2.5A
Remote control	RF 433MHz, <10dBm				
Remote pairing	1:1 paired, 1 receiver can be paired with max 5 remote controllers				
Protection	Wrong wiring / Overload / Short circuit / Overheat				
Working temperature (ta)	-20 - +50°C				
Case temperature (tc)	Max +90°C				
PWM frequency	1KHz default, 500-4000Hz optional				
Waterproof	IP63 / IP68(-S model)				
Dimension (WHL)	21x8.5x87mm				

N series RF CV controllers

N系列RF恒压控制器



- Single color to RGB+W solutions
 - Compact size, space saving
 - RF remote control with optional magnet holder
 - Clip cap and screw terminal installation
 - Full protection feature
- 单色、冷暖白、RGB、RGBW机型
 - 小型化设计、便于安装
 - 可选磁吸的无线遥控器
 - 卡扣式电缆紧固
 - 全功能保护

MODEL	N10/N11/N12	N20	N21	N30	N40
Output mode	Single color	CCT	2-wire CCT	RGB	RGBW
Working voltage	DC 5-24V				
Rated output current	10A	2x5A	5A	3x4A	4x3A
Remote control	RF 433MHz, <10dBm				
Remote pairing	1:1 paired, 1 receiver can be paired with max 5 remote controllers				
Protection	Wrong wiring / Overload / Short circuit / Overheat				
Working temperature (ta)	-20 - +50℃				
Case temperature (tc)	Max +90℃				
PWM frequency	1KHz				
Waterproof	IP20				
Dimension (WHL)	24x15x87mm				

T series RF CV controllers

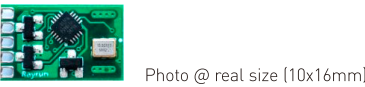
T系列RF恒压控制器



- Single color to RGB+W solutions
 - Ultra compact size, space saving
 - RF remote control with optional magnet holder
 - Various cable option
 - Overheat protection feature
- 单色、冷暖白、RGB、RGBW机型
 - 极致小型化设计、便于安装
 - 可选磁吸的无线遥控器
 - 多种电缆类型可选
 - 过热保护功能

MODEL	T110/111/112	T120	T122	T130	T140
Output mode	Single color	CCT	2-wire CCT	RGB	RGBW
Working voltage	DC 5-24V				
Rated output current	5A	2x3A	3A	3x2A	4x2A
Remote control	RF 433MHz, <10dBm				
Remote pairing	1:1 paired, 1 receiver can be paired with max 5 remote controllers				
Protection	Wrong wiring / Overheat				
Working temperature (ta)	-20 - +50℃				
Case temperature (tc)	Max +90℃				
PWM frequency	1KHz				
Waterproof	IP20				
Dimension (WHL)	15x7x51mm				

Micro RF RGBW control module
微型无线RGBW控制模块
T240



MODEL	Power input	Output current	Function	Installation	Protection	Dimension
T240	DC 5-24V	4X2A	RF remote RGBW CV module	Direct on board	Overheat	10x3x16.5mm



Push-button Dimmer
按钮式调光器
R2021 / N2021



MODEL	Power input	Output current	Function	Installation	Protection	Dimension
R2021	DC 5-24V	8A	Press-key on/off, dimming	Lead wire	Full protection	12x5x46mm
N2021	DC 5-24V	10A	Press-key on/off, dimming	Screw connector	Full protection	24x15x87mm



- Classic 433MHz RF remote controller
 - Economy wireless control solution
 - Easy pairing method
 - Optional magnet wall holder
- 经典433MHz无线遥控器
 - 高性价比无线控制方案
 - 可灵活配对
 - 可选磁吸安装底座



MP70 Umi smart SPI controller
MP70 Umi智能SPI幻彩器

- Umi Smart app & remote control
 - 672 dynamic effects
 - Support RGB & RGBW effects
 - 1000 dots addressable
 - Editable favourite library
- Umi遥控器及app控制
 - 672种播放效果
 - 支持RGB及RGBW效果
 - 可驱动1000点
 - 可编辑用户库



T710 RF SPI Controller
T710遥控幻彩控制器

- Easy using RF remote controller
 - 594 dynamic effects
 - 200 dots addressable
 - Editable favourite library
 - Editable loop function
- 易用的无线遥控器
 - 594种播放效果
 - 可驱动200像素点
 - 可编辑的快捷模式
 - 循环播放可编辑



MODEL	Power input	Wireless	Data format	Effects	Driving range	Waterproof	Dimension
MP70	DC 5-24V	Umi Smart, app & remote	1/2-wire SPI, DMX512	RGB/RGBW, 672-program	1000 pixels	IP63 / IP68(-S)	21x8.5x87mm
T710	DC 12-24V	RF remote control	1-wire SPI	RGB, 594-program	200 pixels	IP20	15x7x51mm



- Regenerate constant voltage driving signal
 - Low phase shift, long cascading ability
 - Single color to RGBW solution
 - Full protection, waterproof option
 - Wide voltage range
- 再生恒压LED驱动信号
 - 低时延,可多级级联
 - 单路、双路、RGB、RGBW机型
 - 全功能保护、具备防水版本
 - 宽工作电压范围

Pro series CV Amplifier
Pro系列恒压放大器

Nano series CV Amplifier
Nano系列恒压放大器

XA series CV Amplifier
XA系列恒压放大器



MODEL	Power input	Function	Output Current	Connector	Waterproof	Dimension
R2032	DC 5-24V	Single color	1x15A	Lead wire	IP63 / IP68(-S)	21x8.5x87mm
R2035	DC 5-24V	CCT	2x7A	Lead wire	IP63 / IP68(-S)	21x8.5x87mm
R203	DC 5-24V	RGB	3x5A	Lead wire	IP63 / IP68(-S)	21x8.5x87mm
RQ203	DC 5-24V	RGBW	4+3x2.5A	Lead wire	IP63 / IP68(-S)	21x8.5x87mm
AN10	DC 5-24V	Single color	1x10A	Screw connector	IP20	24x15x87mm
AN20	DC 5-24V	CCT	2x5A	Screw connector	IP20	24x15x87mm
AN30	DC 5-24V	RGB	3x4A	Screw connector	IP20	24x15x87mm
XA40	DC 5-24V	1-4ch	4x8A, total max 24A	Push connector	IP20	39x24x134mm