

Rayrun

CASAMBI

Series Products

Rayrun

Rayrun Technology Co., Ltd.

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2025



Smart control



2-in-1 Model



Pure DC Dimming



User Parameters



0-50V Output



HDN15 15W CC driver



HDN20 20W CC driver



HDL35 35W CC driver



HDC50 50W CC driver

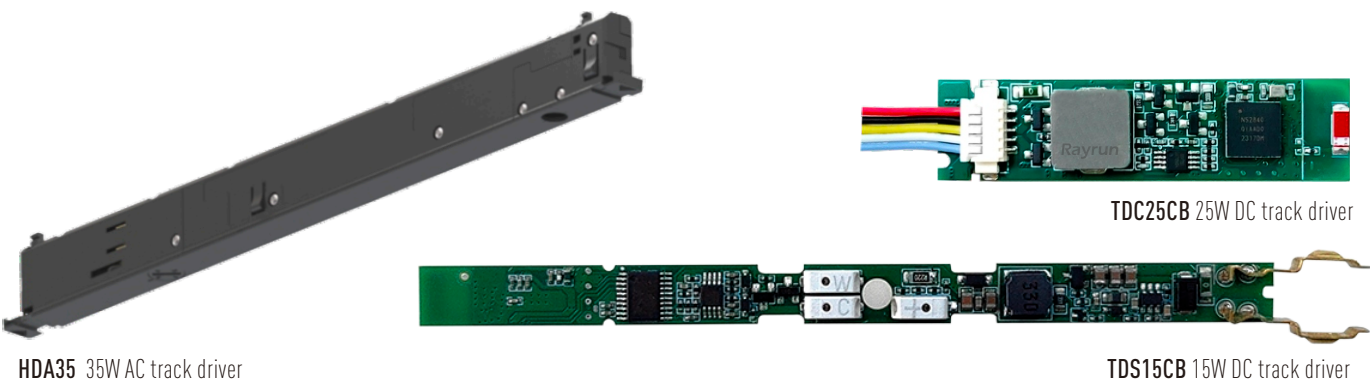
- Single color-CCT 2-in-1 one model
- Full DC drive, uA level deep dimming
- Output range 0-50V, 100mA and up
- Output current programmable by App
- Fade time, dimming curve adjustable by App
- CCT channel swappable by App

MODEL	HDN15CB-B/E	HDN20CB-B/E	HDL35CB-B/E	HDC50CB-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 profile	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			
Standby power	<0.5W			
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			
Output channel swap	Configurable for 2-in-1 model, via app			
Dimension (WHL)	31.5x24x125mm		41x30x150mm	110x67x30mm
Net weight	76g	76g	125g	165g

Driver / Controller / Sensor / Control gear / Bridge

Category	Model	Function	Power Input	Output
Stand-alone CC driver	HDN15CB-B/E	15W CC driver	AC 200-240V	0-50V, 100-700mA
	HDN20CB-B/E	20W CC driver	AC 200-240V	0-50V, 100-1050mA
	HDL35CB-B/E	35W CC driver	AC 200-240V	0-50V, 100-1400mA
	HDC50CB-B/E	50W CC driver	AC 200-240V	0-50V, 100-1400mA
Track CC driver	HDA35CB-B/E	35W AC track CC driver	AC 200-240V	0-50V, 100-1400mA
	TDS15CB-B	15W DC track CC driver	DC 24-48V	0-50V, 100-500mA
	TDC25CB-B	25W DC track CC driver	DC 24-48V	0-50V, 100-700mA
Signal adaptor	HCB30(-S)	Dali/0-10V adaptor	AC 100-240V	Dali/0-10V signal
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
	VDA15024CB-E/U	150W CV driver	AC 200-240V	18-25V PWM, 6.3A
	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	SDA10-E/B	10W PLC slave driver	DC 48V	0-46V, 100-400mA
	SDC25-E/B(H)	25W PLC slave driver	DC 48V	0-46V, 100-700mA
	SDF20-E/B(S)	20W PLC slave driver	DC 48V	0-46V, 100-700mA
CV controller	XB50	5-ch PWM controller	DC 8-50V	5-ch 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 / 3Vcell batt.	-----
Sensor	PS02(-L)	PIR sensor	3V cell battery	-----
	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
	HDC50CJ-B	50W 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	-----

Casambi track CC Driver



- Single color-CCT 2-in-1 one 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
- CCT channel swappable by App

MODEL	HDA35CB-B/E(B/W)	TDS15CB-B	TDC25CB-B
Working voltage	AC 200-240V	DC 24-48V	
Rated output power	35W	15W	25W
Output channel	Single color (with suffix -E) / Single color & CCT variable (with suffix -B)		
Output voltage	0-50V	0 to (Vin-2V)	
Rated output current	100-1050mA, 13-level via profile	100-500mA, 8-level via profile	100-700mA, 10-level via profile
Dimming method	0-100% DC dimming		
Power factor	>0.9 at rated power	NA	
Efficiency	>85% @ rated power	>90% @ rated power	
Standby power	<0.5W		
Working temperature (ta)	- 20 - +50°C		
Case temperature (tc)	Max +90°C	NA	
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 Stucchi 9999-DRI housing	PCBA, fit for Stucchi 9619 housing	PCBA, fit for Stucchi 9519/9529 housing
Dimension (WHL)	14x28.8x306.7mm	8x5x113.6mm	13.5x7x54.4mm
Net weight	124g	3.6g	4.5g

Casambi 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

MODEL	VDA10024CB-U/E	VDA15024CB-U/E	VDA20024CB-U/E	VD200CB(-S)	VD400CB-S
Working voltage	AC 200-240V			AC 100-240V	
Rated output power	100W	150W	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	6.3A	8.3A	8.3A	16.7A
Dimming method	PWM, variable frequency				
Power factor	>0.9 at rated power				
Rated efficiency	>94%	>95%	>95%	>93%	>93%
Standby power	<0.5W				
Working temperature (ta)	-20 - +50°C				
Case temperature (tc)	Max +90°C				
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	225g	360g	855g

Casambi CV Controller


Smart control


5-in-1 Model


User Parameters


PWM freq. adjustable


Waterproof option


Compact size



XB50 5-ch 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 series
- Compact size, easy installation
- Full protection feature

MODEL	XB50	NB.1	PB.0-S
Working voltage	DC 8-50V	DC 6-24V	
Output mode	1-5ch. Single color, CCT, RGB, RGBW, RGB+CCT profiles	1-4ch. Single color, CCT, RGB, RGBW profiles	
Rated output current	5x8A, total max 24A	4x3A	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	498Hz-20.9KHz, set via app	500Hz-4KHz, set via app	
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


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



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


Smart control


Dimming or ON/OFF


Trailing edge phase cut


Phase range adjustable

- AC phase cut dimmer or on/off control
- Trailing edge phase cut
- Minimum phase level adjustable via app
- High spike current tolerant
- Push button function



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			



Touch Wall Panel
CW03-A/B

- Full function Casambi control
- Tempered glass panel
- Easy pat turn-on
- AC or cell battery power version
- Scene / group control



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

Handheld Remote Controller
CR03

- Full function Casambi remote controller
- Ultra-slim design
- With magnet wall holder
- Scene / group control
- Powered by cell battery



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



Passive Presence & Light Sensor
PS02 / PS02-L

- Presence & light sensor
- Dual battery options
- 5-year battery life
- Detection sensitivity adjustable
- Light sensor enable / disable



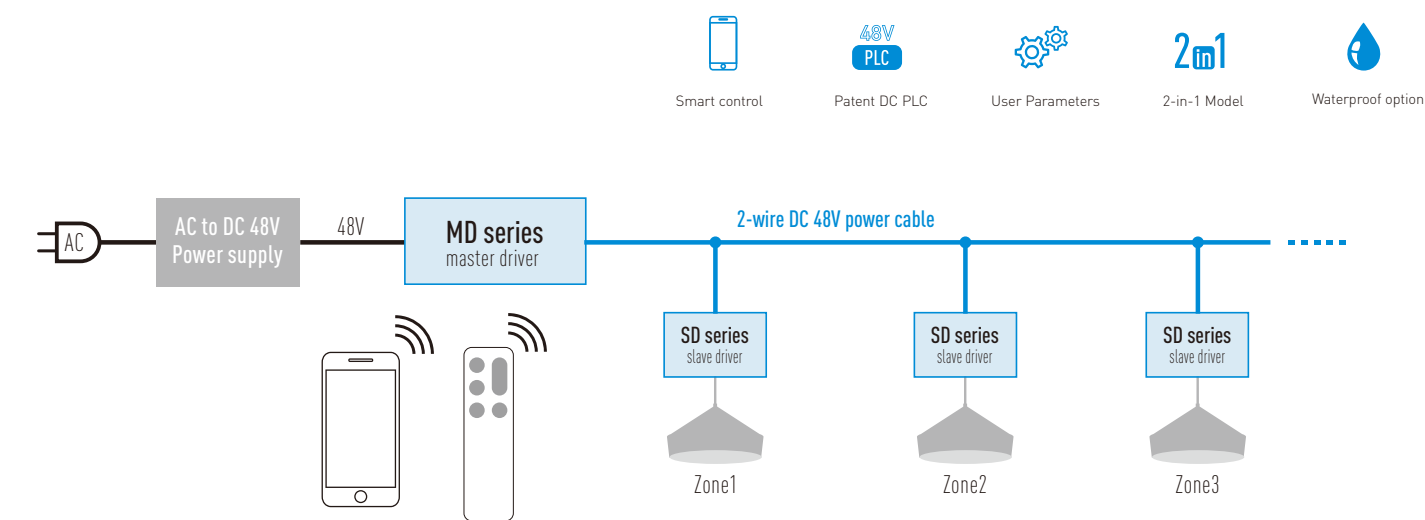
MODEL	Power supply	Presence detection	Sensitivity option	Installation	Dimension
PS02	CR2032 cell battery	Passive IR, max 8 meters, 120° range	3-level via app	Surface mount	60x60x20mm
PS02-L	Built-in CR2450 battery, auxiliary CR2032 cell battery				

Microwave Presence & Light Sensor
PSC01

- Microwave presence sensor
- Accurate movement sensing
- High accurate light sensing
- Detection sensitivity adjustable
- Ceiling installation



MODEL	Power supply	Presence detection	Sensitivity option	Light sensing	Installation	Dimension
PSC01	AC 100-240V	24GHz microwave, 0.2-8 meters, 120° range	3-level via app	0.1-65K lux	Ceiling recessed	D68xH37mm



- Master-Slave scheme via patent DC PLC
- EMI free, robust communication
- Lighting fixture addressable
- Full feature programmable



MODEL	MD400CB(-S)	PD200CB(-S)	PD400CB-S
Working voltage	DC 48V	AC 100-240V	
Output voltage	DC 48V	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	45g / 65g(-S model)	483g / 751g (-S model)	1418g

- 48V PLC Patent DC PLC
- μDC Pure DC Dimming
- User Parameters
- 2in1 2-in-1 Model
- Waterproof option

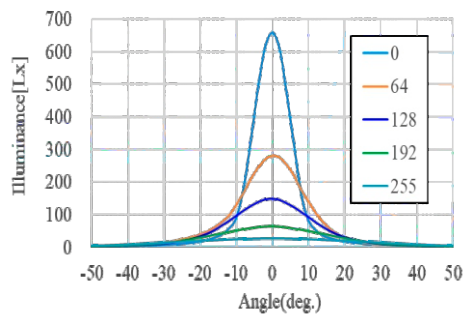
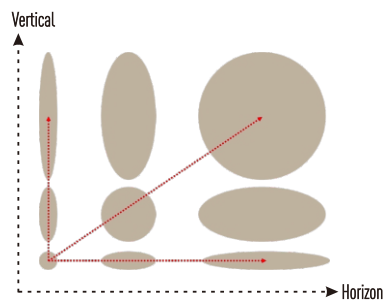
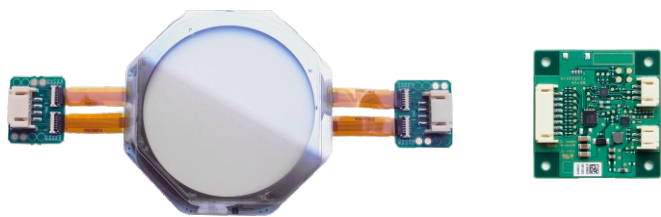


- CC driver based on DC PLC protocol
- Single color-CCT 2-in-1 one model
- Full DC drive, uA level deep dimming
- Output voltage down to 0V, current 100mA and up
- Output current programmable by App
- Fade time, dimming curve adjustable by App

MODEL	SDA10-B/E	SDF20-B/E(S)	SDC25-B/E	SDC25-BH/EH
Working voltage	DC 48V			
Rated output power	10W	20W	25W	25W
Output channel	Single color (with suffix -E) / Single color & CCT variable (with suffix -B)			
Output voltage	0 to 46V			
Rated output current	100-400mA, 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)	15x7x25mm	13.5x6x50mm	17x11.5x70mm	21x8.5x87mm

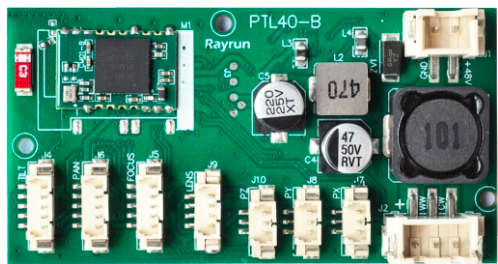
LumiFree

2-way beam control E-lens



MODEL	HDN20CJ-B	HDL35CJ-B	HDC50CJ-B
Working voltage	AC 200-240V		
Rated output power	20W	35W	50W
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	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	110x67x30mm
Net weight	76g	125g	165g

- 3-Axis step motor driving
- LumiFree E-Lens option
- Accurate light beam control
- Durable mechanical design
- Reference design and driver solution



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 ctrl	3-axis. Pan, Tilt, Zoom	
LumiFree lens control	X and Y direction, direct drive	NA
Dimension (WHL)	34x10x64mm	

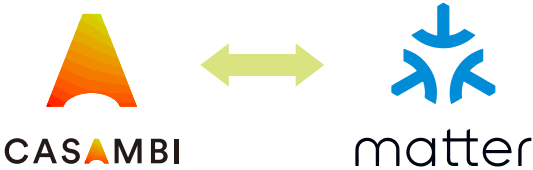
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Smart control
- 
Pure DC dimming
- 
High power factor
- 
Non flicker



- CCT & RGBW smart bulb
- E27 socket, high power factor
- DC dimming, flicker free
- 600lm luminance output

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

- 
Smart control
- 
Matter compatible
- 
Dual system bridge
- 
Smart voice control
- 
Multi function



*Ready in Q4 / 2025

- Map Casambi items to Matter system
- Compatible to Apple, Google, Amazon
- Voice control via smart speakers
- Bridge Casambi to full smart home

MODEL	MTB10
Power supply	DC 5V/1A via type-c jack
Compatible Casambi device	Single color, CCT, RGB, RGBW, RGB+CCT luminare; 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	60x60x20mm