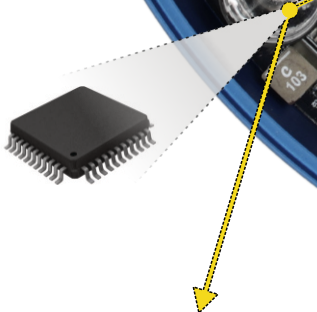


# GEST200

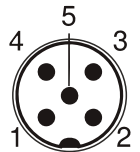
## MEGA-RING *Blue Line*

200 mm Direct light illuminator

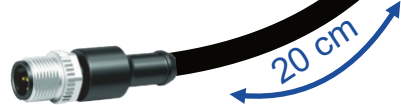
Internal Controller with  
**4 driving modes**



Led Status	Internal controller with 4 driving modes
	1 100% Continuous use
	2 200% Semi-continuous use
	3 400% Strobe use
	4 10-100% Analog Reg



M12 5P Male Connector	
Pin 1	+24V
Pin 2	Start NPN < 1 to 0V
Pin 3	GND
Pin 4	Start PNP > 3 to 24V
Pin 5	1-10V Analog Reg.



Develop your custom solution

**18**  
Standard Colours

Base  
**IP65**  
Protection Degree

Variant  
**IP67**  
Protection Degree

**24**  
Vdc

Optional Polarizing Filter

**CE**  
RoHS

**UK**  
**CA**

**FC**

### Illuminator Features :

- Project achieved by internal resources and Genesi skills;
- Fast controller which allows to have the following modes: PNP, NPN, Analog Regulation, Strobe and Semi-Continuous Use;
- Microcontroller to monitor the pulse duration and the maximum temperature;
- Model with Huge Lenses; 10°, 30°, 60° or 90° transparent, satin and opaline covers;
- Powerful and Fast strobe mode with energy buffering and strobe duration control, Min. pulse from 3 µs;

COLOUR	WHITE		UV-A				VISIBLE				NIR			SWIR				
	White 6000K -6K	White 4000K -4K	UV 365nm -365	UV 385nm -385	UV 395nm -395	UV 405nm -405	Blue 450nm -450	Green 524nm -524	Red 625nm -625	Deep Red 660nm -660	IR 730nm -730	IR 850nm -850	IR 950nm -950	SWIR 1050nm -1050	SWIR 1200nm -1200	SWIR 1300nm -1300	SWIR 1450nm -1450	SWIR 1550nm -1550
Continuous use power	30W		20W				30W				25W	30W	20W					
Semi-continuous use power	60W		35W				60W				50W	60W	30W					
Strobe use power	150W		60W				150W				120W	150W	50W					



**Genesi LUX®**

GENESI ELETTRONICA SRL - VIA BACHELET, 3/A - 41057 SPILAMBERTO (MO) - ITALY  
[info@genesi-lux.it](mailto:info@genesi-lux.it) - TEL. +39 059785566 - [www.genesi-elettronica.com](http://www.genesi-elettronica.com)  
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Organization with a certified ISO 9001:2015 Quality Management System

Rev. 01/26

# GEST200 Part Number

Ex. Code : **GEST200** -YYY -WW1 -WW2

-YYY	Led Colour	EN 62471
-6K	Base 6000K Cold White	White RISK1
-4K	4000K Natural White	
-365	UV 365 nm	UV - A RISK3
-385	UV 385 nm	
-395	UV 395 nm	
-405	UV 405 nm	
-450	450 nm Royal Blue	
-524	524 nm Green	Visible RISK1
-625	625 nm Red	
-660	660 nm Deep Red	
-730	730 nm IR	Nir RISK2
-850	850 nm IR	
-950	950 nm IR	
-1050	1050 nm SWIR	Swir RISK2
-1200	1200 nm SWIR	
-1300	1300 nm SWIR	
-1450	1450 nm SWIR	
-1550	1550 nm SWIR	
-YYY	Colour on demand	

-WW1	Cover variants
-T	Base Trasparent cover (90°)
-OP	Opaline cover
-L10	10° Lens + Transparent Cover
-L30	30° Lens + Transparent Cover
-L60	60° Lens + Transparent Cover
-45T	45° Lens + Transparent Cover <small>only UV-A</small>

-WW1	IP
	Base IP 65
IP 67	IP 67 Additional protection 8 mm Transparent Plexiglass + gaskets + screws
IP 67F	Additional FULL protection IP67 8 mm transparent plexiglass + gaskets + screws

-WW2	Cables
	20 cm cable + M12 5P M
-WW2	Supply connection on demand

Optional wavelenghts and lens available on request

## Part Number Examples:

### GEST200-6K-L10

Mega-ring light 4 Driving Modes 200mm White 6000K 10° Lens transparent cover 4500/22500Lm 1,25/6,25A 30/150W 20cm cable M12 M 5P

### GEST200-524-T


Mega-ring light 4 Driving Modes 200mm Green 524nm transparent cover 1,25/6,25A 30/150W 20cm cable M12 M 5P

### GEST200-1550-L30


Mega-ring light 4 Driving Modes 200mm SWIR 1550nm 30° Lens transparent cover 0,8/2,1A 20/50W 20cm cable M12 M 5P

# OPERATING MODE

## 100% CONTINUOUS USE


Connector	PINS	Function	Description
M12 Male 	1	+24 V	A) START NPN → PIN2: 0 to 1 V; B) START PNP → PIN4: 3 to 24 V;  For the continuous use: it is possible to connect PIN4 directly to +24 V or PIN2 to GND
	2	A) Start NPN: 0-1 V	
	3	GND	
	4	B) Start PNP: 3-24 V	
	5	-	

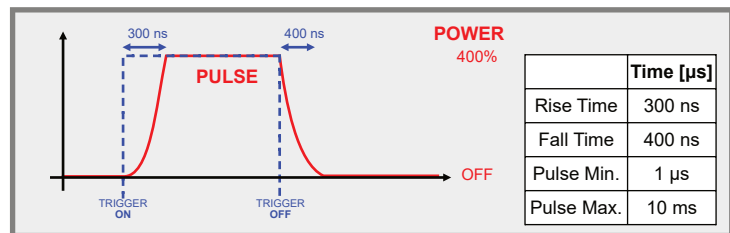
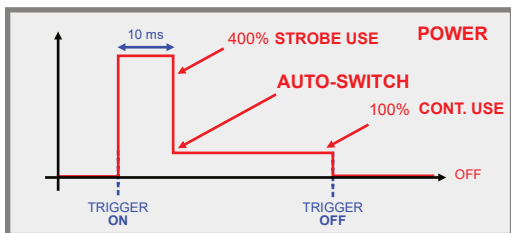
## 200 % SEMI-CONTINUOUS USE

Connector	PINS	Function	Description
M12 Male 	1	+24 V	<b>Precondition:</b> PIN5: 24 V  A) START NPN → PIN2: 0 to 1 V; B) START PNP → PIN4: 3 to 24 V;  <b>In this mode → Ton<sub>max</sub> = 60 s - Dt<sub>max</sub> = 50%</b>  For the semi-continuous use: it is possible to connect PIN4 directly to +24 V or PIN2 to GND.  To use it in continuous mode with DT <sub>max</sub> from 51% to 100%: it is necessary to use the heat sink or forced ventilation.
	2	A) Start NPN: 0-1 V	
	3	GND	
	4	B) Start PNP: 3-24 V	
	5	+24 V	

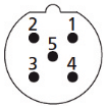
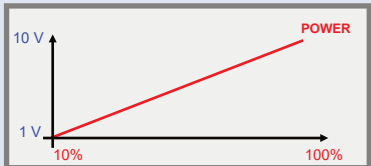
## 400% STROBE USE



Connector	PINS	Function	Description
M12 Male 	1	+24 V	A) START NPN → PIN2: 0 to 1 V; B) START PNP → PIN4: 3 to 24 V;  <b>In this mode → Ton<sub>max</sub> = 10 ms - Dt<sub>max</sub> = 10%</b>  AUTO-SWITCH in continuous use.
	2	A) Start NPN: 0-1 V	
	3	GND	
	4	B) Start PNP: 3-24 V	
	5	-	



## ANALOG REGULATION USE 100%

Connector	PINS	Function	Description
M12 Male 	1	+24 V	PIN5 from 1 to 10 V can adjust the power from 10% to 100%.  
	2	-	
	3	GND	
	4	-	
	5	1 V - 10 V	



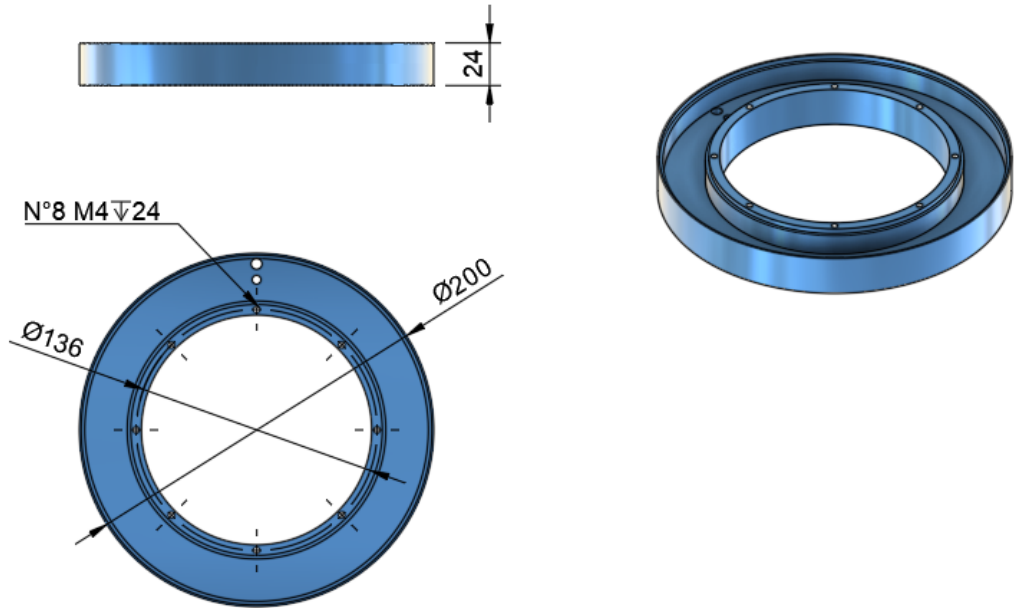
400% STROBE USE POWER can be reached only from WHITE / VISIBLE / NIR LEDS, for other wavelenghts check the power table at page 1.



MicroController temperature protection → at 80°C the PCB enables the protection and restores the functioning at T < 60°C.

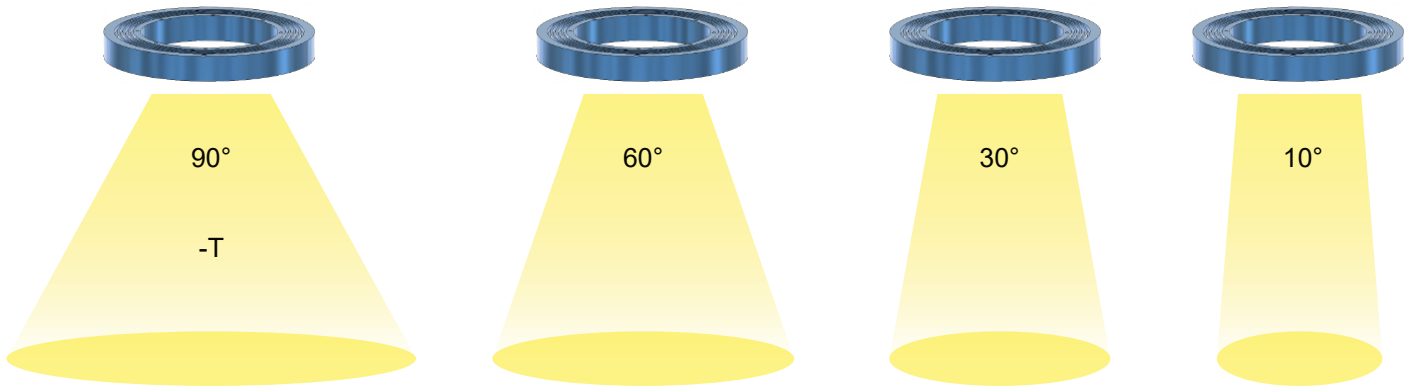
# MECHANICAL DRAWING

Scale	Unit of measurement
1:3	mm
Weight	
750 g	



For 3D mechanical drawing requests - [info@genesi-lux.it](mailto:info@genesi-lux.it)

# LIGHT PROJECTION



-T		
Working distance	Power W/m <sup>2</sup>	Uniform area diameter
8 cm	148 - 296 - 592	15 cm
20 cm	75 - 150 - 300	32 cm
50 cm	17 - 34 - 68	78 cm

-L60		
Working distance	Power W/m <sup>2</sup>	Uniform area diameter
15 cm	160 - 298 - 640	20 cm
50 cm	55 - 102 - 220	26 cm
100 cm	16 - 28 - 64	56 cm

-L30		
Working distance	Power W/m <sup>2</sup>	Uniform area diameter
30 cm	150 - 280 - 600	18 cm
50 cm	100 - 190 - 400	22 cm
100 cm	40 - 72 - 160	28 cm

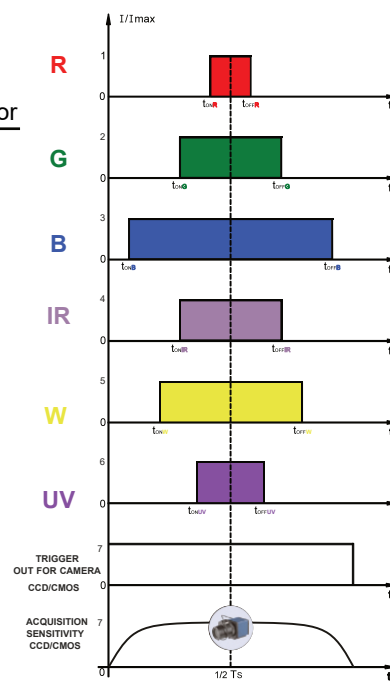
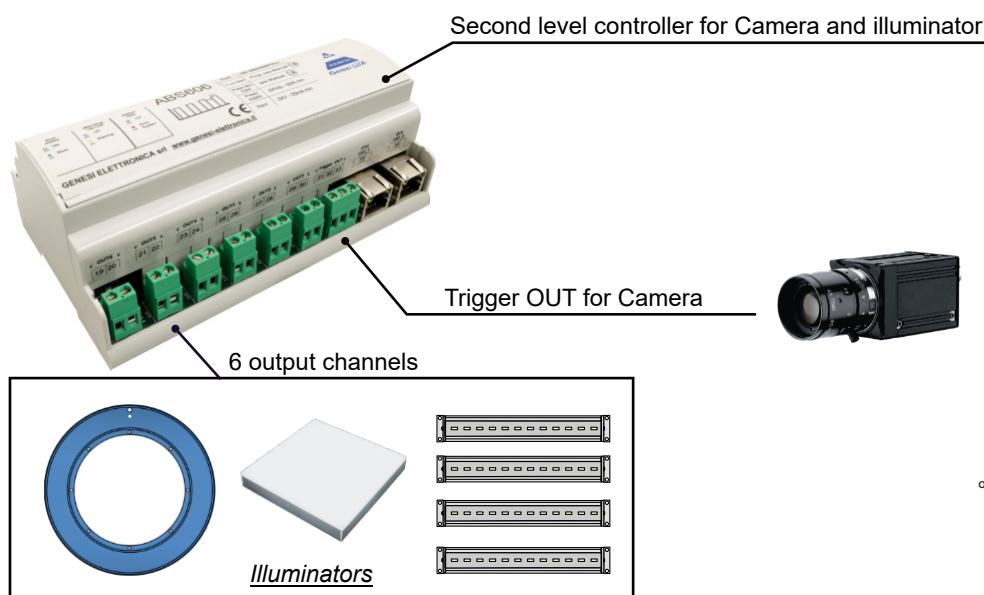
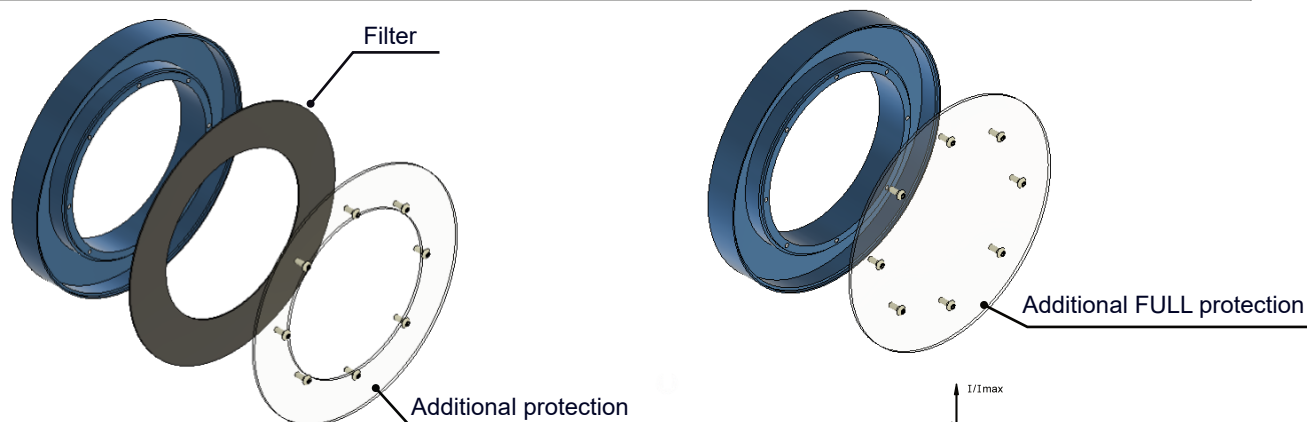
-L10		
Working distance	Power W/m <sup>2</sup>	Uniform area diameter
40 cm	154 - 290 - 616	20 cm
100 cm	63 - 118 - 252	24 cm
200 cm	18 - 34 - 72	32 cm

CONTINUOUS USE    SEMI-CONTINUOUS USE    STROBE USE

Powers related to the white colour with homogeneity ± 10%

# ACCESSORIES

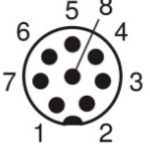
CODE	DESCRIPTION
GEST200-PX2-AP	Additional Protection 2 mm Transparent Plexiglass + screws
GEST200-PX2-UV-AP	Additional Protection 2 mm <b>UV</b> permeable Transparent Plexiglass + screws
GEST200-ST2-AP	Additional Protection 2 mm Satin Plexiglass + screws
GEST200-OP2-AP	Additional Protection 2 mm Opaline Plexiglass + screws
GEST200-PC2-AP	Additional Protection 2 mm Transparent Polycarbonate + screws
GEST200-P-AP	Additional Protection 2 mm Transparent Plexiglass + <b>Polarizing Filter</b> + screws (ONLY STROBE USE)
GEST200-PX2-APF	Additional FULL Protection for Camera and illuminator 2 mm Transparent Plexiglass + screws
GEST200-PX8-AP	Additional protection <b>IP67</b> 8 mm transparent plexiglass + gaskets + screws
GEST200-PX8-APF	Additional FULL protection <b>IP67</b> 8 mm transparent plexiglass + gaskets + screws
GE-M12F-5X050-2M	M12 connector female cable 2 meters long
GE-M12F-5X050-5M	M12 connector female cable 5 meters long
GE-M12F-5X050-10M	M12 connector female cable 10 meters long
GE-ABS606E	LED Voltage Control with 6 programmable channels and 10/100 Ethernet. Second level controller for Camera and illuminator.

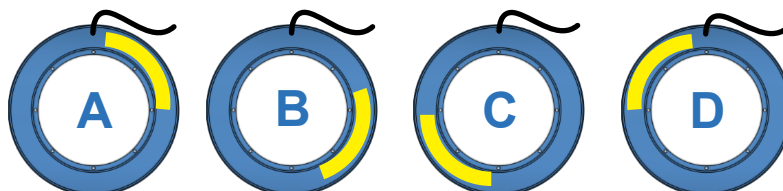


# SPECIAL VERSION

## PHOTOMETRIC STEREO

CODE: GEST200-YYY-WW1-PHS

Connector	PINS	Function	Description
	1	OUT error (+24 V)	Illuminator with 4 sectors that can be driven independently. 100% continuous use, 200% semi continuous use, or 400% strobe for every sector.
	2	+24 V	
	3	A) Start PNP: 15-24 V	
	4	B) Start PNP: 15-24 V	
	5	C) Start PNP: 15-24 V	
	6	D) Start PNP: 15-24 V	
	7	GND	
	8	Set +24 V to semi continuous mode (200%)	

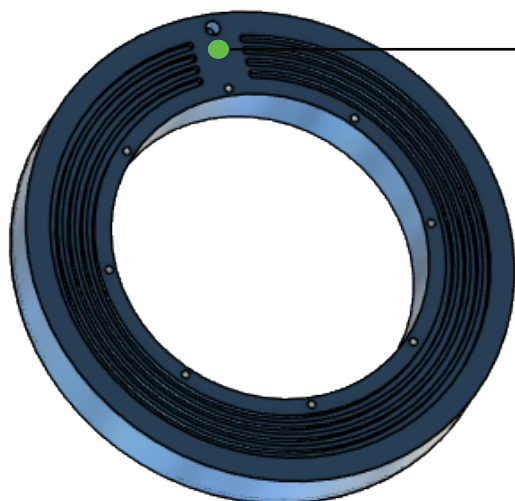


## Tailor-Made

Connector	PINS	Function	Description
M12 Male	1		
	2		
	3		
	4		
	5		

**DEVELOP YOUR CUSTOM PRODUCT WITH OUR R&D TEAM**

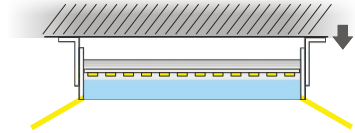
## LED STATUS



Mode	Led colour signal	Function/note
Powered	Blue	-
100% Continuous use	Green	-
0-100% Analog Reg	Yellow	-
400% Strobe Use	Fast blinking green	-
200% Semi-continuous use standby	Purple	Without PNP or NPN input only +24V analog IN
200% Semi-continuous use	Slow blinking purple	With PNP o NPN input +24V analog IN
Over 10% ton error	Fast blinking red	10 sec stop
Over 80° temperature in pcb controller	Slow blinking green-yellow-red	Up to < 60° stop

The indicated IP protection degree is guaranteed only if the product is positioned downward

Base  
**IP65**  
Protection Degree



### NEW SOLUTION

DESIGN A NEW ONE

[info@genesi-lux.it](mailto:info@genesi-lux.it)



### SAMPLE

TEST THE PRODUCT

[info@genesi-lux.it](mailto:info@genesi-lux.it)



### DOWNLOAD

TECHNICAL SPECIFICATIONS

[www.genesi-elettronica.com](http://www.genesi-elettronica.com)



### REQUEST

THE PRICE LIST

[info@genesi-lux.it](mailto:info@genesi-lux.it)

STANDARDS		
EMC immunity :	EN 61547:2009	
EMC emission :	EN 55015:2019	
Photobiologic risk :	EN 62471:2008 GLS:	
Assessment of lighting equipment related to human exposure to electromagnetic fields	EN 62493:2015	

### WARNING

-Electrical device exclusively for professional use. Installation can be done by qualified personnel only.

-In case of power supply wire damage, its replacement has to be done at the head office exclusively.

Warranty loss in case of inappropriate use and tampering.



Design & Production  
Made in Italy



**Genesi LUX®**

GENESI ELETTRONICA SRL - VIA BACHELET, 3/A - 41057 SPILAMBERTO (MO) - ITALY

[info@genesi-lux.it](mailto:info@genesi-lux.it) - TEL. +39 059785566 - [www.genesi-elettronica.com](http://www.genesi-elettronica.com)

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Rev. 01/26