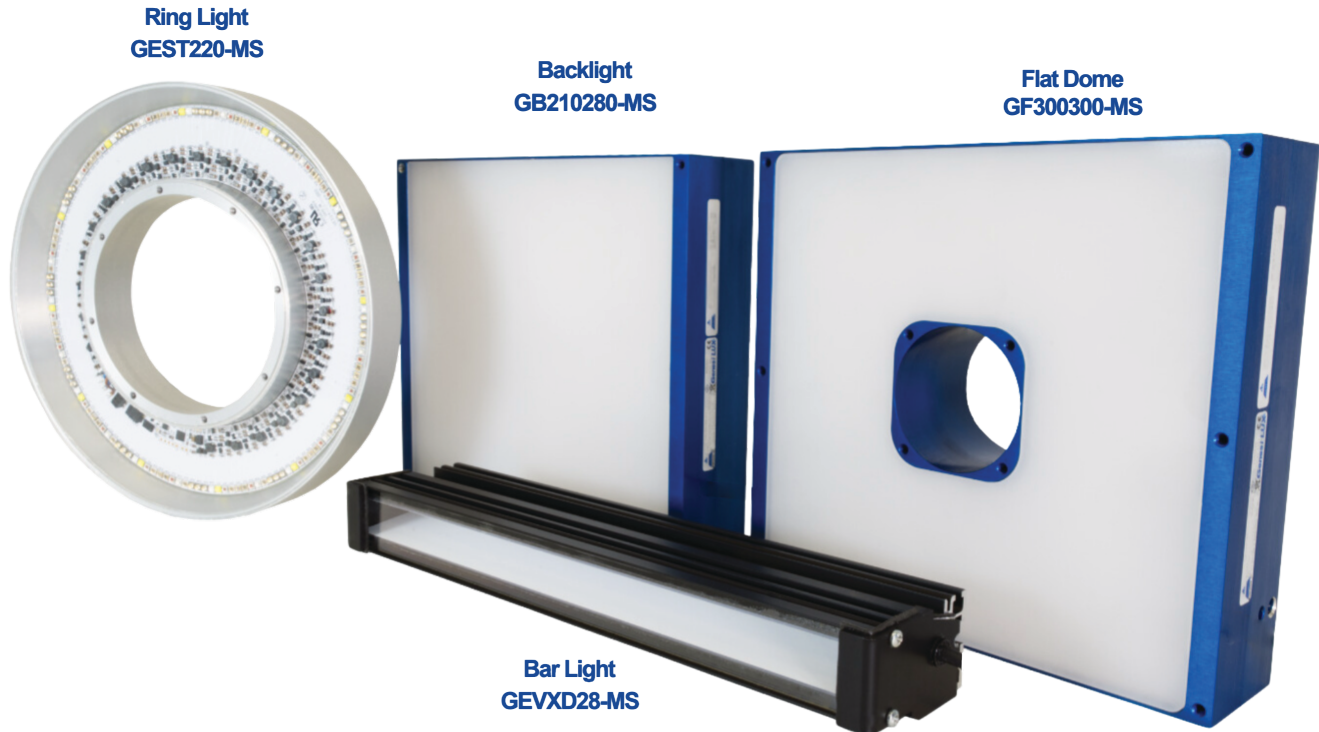
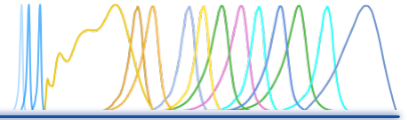


# MULTISPECTRAL LIGHTING



Develop  
your custom  
solution

Base  
**IP54**  
Protection Degree  
GEVXD

Base  
**IP65**  
Protection Degree  
GEST-GB-GF

**CE**  
RoHS

**24**  
Vdc

**UK**  
**CA**

Optional  
**EtherNET**  
External controller

Optional  
**EtherCAT**  
External controller

Optional  
**IO-Link**  
External controller

## Illuminator Features :

- project achieved by internal resources and Genesi skills;
- types of leds and powers in table from 1 to 6 or custom → 12 separate channels;
- power supply cable: 20 cm, RS 485, M12 male connector, 5 poles;
- external converter from RS485 to USB + GENESI custom software for PC (Windows);

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)

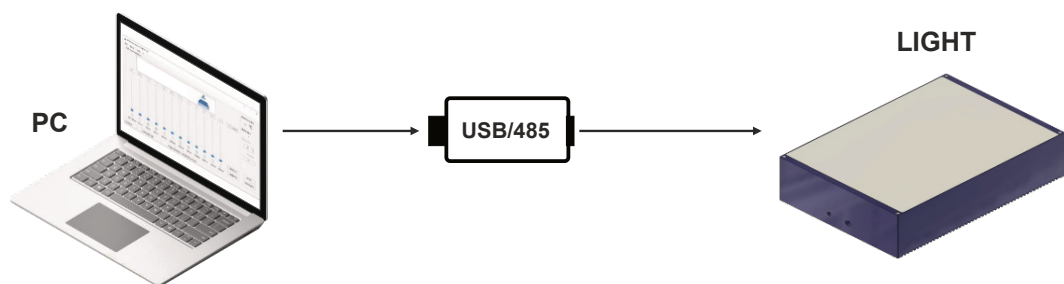
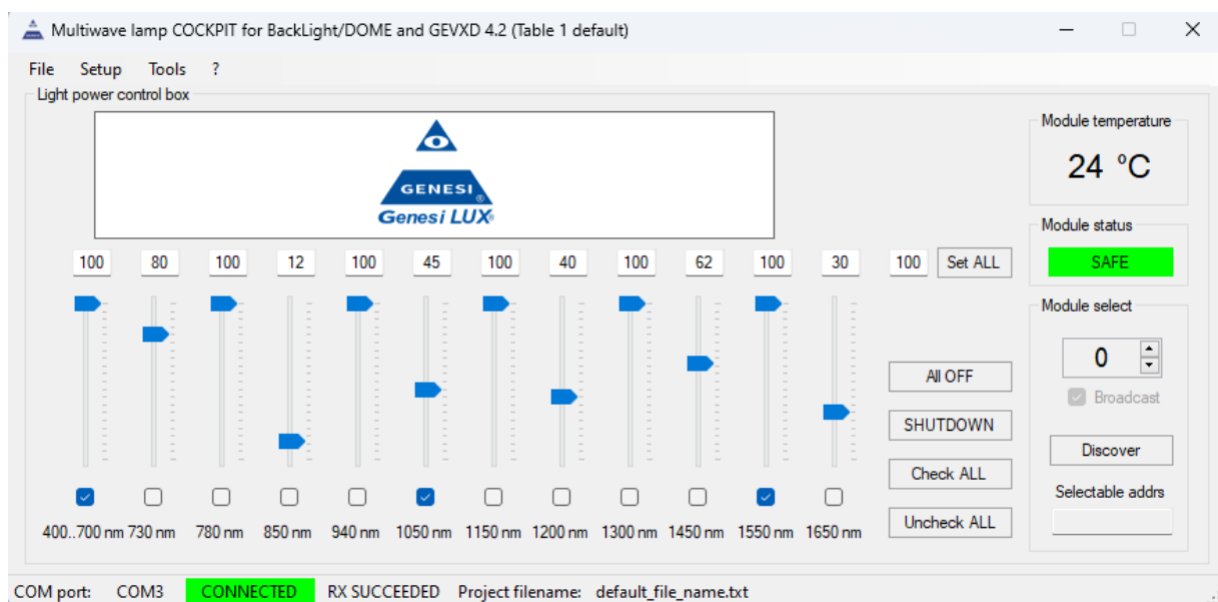
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Organization with a  
certified ISO 9001:2015  
Quality Management System

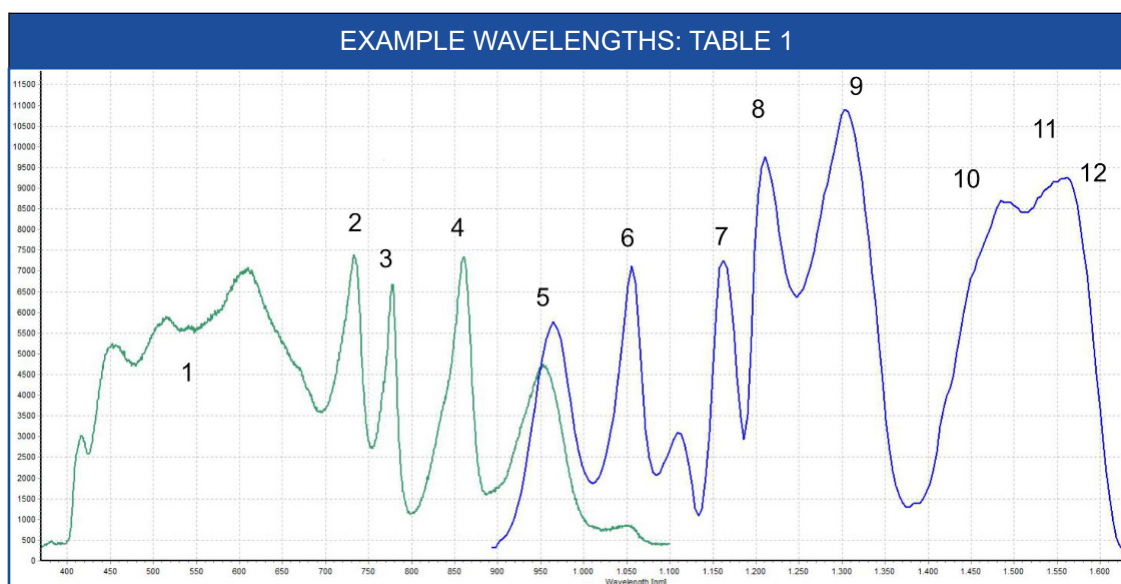
Rev. 03/25

**Custom software for PC included.**



**Application:**

- Useful in all the prototype machineries where it is necessary to understand which is the most suitable lighting for a particular object, with a single illuminator;
- Useful in all the production machineries that analyze different products on a single line, since that with a single illuminator it is possible to have up to 12 different wavelengths;
- Useful in analysis laboratories where it is necessary to highlight material samples using particular wavelengths;



# Multispectral Part Number

Ex. Code : **MODELXXX-MS-YYY-ZZZ**

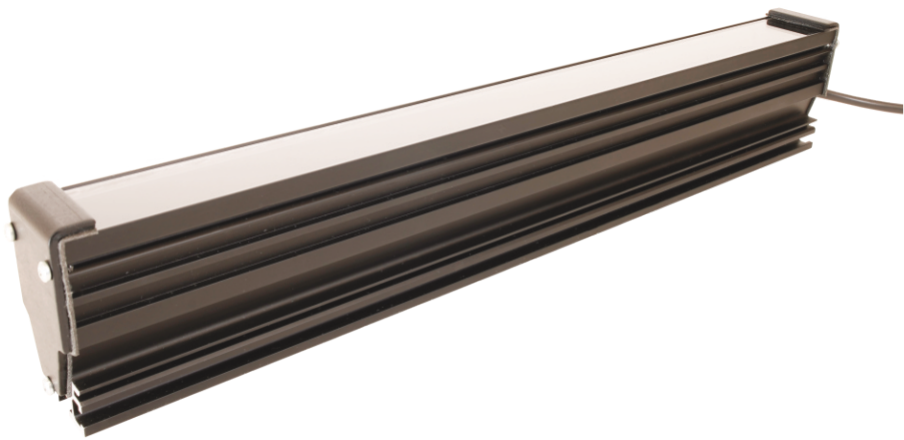
| XXX        | Base Length          |         |
|------------|----------------------|---------|
| Bar Light  |                      |         |
| GEVXD28    | 28 cm                |         |
| XXX        | Base Diameter        |         |
| Ring Light |                      |         |
| GEST220    | 22 cm                |         |
| XXX        | Lengths              | Heights |
| Backlight  |                      |         |
| GB210280   | 21 cm                | 28 cm   |
| Flat Dome  |                      |         |
| GF300300   | 30 cm                | 30 cm   |
| GXXX       | Dimensions on demand |         |

| -YYY-ZZZ  | TABLES          | EN 62471 |
|-----------|-----------------|----------|
| -400-1650 | Base TABLE 1    | RISK 2   |
| -365-980  | Base TABLE 2    | RISK 3   |
| -RGB-1550 | Base TABLE 3    | RISK 2   |
| -400-1900 | Base TABLE 4    | RISK 2   |
| -265-450  | Base TABLE 5    | RISK 3   |
| -255-450  | Base TABLE 6    | RISK 3   |
| -YYY-ZZZ  | Table on demand |          |

## TABLES

| BASE TABLES                         |                     |                     |                     |                     |                     |                     | CUSTOM TABLE          |
|-------------------------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|-----------------------|
| LED position N°18 for each position | TABLE 1 WAVELENGTHS | TABLE 2 WAVELENGTHS | TABLE 3 WAVELENGTHS | TABLE 4 WAVELENGTHS | TABLE 5 WAVELENGTHS | TABLE 6 WAVELENGTHS | TABLE XXX WAVELENGTHS |
| 1                                   | 400-700 nm          | 365 nm              | 450 nm              | 400-700 nm          | 265 nm              | 255 nm              | nm                    |
| 2                                   | 730 nm              | 385 nm              | 520 nm              | 730 nm              | 275 nm              | 265 nm              | nm                    |
| 3                                   | 780 nm              | 395 nm              | 625 nm              | 780 nm              | 285 nm              | 275 nm              | nm                    |
| 4                                   | 850 nm              | 400-700 nm          | 400-700 nm          | 850 nm              | 297 nm              | 285 nm              | nm                    |
| 5                                   | 940 nm              | 450 nm              | 730 nm              | 940 nm              | 308 nm              | 297 nm              | nm                    |
| 6                                   | 1050 nm             | 520 nm              | 850 nm              | 1050 nm             | 345 nm              | 308 nm              | nm                    |
| 7                                   | 1150 nm             | 625 nm              | 940 nm              | 1200 nm             | 365 nm              | 345 nm              | nm                    |
| 8                                   | 1200 nm             | 730 nm              | 1050 nm             | 1300 nm             | 385 nm              | 365 nm              | nm                    |
| 9                                   | 1300 nm             | 780 nm              | 1200 nm             | 1450 nm             | 395 nm              | 385 nm              | nm                    |
| 10                                  | 1450 nm             | 850 nm              | 1300 nm             | 1550 nm             | 405 nm              | 395 nm              | nm                    |
| 11                                  | 1550 nm             | 940 nm              | 1450 nm             | 1650 nm             | 450 nm              | 405 nm              | nm                    |
| 12                                  | 1650 nm             | 980 nm              | 1550 nm             | 1900 nm             | 400 - 700 nm        | 450 nm              | nm                    |

# GEVXD MULTISPECTRAL

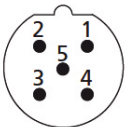


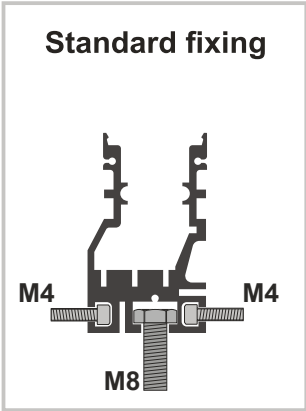
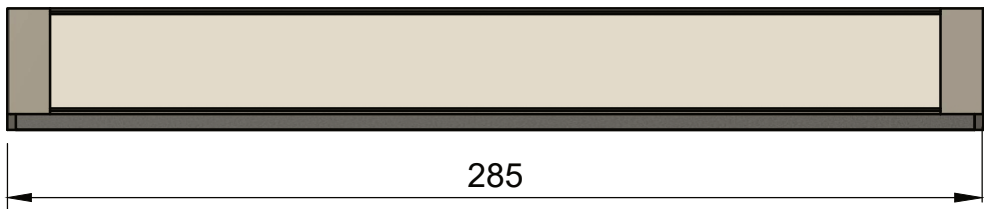
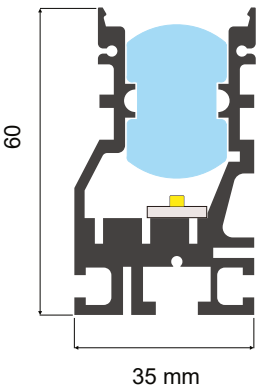
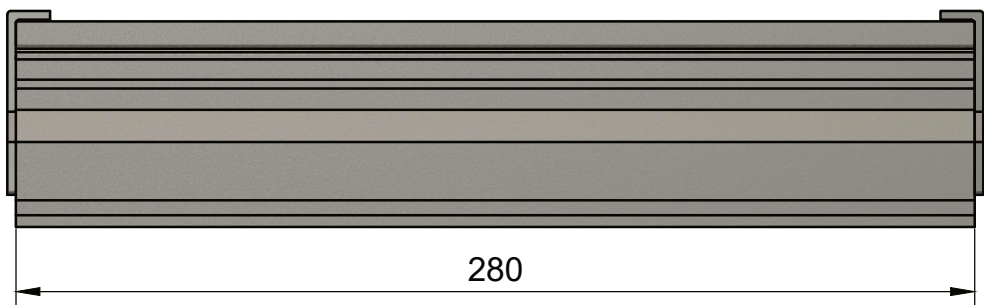
## MODELS

|             | Code                 | Description                                                                                                    |
|-------------|----------------------|----------------------------------------------------------------------------------------------------------------|
| Base model  | GEVXD28-MS-400-1650  | 12 wavelength multispectral lighting 28 cm 5°Lens 400-1650 nm 50W 20cm cable M12 5 poles Table 1               |
| Base model  | GEVXD28-MS-365-980   | 12 wavelength multispectral lighting 28 cm 5°Lens 365-980 nm 50W 20cm cable M12 5 poles Table 2                |
| Base model  | GEVXD28-MS-RGB-1550  | 12 wavelength multispectral lighting 28 cm 5°Lens RGB-1550 nm 50W 20cm cable M12 5 poles Table 3               |
| Base model  | GEVXD28-MS-400-1900  | 12 wavelength multispectral lighting 28 cm 5°Lens 400-1900 nm 50W 20cm cable M12 5 poles Table 4               |
| Base model  | GEVXD28-MSB-400-1650 | 12 wavelength multispectral lighting 28 cm with 40° deflector 400-1650 nm 50W 20cm cable M12 5 poles Table 1   |
| Base model  | GEVXD28-MSB-365-980  | 12 wavelength multispectral lighting 28 cm with 40° deflector 365-980 nm 50W 20cm cable M12 5 poles Table 2    |
| Base model  | GEVXD28-MSB-400-1900 | 12 wavelength multispectral lighting 28 cm with 40° deflector 400-1900 nm 50W 20cm cable M12 5 poles Table 4   |
| Base model  | GEVXD28-MSB-265-450  | 12 wavelength multispectral lighting 28 cm with 40° deflector UV 265-450 nm 50W 20cm cable M12 5 poles Table 5 |
| Base model  | GEVXD28-MSB-255-450  | 12 wavelength multispectral lighting 28 cm with 40° deflector UV 255-450 nm 50W 20cm cable M12 5 poles Table 6 |
| Tailor Made | GEVXDXXX-MS-YYY-ZZZ  | Choose the dimension and the wavelength of the light                                                           |

| Description                                                                              |
|------------------------------------------------------------------------------------------|
| GEVXD28-MS is a Modular Model Fitting up to 8 boards on the same bar light ( Max 214 cm) |

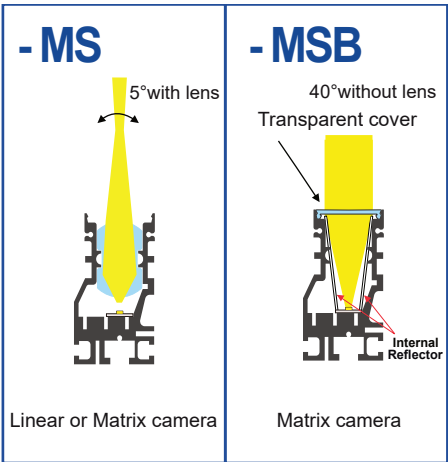
## PIN OUT

| Connector                                                                           | PINS | Function   |
|-------------------------------------------------------------------------------------|------|------------|
| M12 Male                                                                            | 1    | +24V (2 A) |
|  | 2    | - RS485    |
|                                                                                     | 3    | GND        |
|                                                                                     | 4    | + RS485    |
|                                                                                     | 5    | NC         |



| Description                                                                              |
|------------------------------------------------------------------------------------------|
| GEVXD28-MS is a Modular Model Fitting up to 8 boards on the same bar light ( Max 214 cm) |

MODEL AND STANDARD ACCESSORIES



| CODE                          | DESCRIPTION                              |
|-------------------------------|------------------------------------------|
| GEVXXXX-T                     | Transparent PMMA Cover                   |
| GEVXXXX-OP                    | Opaline Polycarbonate Cover              |
| GEVXXXX-ST                    | Satin Polycarbonate Cover                |
| GE-M12F-5X050-2M              | M12 Connector female cable 2 meters long |
| External converter<br>USB/485 |                                          |
| Software PC                   |                                          |

# GEST 220 MULTISPECTRAL



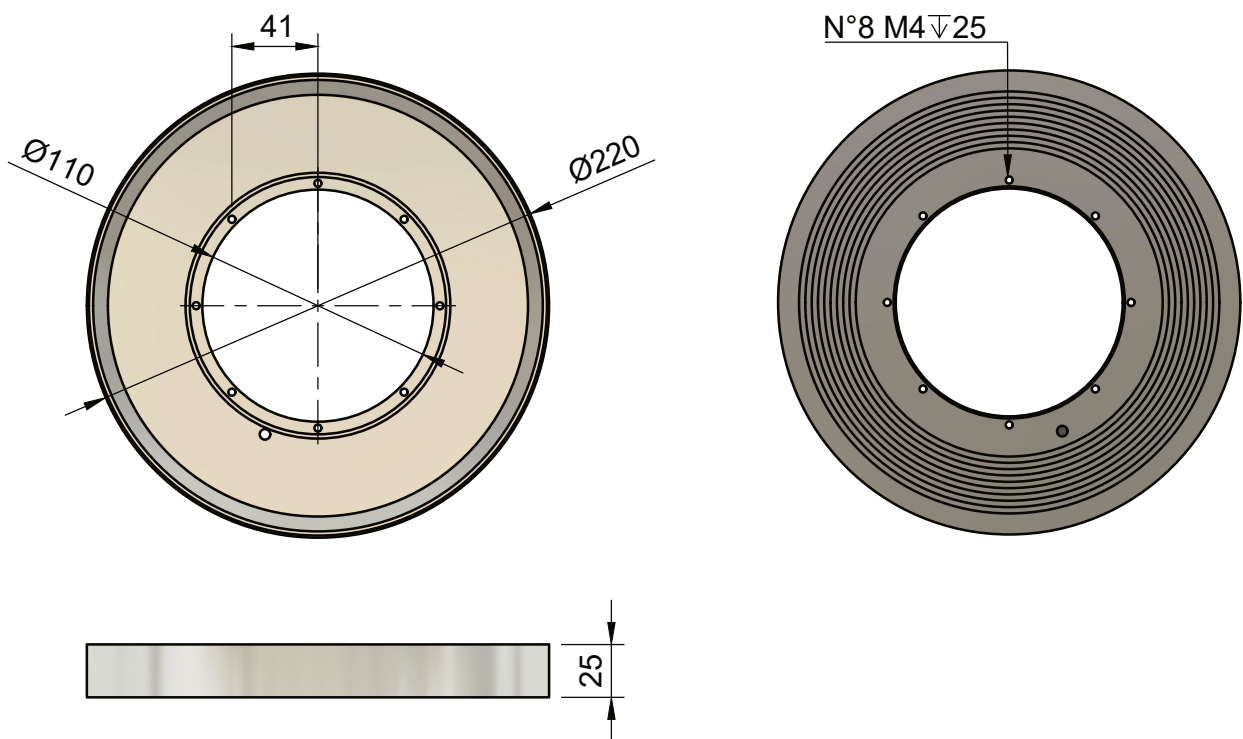
## MODELS

|             | Code                | Description                                                                                             |
|-------------|---------------------|---------------------------------------------------------------------------------------------------------|
| Base model  | GEST220-MS-400-1650 | 12 wavelength multispectral ring light 220cm diameter 400-1650 nm 100W 20cm cable M12 5 poles Table 1   |
| Base model  | GEST220-MS-365-980  | 12 wavelength multispectral ring light 220cm diameter 365-980 nm 100W 20cm cable M12 5 poles Table 2    |
| Base model  | GEST220-MS-RGB-1550 | 12 wavelength multispectral ring light 220cm diameter RGB-1550 nm 100W 20cm cable M12 5 poles Table 3   |
| Base model  | GEST220-MS-400-1900 | 12 wavelength multispectral ring light 220cm diameter 400-1900 nm 100W 20cm cable M12 5 poles Table 4   |
| Base model  | GEST220-MS-265-450  | 12 wavelength multispectral ring light 220cm diameter UV 265-450 nm 100W 20cm cable M12 5 poles Table 5 |
| Base model  | GEST220-MS-255-450  | 12 wavelength multispectral ring light 220cm diameter UV 255-450 nm 100W 20cm cable M12 5 poles Table 6 |
| Tailor Made | GESTXXX-MS-YYY-ZZZ  | Choose the dimension and the wavelength of the light                                                    |

## PIN OUT

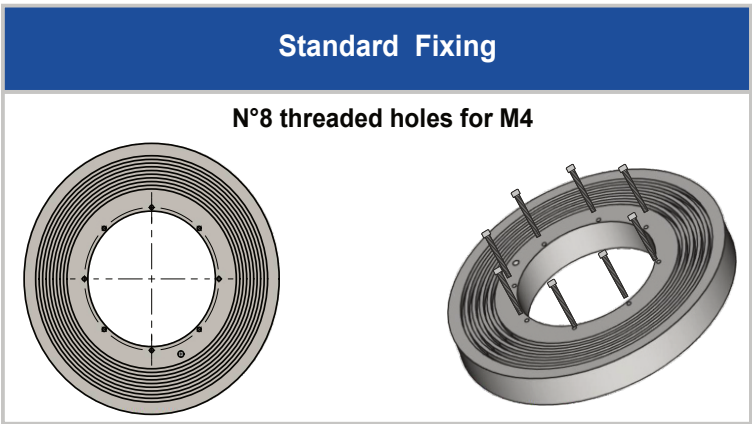
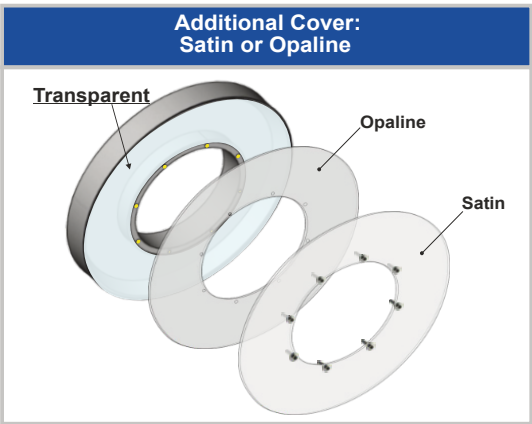
| Connector | PINS | Function   |
|-----------|------|------------|
| M12 Male  | 1    | +24V (4 A) |
|           | 2    | - RS485    |
|           | 3    | GND        |
|           | 4    | + RS485    |
|           | 5    | NC         |

MECHANICAL DRAWING & FIXING



STANDARD ACCESSORIES INCLUDED

| CODE                          | DESCRIPTION                                               |
|-------------------------------|-----------------------------------------------------------|
| GEST220-ST2-AP                | 2 mm satin plexiglass additional protection + screws      |
| GEST220-OP2-AP                | 2 mm opaline Polycarbonate additional protection + screws |
| GE-M12F-5X050-2M              | M12 female Connector: 2 mt                                |
| External converter<br>USB/485 |                                                           |
| Software PC                   |                                                           |



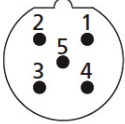
# GB MULTISPECTRAL



## MODELS

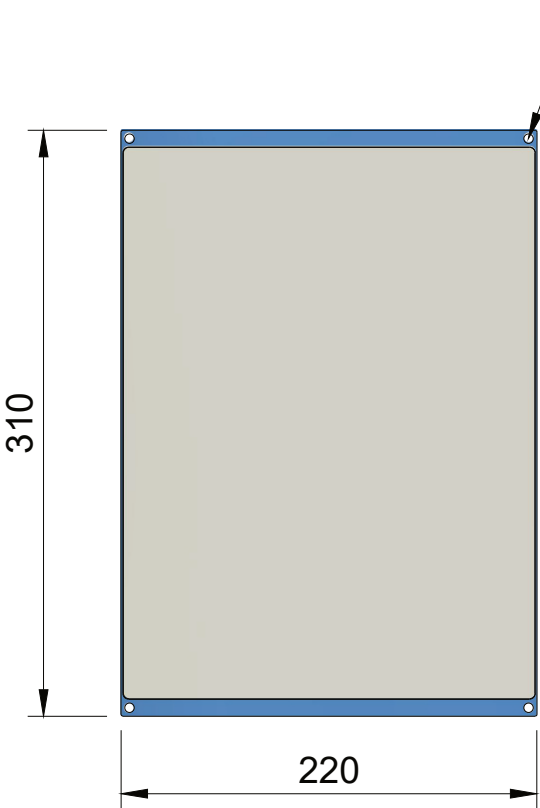
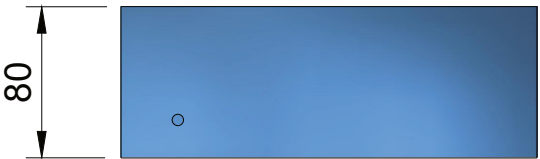
|             | Code                 | Description                                                                                   |
|-------------|----------------------|-----------------------------------------------------------------------------------------------|
| Base model  | GB210280-MS-400-1650 | 12 wavelength multispectral backlight 21x28cm 400-1650 nm 150W 20cm cable M12 5 poles Table 1 |
| Base model  | GB210280-MS-365-980  | 12 wavelength multispectral backlight 21x28cm 400-1650 nm 150W 20cm cable M12 5 poles Table 2 |
| Base model  | GB210280-MS-RGB-1550 | 12 wavelength multispectral backlight 21x28cm 400-1650 nm 150W 20cm cable M12 5 poles Table 3 |
| Base model  | GB210280-MS-400-1900 | 12 wavelength multispectral backlight 21x28cm 400-1650 nm 150W 20cm cable M12 5 poles Table 4 |
| Tailor Made | GBAAABBB-MS-YYY-ZZZ  | Choose the dimension and the wavelength of the light                                          |

PIN OUT

| Connector                                                                         | PINS | Function |
|-----------------------------------------------------------------------------------|------|----------|
|  | 1    | NC       |
|                                                                                   | 2    | - RS485  |
|                                                                                   | 3    | GND      |
|                                                                                   | 4    | + RS485  |
|                                                                                   | 5    | NC       |

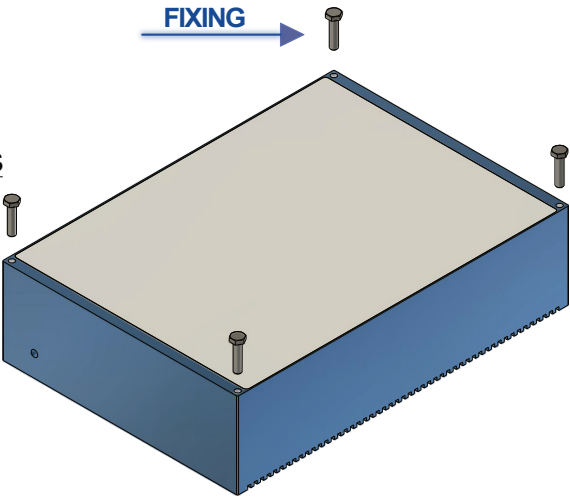
| Supply Cable                                                                      | Function    | Description                |
|-----------------------------------------------------------------------------------|-------------|----------------------------|
|  | +24 V (8 A) | 2 Metres cable 2 x 2,5 mm² |
|                                                                                   | GND         |                            |

MECHANICAL DRAWING & FIXING

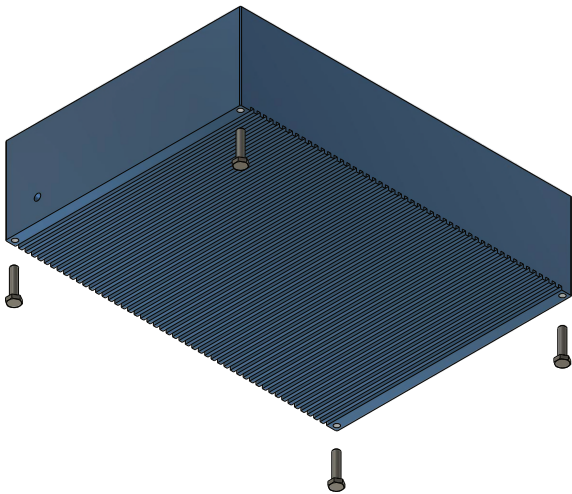


N°4 M6 $\nabla$  25  
Threaded Holes

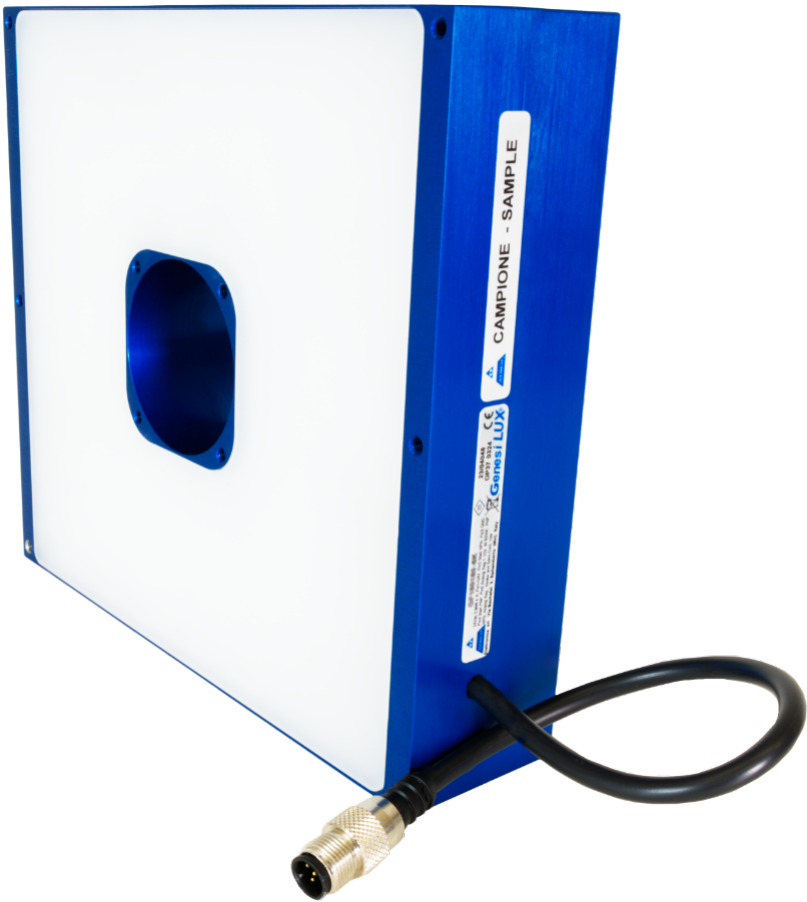
FIXING



FIXING



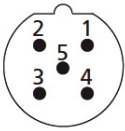
# GF MULTISPECTRAL



## MODELS

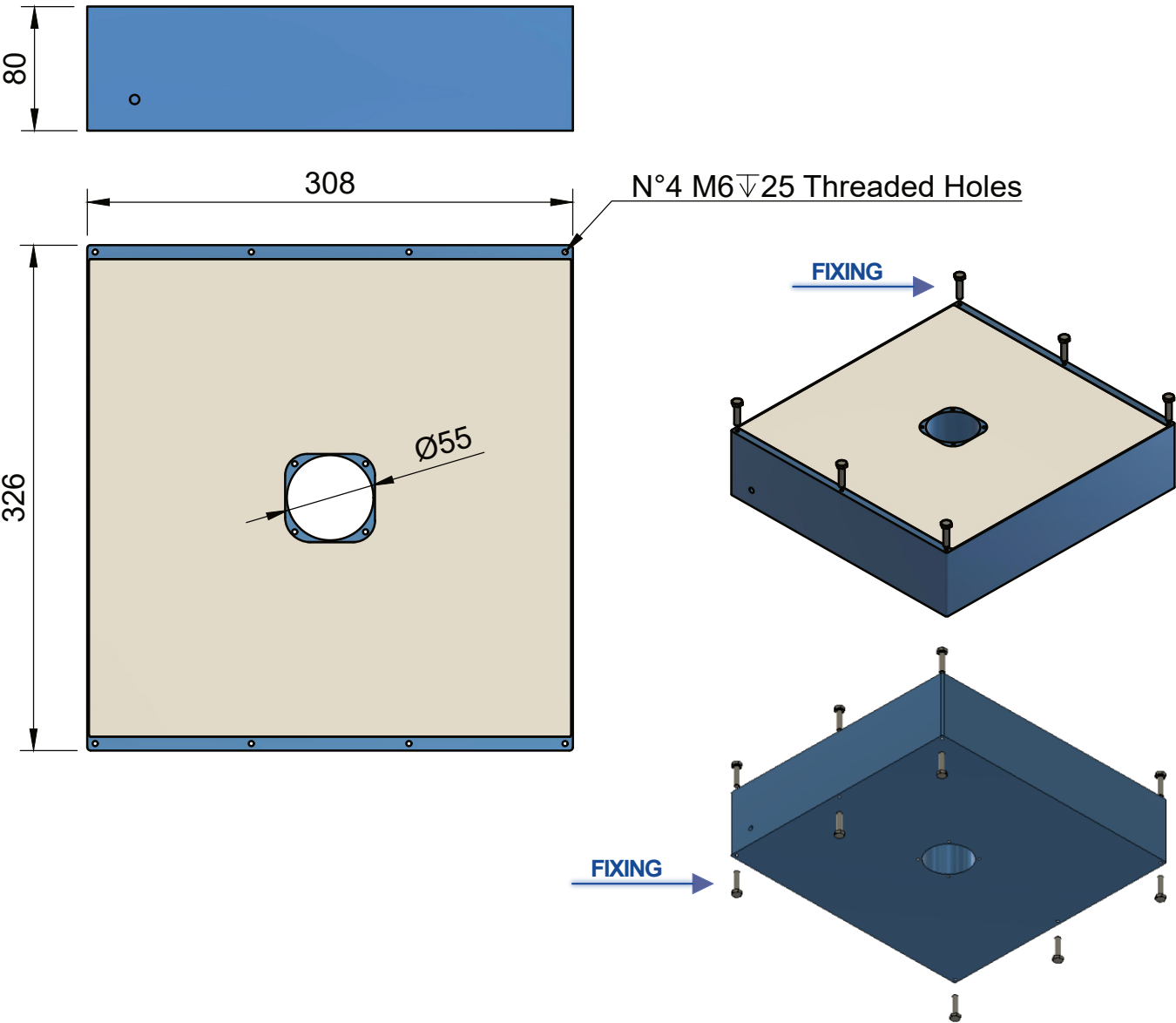
|             | Code                 | Description                                                                           |
|-------------|----------------------|---------------------------------------------------------------------------------------|
| Base model  | GF300300-MS-400-1650 | 12 wavelength flat dome light 30x30cm 400-1650 nm 200W 20cm cable M12 5 poles Table 1 |
| Base model  | GF300300-MS-365-980  | 12 wavelength flat dome light 30x30cm 400-1650 nm 200W 20cm cable M12 5 poles Table 2 |
| Base model  | GF300300-MS-RGB-1550 | 12 wavelength flat dome light 30x30cm 400-1650 nm 200W 20cm cable M12 5 poles Table 3 |
| Base model  | GF300300-MS-400-1900 | 12 wavelength flat dome light 30x30cm 400-1650 nm 200W 20cm cable M12 5 poles Table 4 |
| Tailor Made | GFAAABBB-MS-XYZ      | Choose the dimension and the wavelength of the light                                  |

PIN OUT

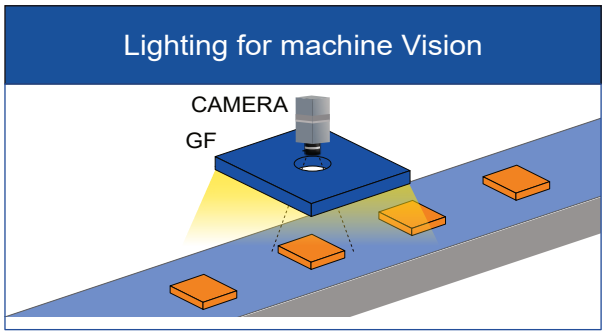
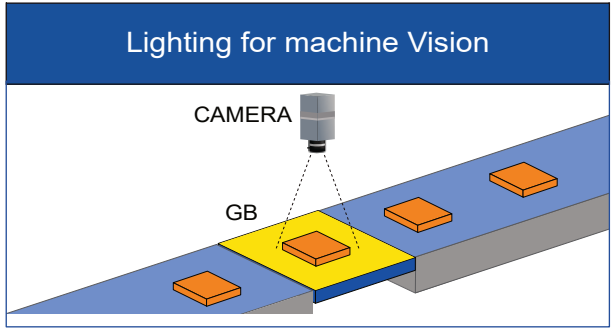
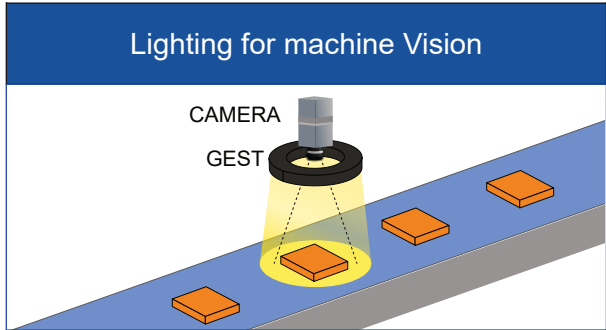
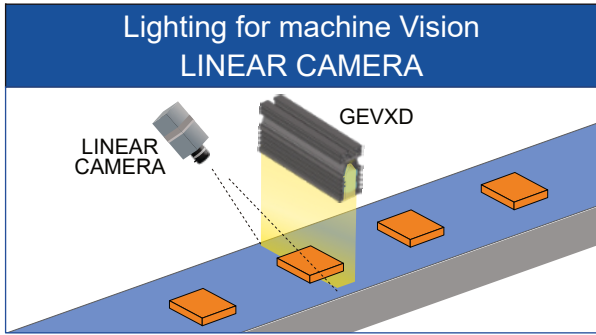
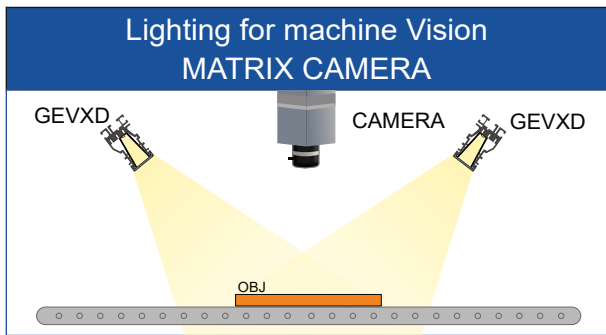
| Connector                                                                         | PINS | Function |
|-----------------------------------------------------------------------------------|------|----------|
|  | 1    | NC       |
|                                                                                   | 2    | - RS485  |
|                                                                                   | 3    | GND      |
|                                                                                   | 4    | + RS485  |
|                                                                                   | 5    | NC       |

| Supply Cable                                                                      | Function     | Description |
|-----------------------------------------------------------------------------------|--------------|-------------|
|  | +24 V (10 A) |             |
|                                                                                   | GND          |             |

MECHANICAL DRAWING & FIXING



# TYPICAL APPLICATIONS



## 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

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