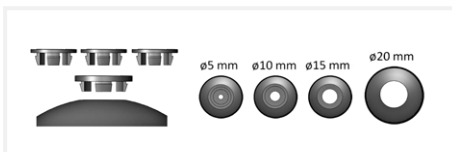




## SMALL SDOME II 80 USER GUIDE

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### ■ SETTINGS



By default, the hole located on the top of the SDOME II 80 has a diameter of 30 mm. The SDOME II 80 is delivered along with 4 accessories to be clipped on the top. If the camera's field of vision allows it, these clips help to reduce the diameter and then, to decrease the drop shadow over the workpiece.

### ■ USER SECURITY

**Do respect the power supply voltages and the connection terminals.**  
**Do not modify or dismantle all or part of the product.**  
**Do not connect or clean when power is on.**  
**Do not watch the lighting source directly, and follow the advice below :**



- If the workstation enables it, interpose a filter that will stop the lighting radiation under fixed or adjustable frame between the source and the operator.
- When these measures cannot be implemented, supply the operators with glasses (class 4) available for sale at TPL Vision.
- Forbid or limit the direct access to the lighting source (exposure into the radiation axis).
- Establish a security perimeter so as to prevent the operators from approaching the lighting source beyond the recommendations of the manufacturer, as for eye irritation is concerned.
- In any case, ensure that the chosen means properly reduce the exposition quantities (features of screens or glasses to be chosen, according to the wavelengths that the operators are exposed to).

### ■ EQUIPMENT MAINTENANCE

#### CLEANING (when the product is switched off)

Please use a soft and dry cloth. Do not use any abrasive material.  
Do not use any cleaning solvent or aggressive chemical product.  
TPL Vision recommends to use isopropyl alcohol.

### ■ OPERATING CONDITIONS

Not for outdoor use.



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Ref:UG-050501-F4, 2025/05 edition.

Features and presentations liable to changes without notice.



## SMALL SDOME II 80 USER GUIDE

### PREAMBLE

This Technical User Guide contains warnings and guidance for correct and safe operation of the product. These instructions must be followed at all times. TPL Vision will not be held responsible for problems caused by using the product contrary to these instructions and the Warranty will be deemed invalid.



### ■ UNPACKING

Products are packed in our factory, using suitable materials for a safe transport through the usual means of transportation, in France and internationally. However, a damaged package must be reported to the carrier on delivery. Handwritten reservations must be indicated on the delivery order. Moreover, please send a letter or an email to TPL Vision as soon as possible (up to 24 hours after the delivery). If the transportation damage has not been stipulated on the delivery order and reported to TPL Vision in time, the package will not be taken back nor exchanged. To open the package, do not use any cutting blade to avoid damaging the product(s). Please use the delivered accessories, if needed (do not use any other products or equivalents to replace the delivered accessories).

### ■ RISK CLASS

The EN-62471 norm about lighting fluxes enables the classification of led lightings in 4 distinct groups, according to their hazardousness degree. Please find below an indicative table, recapitulating the classes of risk for our standard products.

Colour	Class	Risk
White WHI, Blue 470 nm, Green 525 nm, Red 630 nm, IR 880 nm	0	none

In all cases, TPL Vision recommends the use of **the protection glasses** that are listed in its catalog.

For more information about photo-biological risks, do not hesitate to contact us.



# SMALL SDOME II 80 USER GUIDE

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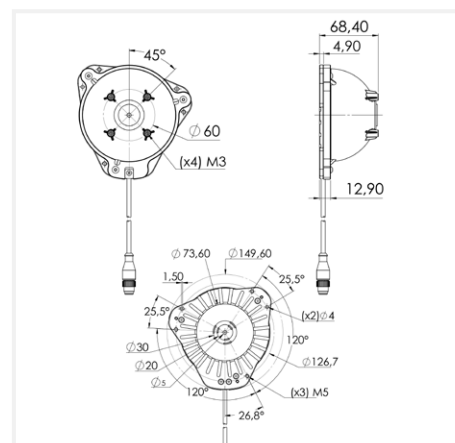


## DIMENSIONS

	Internal ø (mm)	External ø (mm)	Height (mm)
	A	B	C
SDOME II 80	73,60	149,60	68,40



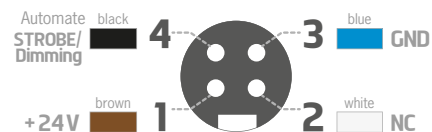
## FIXING



During the set up, the light has to be switched off and unplugged. Please use the fixing holes designed for that purpose (see scheme above). We recommend the using of M5 screws (not supplied) with a tightening torque from 0.5 to 1.5 Nm. We also recommend the use of a thread-locker (not supplied) to avoid any risk of loosening.

## CONNECTION

**M12** 4 male points



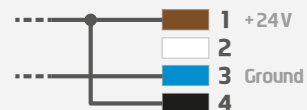
In STROBE mode:  
STROBE entry = 24 V  
or 5V TTL -> light on

FRONT VIEW OF THE PRODUCT'S CONNECTOR

### STROBE MODE CONNECTION

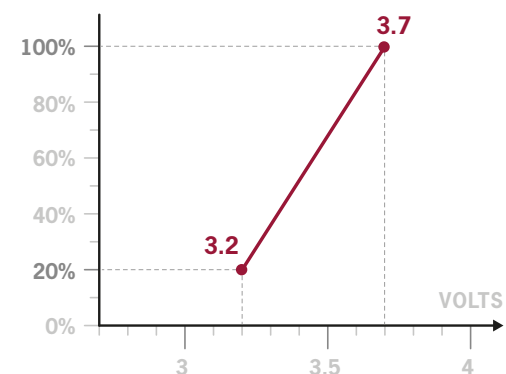


### CONTINUOUS MODE CONNECTION



## CONTROL

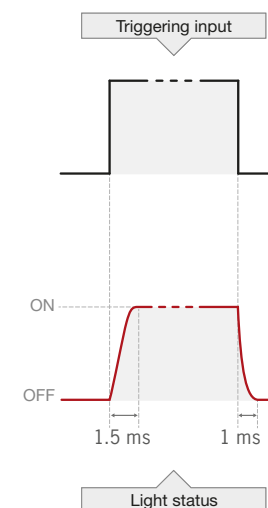
### DIMMING



Potential dimming between  
3.2 and 3.7 Volts.

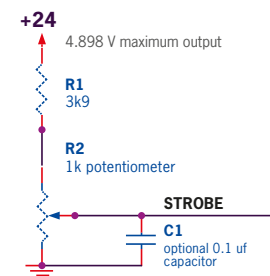
Above 3.7 Volts, the product reaches 100%  
of its lighting power.

### STROBE MODE

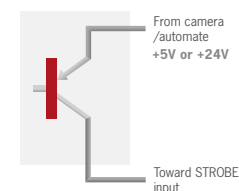


Power supply : 24V +/-10%  
Strobe input : 24V or 5V TTL

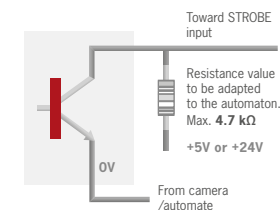
### EXTERNAL DIMMING CONFIGURATION



### PNP-LIKE AUTOMATON OUTPUT



### NPN-LIKE AUTOMATON OUTPUT

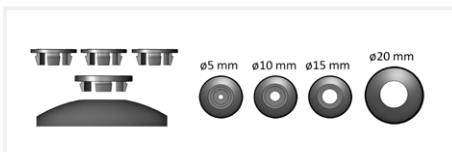




## SMALL SDOME II 130 USER GUIDE

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### ■ SETTINGS



By default, the hole located on the top of the SDOME II 130 has a diameter of 35 mm. The SDOME II 130 is delivered along with 4 accessories to be clipped on the top. If the camera's field of vision allows it, these clips help to reduce the diameter and then, to decrease the drop shadow over the workpiece.

### ■ USER SECURITY

Do respect the power supply voltages and the connection terminals.  
Do not modify or dismantle all or part of the product.  
Do not connect or clean when power is on.  
Do not watch the lighting source directly, and follow the advice below :



- If the workstation enables it, interpose a filter that will stop the lighting radiation under fixed or adjustable frame between the source and the operator.
- When these measures cannot be implemented, supply the operators with glasses (class 4) available for sale at TPL Vision.
- Forbid or limit the direct access to the lighting source (exposure into the radiation axis).
- Establish a security perimeter so as to prevent the operators from approaching the lighting source beyond the recommendations of the manufacturer, as for eye irritation is concerned.
- In any case, ensure that the chosen means properly reduce the exposition quantities (features of screens or glasses to be chosen, according to the wavelengths that the operators are exposed to).

### ■ EQUIPMENT MAINTENANCE

#### CLEANING (when the product is switched off)

Please use a soft and dry cloth. Do not use any abrasive material.  
Do not use any cleaning solvent or aggressive chemical product.  
TPL Vision recommends to use isopropyl alcohol.

### ■ OPERATING CONDITIONS

Not for outdoor use.



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Ref.UG-050502-E4, 2025/05 edition.

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## SMALL SDOME II 130 USER GUIDE

### PREAMBLE

This Technical User Guide contains warnings and guidance for correct and safe operation of the product. These instructions must be followed at all times. TPL Vision will not be held responsible for problems caused by using the product contrary to these instructions and the Warranty will be deemed invalid.



### ■ UNPACKING

Products are packed in our factory, using suitable materials for a safe transport through the usual means of transportation, in France and internationally. However, a damaged package must be reported to the carrier on delivery. Handwritten reservations must be indicated on the delivery order. Moreover, please send a letter or an email to TPL Vision as soon as possible (up to 24 hours after the delivery). If the transportation damage has not been stipulated on the delivery order and reported to TPL Vision in time, the package will not be taken back nor exchanged. To open the package, do not use any cutting blade to avoid damaging the product(s). Please use the delivered accessories, if needed (do not use any other products or equivalents to replace the delivered accessories).

### ■ RISK CLASS

The EN-62471 norm about lighting fluxes enables the classification of led lightings in 4 distinct groups, according to their hazardousness degree. Please find below an indicative table, recapitulating the classes of risk for our standard products.

Colour	Class	Risk
White WHI, Blue 470 nm, Green 525 nm, Red 630 nm, IR 880 nm	0	none

In all cases, TPL Vision recommends the use of **the protection glasses** that are listed in its catalog.

For more information about photo-biological risks, do not hesitate to contact us.



# SMALL SDOME II 130 USER GUIDE

P2/4

P3/4

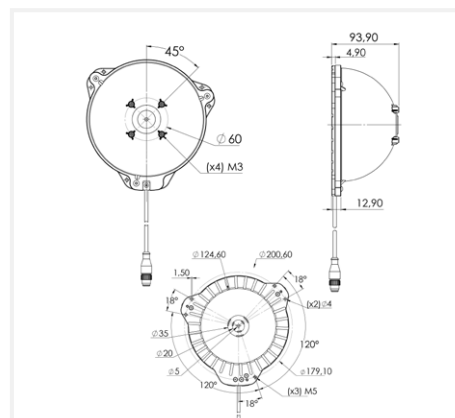


## DIMENSIONS

	Internal ø (mm)	External ø (mm)	Height (mm)
	A	B	C
SDOME II 130	124,60	200,60	93,90



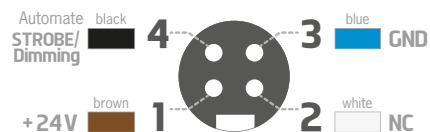
## FIXING



During the set up, the light has to be switched off and unplugged. Please use the fixing holes designed for that purpose (see scheme above). We recommend the using of M5 screws (not supplied) with a tightening torque from 0.5 to 1.5 Nm. We also recommend the use of a thread-locker (not supplied) to avoid any risk of loosening.

## CONNECTION

**M12** 4 male points



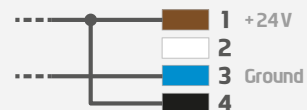
In STROBE mode:  
STROBE entry = 24 V  
or 5V TTL -> light on

FRONT VIEW OF THE PRODUCT'S CONNECTOR

### STROBE MODE CONNECTION

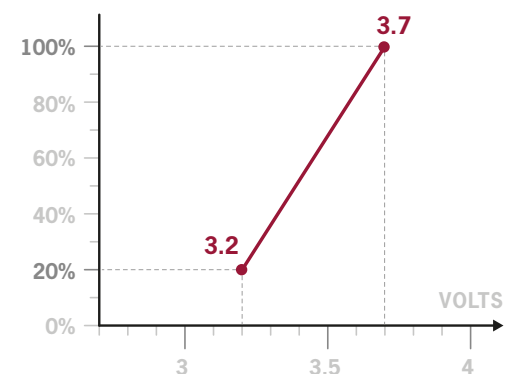


### CONTINUOUS MODE CONNECTION



## CONTROL

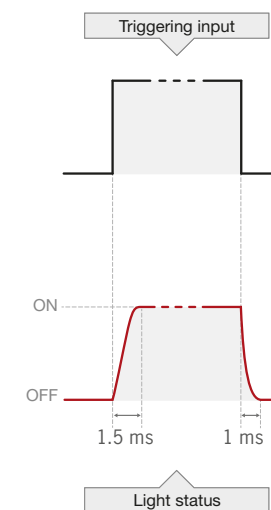
### DIMMING



**Potential dimming between 3.2 and 3.7 Volts.**

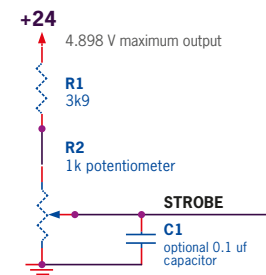
Above 3.7 Volts, the product reaches 100% of its lighting power.

### STROBE MODE

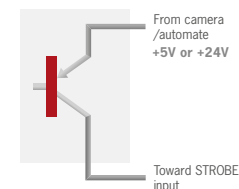


**Power supply : 24V +/-10%**  
**Strobe input : 24V or 5V TTL**

### EXTERNAL DIMMING CONFIGURATION



### PNP-LIKE AUTOMATON OUTPUT



### NPN-LIKE AUTOMATON OUTPUT

