



## Product and Price Catalogue

# LENS R&D

**FOCUS ON INNOVATION**



's-Gravendijkseweg 41b,  
2201 CZ Noordwijk,  
The Netherlands.  
Tel.+31 71 2020 123  
Mail: [info@lens-rnd.com](mailto:info@lens-rnd.com)

[www.lens-rnd.com](http://www.lens-rnd.com)

Year 2022-V1



## Lens R&D product and price catalogue as per 01-01-2022

Lens R&D develops, qualifies and sells high reliability Sun sensors optimised for recurring production in a Space grade Commercial Off The Shelf (SCOTS) approach. Batch wise production of space grade hardware, designed to fit the needs of the majority of satellites, allows to offer at an unprecedented price to performance ratio. For detailed inquiries or information that is not contained in this document please contact us through telephone or email.

### OUR TYPES OF SUNSENSORS AND ACCESSORIES

BiSon64-ET	3
BiSon64-ET-B	4
MAUS	5
Single Sampler	6
Transimpedance circuits for single sampler	7
BiSon pigtails	8
BiSon mounting material	9
Bison development pigtails	10

## Sunsensor BiSon64-ET



- High reliability fine Sunsensor
- ITAR free
- Including transport case
- Drw-nbr: 110T000

Quantity	Price per unit
1 - 5	€ 10.344
6 - 17	€ 8.620
18 - 29	€ 8.141
30 - 59	€ 7.870
≥ 60	Price on request
1-4 EM units	€ 3.105

**On request:** EIDP costs - € 3.780 per delivery batch (to be agreed upon at time of ordering)

**Prices** are excluding VAT, EXW Noordwijk (incl.transport package and ready for shipment)

**Payment conditions:** in case of stock: 100% pre-payment ; when not in stock: 60% pre-payment, 40% after notification that the units are ready for shipment

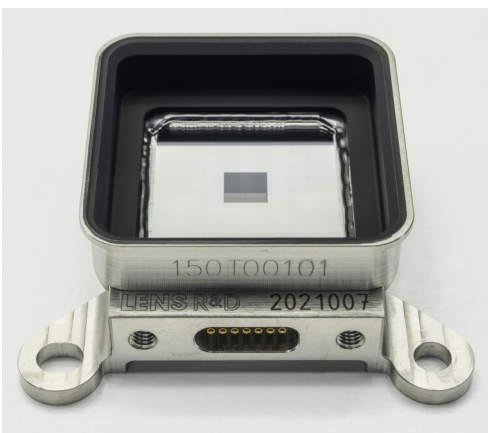
**Order handling fee:** € 150,00 for the opening order; € 50,00 for future orders

**Export licence fee in case required:** €350,00 (GEN-01 export exemption available)

**Delivery time:** if not in stock: 9-12 months after receipt of order depending availability of required parts)

To our quotes Lens R&D conditions of sales apply (to be provided on request)

## Sunsensor BiSon64-ET-B



- High reliability fine Sunsensor with integrated straylight baffle
- ITAR free
- Including transport case
- Drw-nbr: 150T001

Quantity	Price per unit
1 - 5	€ 11.785
6 - 17	€ 9.820
18 - 29	€ 9.275
30 - 59	€ 8.966
≥ 60	Price on request
1 - 4 EM units	€ 3.623

**On request:** EIDP costs - € 3.780 per delivery batch (to be agreed upon at time of ordering)

**Prices** are excluding VAT, EXW Noordwijk (incl.transport package and ready for shipment)

**Payment conditions:** in case of stock: 100% pre-payment ; when not in stock: 60% pre-payment, 40% after notification that the units are ready for shipment

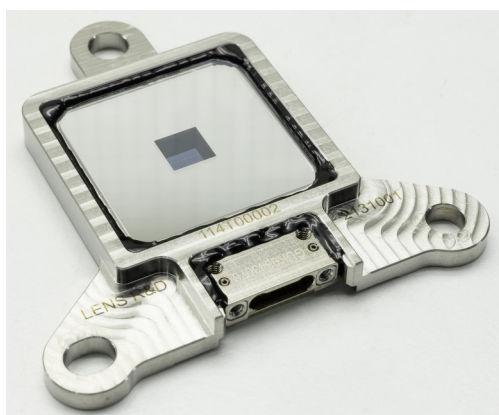
**Order handling fee:** € 150,00 for the opening order; € 50,00 for future orders

**Export licence fee in case required:** €350,00 (GEN-01 export exemption available)

**Delivery time:** if not in stock: 9-12 months after receipt of order depending availability of required parts)

To our quotes Lens R&D conditions of sales apply (to be provided on request)

## Sunsensor MAUS



Radiation hardened fine Sunsensor for nano-satellite applications.

ITAR free

Including transport case

Drw-nbr: 114T000

Quantity	Price per unit
1 - 5	€ 4.324
6 - 17	€ 3.604
18 - 29	€ 3.403
30 - 60	€ 3.290
>60	Price on request
1 - 4 EM units	€ 2.588

**Prices** are excluding VAT, EXW Noordwijk (incl.transport package and ready for shipment)

**Payment conditions:** in case of stock: 100% pre-payment ; when not in stock: 60% pre-payment, 40% after notification that the units are ready for shipment

**Order handling fee:** € 150,00 for the opening order; € 50,00 for future orders

**Export licence fee in case required:** €350,00 (GEN-01 export exemption available)

**Delivery time:** if not in stock: 9-12 months after receipt of order depending availability of required parts)

To our quotes Lens R&D conditions of sales apply (to be provided on request)



## Single Sampler EGSE



Quantity	Price per unit in €
1	€ 12.918

- Sales reference: 732S00102
- Variable transimpedance universal analogue Sunsensor interface box with USB output
- 14 bit 250 kHz 4 channel simultaneous sampling (including thermistor monitoring circuit)
- Including:
  - one transimpedance (to be specified at time of order from available transimpedances)
  - BiSon test cable
  - power cord
  - electronics schematic
  - python software interface
- Optimised for digital readout of BiSon Sunsenors but useable to readout other P substrate photodiodes as well.

**Prices** are excluding VAT, EXW Noordwijk (incl.transport package and ready for shipment)

**Payment conditions:** in case of stock: 100% pre-payment ; when not in stock: 60% pre-payment, 40% after notification that the units are ready for shipment

**Order handling fee:** € 150,00 for the opening order; € 50,00 for future orders

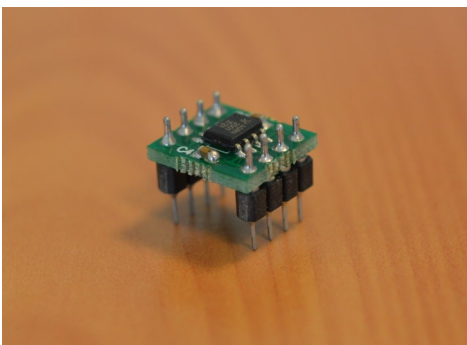
**Delivery time:** upon request (but most likely from stock)

To our quotes Lens R&D conditions of sales apply (to be provided on request)





## Transimpedance programming circuit for sampler



Available transimpedances:  
See below

Quantity	Price per unit in €
1	€ 293

- 2k $\Omega$  - Sales ref 732S50101
- 5k $\Omega$  - Sales ref 732S50201
- 10k $\Omega$  - Sales ref 732S50301
- 20k $\Omega$  - Sales ref 732S50401
- 50k $\Omega$  - Sales ref 732S50501

Required transimpedance for BiSon Sunsensor and 1 AM(0) illumination is 2k $\Omega$

**Prices** are excluding VAT

**Payment conditions:** delivery from stock: 100% pre-payment after notification that the units are ready for shipment

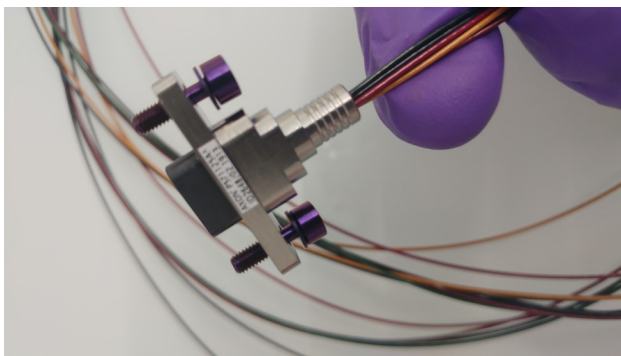
**Order handling fee:** € 150,00 for the opening order; € 50,00 for future orders

**Delivery:** ex works Noordwijk (incl.transport package)

**Delivery time:** to be discussed (but most likely from stock)

To our quotes Lens R&D conditions of sales apply (to be provided on request)

## BiSon Pigtails



- Dedicated pigtail for connection of BiSon Sensors with Titanium grade V shell
  - 1.5 m colour coded wiring according to ESCC 3901 019 03
  - Including mounting material
- Drw-nbr: 160T001

Quantity	Price per unit in €
1 - 5	€ 1.386
6 - 17	€ 1.155
18 - 29	€ 1.091
30 - 60	€ 1.054
>60	Price upon request

**On request:** EIDP costs - € 1.995 per delivery batch (to be agreed upon at time of ordering)

**Prices** are excluding VAT, EXW Noordwijk (incl.transport package and ready for shipment)

**Payment conditions:** in case of stock: 100% pre-payment ; when not in stock: 60% pre-payment, 40% after notification that the units are ready for shipment

**Order handling fee:** € 150,00 for the opening order; € 50,00 for future orders

**No export licence required**

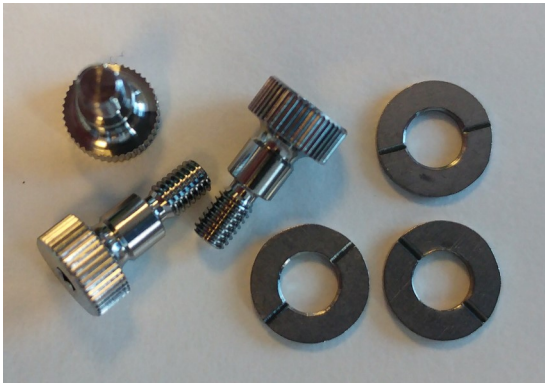
**Delivery time:** if not in stock: 9-12 months after receipt of order depending availability of required parts)

To our quotes Lens R&D conditions of sales apply (to be provided on request)





## Sunsensor Mounting Material



- Set of 3 precision fasteners and vented washers
- Anodized Grade V Titanium
- Required to reach the guaranteed 0.5° calibrated accuracy

Quantity in sets	Price per set
≥ 1	€ 142 per set

- Set of 3 stainless steel precision fasteners
- (0.1° additional inaccuracy will have to be accounted for)

Quantity in sets	Price per set
≥ 1	€ 57 per set

**Prices** are excluding VAT, EXW Noordwijk (incl. transport package and ready for shipment)

**Payment conditions:** in case of stock: 100% pre-payment ; when not in stock: 60% pre-payment, 40% after notification that the units are ready for shipment

**Order handling fee:** € 150,00 for the opening order; € 50,00 for future orders

**No export licence required**

**Delivery time:** if not in stock: 9-12 months after receipt of order depending availability of required parts)

To our quotes Lens R&D conditions of sales apply (to be provided on request)



## Development pigtails



- Dedicated aluminium shell pigtail
- 1.5 m colour coded teflon wires
- Drw.nbr: 500E008

Quantity	Price per unit in €
1 - 4	€ 301
5 - 9	€ 283
≥ 10	€ 264

**Prices** are including transport package ; excluding VAT

**Payment conditions:** 100% prepayment after notification that the units are ready for shipment;

**Order handling fee:** € 150,00 for the opening order; € 50,00 for future orders

**Delivery:** ex works Noordwijk (incl.transport package)

**Delivery time:** immediate availability until end of stock

To our quotes Lens R&D conditions of sales apply. (to be provided on request)