

Material Composition Product Declaration

Manufacturer:

Teledyne DALSA, a business unit of Teledyne Digital Imaging, Inc. ("Teledyne DALSA" or "Manufacturer")

Address:

605 McMurray Rd.
Waterloo, Ontario
N2V 2E9 Canada

Product Name: BOA**Part Number(s):**

BO-31-01M22-00-R	BVS50-1024M/1280M-x	BO-31-02M20-00-R	BVS50-1600M-x
BO-31-3HK60-00-R	BVS50-0640M-x	BO-32-01M22-00-R	BVS50-1024C/1280M-x
BO-32-3HK60-00-R	BVS50-0640C-x		

Description:

This product is a Machine Vision Camera intended to be a component of a larger industrial system.

Notes:

The use of 'x' in the product part number above refers to any and all variations.

Disclaimer:

The information provided herein is intended to assist Customer to comply with the referenced laws and regulations. The information provided herein is true and correct, to the best of Manufacturer's knowledge and belief. While Manufacturer has used reasonable methods to ensure the accuracy of this information, Manufacturer has relied upon information provided by third parties that Manufacturer is not able to independently verify. Manufacturer's General Terms and Conditions of Sale, or the terms and conditions of any agreement that Manufacturer and Customer may enter or have entered into with respect to the purchase and sale of the identified product, shall be determinative of Manufacturer's liability and Customer's remedies with respect to the identified product, including any dispute related to the information contained herein.

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1. Declaration: European Directive 2011/65/EU Restriction of Hazardous Substances and amendment 2015/863 (RoHS)

This product belongs to EU RoHS Category 9: Monitoring and control equipment and conforms to the following Directive articles:

Article 4(1): Product does not contain restricted substances above maximum concentration values tolerated by weight in homogeneous materials, as follows:

- ❖ Lead (0.1 %)
- ❖ Mercury (0.1 %)
- ❖ Cadmium (0.01 %)
- ❖ Hexavalent chromium (0.1 %)
- ❖ Polybrominated biphenyls (PBB) (0.1 %)
- ❖ Polybrominated diphenyl ethers (PBDE) (0.1 %)
- ❖ Bis(2-Ethylhexyl) phthalate (DEHP) (0.1%)
- ❖ Benzyl butyl phthalate (BBP) (0.1%)
- ❖ Dibutyl phthalate (DBP) (0.1%)
- ❖ Diisobutyl phthalate (DIBP) (0.1%)

Article 4(6): The following Application Exemptions (Annex # - Exemption #) are declared for this Product:

III-6(c)	Copper alloy containing up to 4 % lead by weight
III-7(a)	Lead in high melting temperature type solders (i.e. lead- based alloys containing 85 % by weight or more lead)
III-7(c)-I	Electrical and electronic components containing lead in a glass or ceramic other than dielectric ceramic in capacitors, e.g. piezoelectronic devices, or in a glass or ceramic matrix compound.

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2. Declaration: European Regulation (EC) No 1907/2006 Registration, Evaluation Authorization and Restriction of Chemicals (REACH)

Teledyne DALSA manufactures products that would be considered an Article according to regulation Article 3(3): "an object which during production is given a special shape, surface or design which determines its function to a greater degree than its chemical composition".

As a manufacturer established outside of the European Economic Area (EEA), Teledyne DALSA does not have direct obligations under the REACH Regulation however we understand that the businesses that import our products into the EEA may have such obligations.

The following requirements may be of relevance to importers:

1. **Article 7(1): Registration** – if substances in articles are intended to be released during normal and reasonable foreseeable conditions of use and are present exceeding one tonne per year they are required to be registered.

Teledyne DALSA products do not contain any substances intended to be released during normal and reasonably foreseeable use conditions.

2. **Article 7(2): Notification** – when substances of very high concern (SVHC) included on the candidate list for authorization are imported in amounts in excess of 1 tonne per year and present in articles in concentrations > 0.1% wt/wt of the article notification of the European Chemical Agency (ECHA) is required.

Teledyne DALSA does not import SVHCs in amounts in excess of 1 tonne per year and products do not contain SVHCs as identified in the latest ECHA Authorization List (link provided below) in excess of 0.1% wt/wt of the Article.

<https://echa.europa.eu/candidate-list-table>

3. **Article 33: Communicate** – when SVHCs included on the candidate list are included in articles in concentrations about 0.1% wt/wt of the article recipients of the articles must be provided information for the Articles safe use.

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Teledyne DALSA products may contain SVHCs as identified in the latest ECHA Candidate List of Substances (link provided below) in excess of 0.1% wt/wt of the article. Refer to Table 1 for a list of SVHCs that are used in some Articles within this product.

<https://echa.europa.eu/candidate-list-table>

Table 1

Substance Name	EC number	CAS Number
Lead	231-100-4	7439-92-1
Lead titanium trioxide	235-038-9	12060-00-3
Octamethylcyclotetrasiloxane	209-136-7	556-67-2
diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide	278-355-8	75980-60-8
4,4'-isopropylidenediphenol	201-245-8	80-05-7

4. **Article 56: General Provisions** – substances incorporated into articles included in Annex XIV cannot be placed on the market for use after the sunset date unless it has been authorized or exempted.

Teledyne DALSA monitors the composition of materials used within its products and will comply with the provisions based on the contents of Annex XIV by the applicable sunset dates.

<https://echa.europa.eu/authorisation-list>

5. **Article 67: General Provisions** – substances in an article for which Annex XVII contains a restriction shall not be placed on the market for use unless it complies with the condition of restriction.

Teledyne DALSA products do not contain restricted substances as identified (link provided below) in accordance with applicable conditions.

<https://echa.europa.eu/substances-restricted-under-reach>

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3. Declaration: Electronic Information Product Disclosure Record (China RoHS)

电子信息产品声明记录(China RoHS)

根据中华人民共和国电子行业标准 SJ/T11364-2014, 《电子信息产品污染控制标识及要求》, 声明如下:

According to the Electronic Industry Standard of the People's Republic of China, SJ/T11364-2014, "Electronic Information Products Pollution Control Labeling and Requirements", the statement is as follows:

产品型号: BOA

Product part number:

BO-31-01M22-00-R	BVS50-1024M/1280M-x	BO-31-02M20-00-R	BVS50-1600M-x
BO-31-3HK60-00-R	BVS50-0640M-x	BO-32-01M22-00-R	BVS50-1024C/1280M-x
BO-32-3HK60-00-R	BVS50-0640C-x		

环保使用期限 Environmental protection use period (E P U P)

上述引用的产品型号将保证 20 年的环保使用期限。环保使用期限 (E P U P) 是指从生产日期开始, 在正常操作条件使用电子信息产品 (E I P), 电子信息产品中含的有毒有害物质或元素不致发生外泄或突变, 从而对环境造成污染或对人体、财产造成严重损害的期限。

The product part number above will guarantee an EPUP of 20 years. Environmental protection use period (EPUP) refers to the period from the date of production, under the normal operating condition of the electronic information product (EIP). The toxic and harmful substances or elements contained in the electronic information product will not leak or mutate, thereby causing pollution to the environment or serious damage to people or property.

在环保使用期内, 产品适用的条件如下所述: During the environmental protection use period, the applicable conditions for the product are as follows:

电源: +12 至 +30 伏直流电 Power Supply: +12 to +15VDC

工作温度: 0 至 45 °C (产品表面) Operation temperature: 0~45°C (at the product surface)

湿度: 非凝结 Humidity: Non-condensing without IP67 lens cover



注解: 除非本文明确表述以及根据 SJ / T 1 1 3 6 4 — 2 0 1 4 强制性条款要求, Teledyne DALSA 不对 EPUP 做出任何形式的明示或暗示的陈述或保证, 并明确否认任何明示或暗示的陈述或保证, 并且明确否认与 EPUP 相关的任何明示或暗示的陈述或保证。

Teledyne Confidential; Commercially Sensitive Business Data

<http://www.teledynedalsa.com/imaging/products/>

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Note: Except as expressly stated herein and as required under mandatory provisions of the SJ/T11364-2014, Teledyne DALSA makes no representation or warranty of any kind, expressed or implied, with respect to EPUP and expressly disclaims any representations or warranties, expressed or implied, with respect to the EPUP.

Names and Contents of Toxic or Hazardous Substances or Elements in Product 产品中有害、有毒物质或元素的名称及组成						
Part Name 零件名称	Hazardous Substances 有害物质					
	Lead (Pb) 铅 (Pb)	Mercury (Hg) 汞 (Hg)	Cadmium (Cd) 镉 (Cd)	Hexavalent Chromium (Cr (VI)) 六价铬 ((Cr (VI))	Polybrominated biphenyls (PBB) 多溴联苯 (PBB)	Polybrominated diphenyl ethers (PBDE) 多溴二苯醚 (PBDE)
PCB 印刷电路板	X	0	0	0	0	0
Cable/Connectors 电缆/连接器	0	0	0	0	0	0
Metal Enclosure 金属外壳	0	0	0	0	0	0
Screws 螺丝	0	0	0	0	0	0
Rubber 橡胶	0	0	0	0	0	0
Image Sensor 图像传感器	0	0	0	0	0	0
<p><u>This table is prepared in accordance with the provisions of SJ/T11364.</u> 此表是依照 SJ / T11364 的条款制备。 O: Indicates that said hazardous substance contained in all of the homogeneous materials for this part is below the limit requirement of GB/T 26572. O: 表示该有害物质的含量在零件的均质材料中未超过 GB / T 26572 限量标准所规定的限值。 X: Indicates that the said hazardous substance contained in at least one of the homogeneous materials used for this part is above the limit requirement of GB/T 26572. X: 表示该有害物质的含量在零件的至少一种均质材料中超过 GB / T 26572 限量标准所规定的限值。</p>						

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4. Product Packaging

The packaging for this product conforms to the following requirements:

European Directive 94/62/EC Packaging and Packaging Waste:

Article 8 (2, 3) Marking and Identification

Article 11 (1) Concentration levels of heavy metals present in packaging

China's "Administration on the Control of Pollution Caused by Electronic Information Products":

GB 18455-2010 Packing Recycling Mark

5. Accessories

Compatible accessories, within the following categories, comply to the requirements denoted within:

- ❖ Cables
- ❖ Lens adapters
- ❖ Mechanical adapters

This section only applies to Accessory part numbers having a "-R" suffix at the end of the full orderable part number.

6. Contact Information

Email: TDI_Environmental.Regulatory.Compliance.DDI@Teledyne.com

7. Teledyne DALSA Environmental Information

<http://www.teledynedalsa.com/en/company/environmental-compliance/>

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8. Revision History

DATE	Rev	Originator	Change
25-May-2012	00	Chris Renn	Initial Release
26-Aug-2016	01	Dave Kennedy	Updated to new template, exemption list.
1-Apr-2020	02	Mary Weber	Update to new template and part number added.
30-July-2020	03	Mary Weber	Update to add another part number.
11-July-2024	04	Dave Kennedy	Update part number list, update to current template.

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