

## XBO for CHRISTIE Projectors

### Areas of application

- Digital Cinema Projection



### Product features and benefits

- High luminance for brighter screen illumination
- A lifetime of consistent performances with constant 6000 K color temperature
- Continuous spectrum in the visible range
- High arc stability
- High arc stability
- Dimmable over a wide range
- Hot restart



Product family datasheet

Technical data

| Product description   | General Product Information  |                                   |                           | Electrical Data |
|-----------------------|------------------------------|-----------------------------------|---------------------------|-----------------|
|                       | Product number<br>(Americas) | Product name<br>(Americas)        | Global order<br>reference | Nominal wattage |
| XBO 1400 W/DTS OFR    | 68891                        | XBO 1400W/DTS<br>1/CS 1/SKU       | XBO 1400 W/DTS<br>OFR     | 1400 W          |
| XBO 1600 W/DTS OFR    | 68892                        | XBO 1600W/DTS<br>1/CS 1/SKU       | XBO 1600 W/DTS<br>OFR     | 1600 W          |
| XBO 1800 W/DTS OFR    | 68880                        | XBO 1800W/DTS<br>1/CS 1/SKU       | XBO 1800 W/DTS<br>OFR     | 1800 W          |
| XBO 2000 W/DTS OFR    | 68881                        | XBO 2000W/DTS<br>1/CS 1/SKU       | XBO 2000 W/DTS<br>OFR     | 2000 W          |
| XBO 2000 W/DTP L OFR  | 68882                        | XBO 2000W/DTP L<br>1/CS 1/SKU     | XBO 2000 W/DTP L<br>OFR   | 2000 W          |
| XBO 2100 W/DTS OFR    | 68879                        | XBO 2100W/DTS<br>1/CS 1/SKU       | XBO 2100 W/DTS<br>OFR     | 2100 W          |
| XBO 2300 W/DTS OFR    | 68889                        | XBO 2300W/DTS<br>1/CS 1/SKU       | XBO 2300 W/DTS<br>OFR     | 2300 W          |
| XBO 3000 W/DTS OFR    | 69063                        | XBO 3000W/DTS<br>1/CS 1/SKU       | XBO 3000 W/DTS<br>OFR     | 3000 W          |
| XBO 3000 W/DTP OFR    | 69154                        | XBO 3000W/DTP<br>1/CS 1/SKU       | XBO 3000 W/DTP<br>OFR     | 3000 W          |
| XBO 3000 W/DTP L OFR  | 17106                        | XBO 3000W/DTP L<br>OFR 1/CS 1/SKU | XBO 3000 W/DTP L<br>OFR   | 3000 W          |
| XBO 4500 W/DTP OFR    | 69459                        | XBO 4500W/DTP<br>1/CS 1/SKU       | XBO 4500 W/DTP<br>OFR     | 4500 W          |
| XBO 4500 W/DTP L OFR  | 69052                        | XBO 4500W/DTP L<br>1/CS 1/SKU     | XBO 4500 W/DTP L<br>OFR   | 4500 W          |
| XBO 6000 W/DTP OFR    | 69460                        | XBO 6000W/DTP<br>1/CS 1/SKU       | XBO 6000 W/DTP<br>OFR     | 6000 W          |
| XBO 6000 W/DTP L OFR  | 69055                        | XBO 6000W/DTP L<br>1/CS 1/SKU     | XBO 6000 W/DTP L<br>OFR   | 6000 W          |
| XBO 6000 W/DTP XL OFR | 59970                        | XBO 6000W/DTP XL<br>1/CS 1/SKU    | XBO 6000 W/DTP XL<br>OFR  | 6000 W          |

| Product description  | Current control range | Photometric Data                   |                          |                   |
|----------------------|-----------------------|------------------------------------|--------------------------|-------------------|
|                      |                       | Light<br>center<br>length<br>(LCL) | Nominal luminous<br>flux | Color temperature |
| XBO 1400 W/DTS OFR   | 40...70 A             | 100.5 mm <sub>1)</sub>             |                          |                   |
| XBO 1600 W/DTS OFR   | 50...80 A             | 100.5 mm <sub>1)</sub>             |                          |                   |
| XBO 1800 W/DTS OFR   | 50...83 A             | 100.5 mm <sub>1)</sub>             |                          |                   |
| XBO 2000 W/DTS OFR   | 60...90 A             | 100.5 mm <sub>1)</sub>             |                          |                   |
| XBO 2000 W/DTP L OFR | 64...95 A             | 160.0 mm <sub>1)</sub>             | 80000 lm                 | 6000 K            |
| XBO 2100 W/DTS OFR   | 60...85 A             | 120.5 mm <sub>1)</sub>             |                          |                   |

Product family datasheet

| Product description   | Current control range | Photometric Data          |                       |                   |
|-----------------------|-----------------------|---------------------------|-----------------------|-------------------|
|                       |                       | Light center length (LCL) | Nominal luminous flux | Color temperature |
| XBO 2300 W/DTS OFR    | 60...90 A             | 100.5 mm <sup>1)</sup>    |                       |                   |
| XBO 3000 W/DTS OFR    | 77...113 A            | 125.0 mm <sup>1)</sup>    |                       |                   |
| XBO 3000 W/DTP OFR    | 74...109 A            | 160.0 mm <sup>1)</sup>    | 130000 lm             |                   |
| XBO 3000 W/DTP L OFR  | 74...109 A            | 160.0 mm <sup>1)</sup>    |                       |                   |
| XBO 4500 W/DTP OFR    | 108...155 A           | 165.0 mm <sup>1)</sup>    |                       |                   |
| XBO 4500 W/DTP L OFR  | 108...155 A           | 165.0 mm <sup>1)</sup>    |                       |                   |
| XBO 6000 W/DTP OFR    | 140...175 A           | 165.0 mm <sup>1)</sup>    | 270000 lm             |                   |
| XBO 6000 W/DTP L OFR  | 130...166 A           | 165.0 mm <sup>1)</sup>    |                       |                   |
| XBO 6000 W/DTP XL OFR | 130...175 A           | 165.0 mm <sup>1)</sup>    |                       |                   |

| Product description   | Color rendering index Ra | Physical Attributes & Dimensions |              |                |
|-----------------------|--------------------------|----------------------------------|--------------|----------------|
|                       |                          | Electrode gap (cold)             | Base (anode) | Base (cathode) |
| XBO 1400 W/DTS OFR    |                          | 3.7 mm                           | Cable        | SFc30-20       |
| XBO 1600 W/DTS OFR    |                          | 3.7 mm                           | Cable        | SFc30-20       |
| XBO 1800 W/DTS OFR    |                          | 3.7 mm                           | Cable        | SFc30-20       |
| XBO 2000 W/DTS OFR    |                          | 3.7 mm                           | Cable        | SFc30-20       |
| XBO 2000 W/DTP L OFR  | 98                       | 4.5 mm                           | SFa30-14     | SFc30-14       |
| XBO 2100 W/DTS OFR    |                          | 3.7 mm                           | Cable        | SFc30-20       |
| XBO 2300 W/DTS OFR    |                          | 3.7 mm                           | Cable        | SFc30-20       |
| XBO 3000 W/DTS OFR    |                          | 4.8 mm                           | SFa30-14     | SFc30-14       |
| XBO 3000 W/DTP OFR    |                          | 6.0 mm                           | SFa30-14     | SFc30-14       |
| XBO 3000 W/DTP L OFR  |                          | 6.0 mm                           | SFa30-14     | SFc30-14       |
| XBO 4500 W/DTP OFR    |                          | 5.8 mm                           | SFa30-14     | SFc30-14       |
| XBO 4500 W/DTP L OFR  |                          | 5.8 mm                           | SFa30-14     | SFc30-14       |
| XBO 6000 W/DTP OFR    |                          | 7.5 mm                           | SFa30-14     | SFc30-14       |
| XBO 6000 W/DTP L OFR  |                          | 8.0 mm                           | SFa30-14     | SFc30-14       |
| XBO 6000 W/DTP XL OFR |                          | 8.0 mm                           | SFa30-14     | SFc30-14       |

| Product description  | Diameter | Diameter | Length   | Length with base excl. base pins/connection |
|----------------------|----------|----------|----------|---------------------------------------------|
| XBO 1400 W/DTS OFR   | 46.0 mm  | 46.0 mm  | 245.0 mm | 202.00 mm                                   |
| XBO 1600 W/DTS OFR   | 46.0 mm  | 46.0 mm  | 245.0 mm | 202.00 mm                                   |
| XBO 1800 W/DTS OFR   | 46.0 mm  | 46.0 mm  | 245.0 mm | 202.00 mm                                   |
| XBO 2000 W/DTS OFR   | 46.0 mm  | 46.0 mm  | 245.0 mm | 202.00 mm                                   |
| XBO 2000 W/DTP L OFR | 55.0 mm  | 55.0 mm  | 397.0 mm | 354.00 mm                                   |

## Product family datasheet

| Product description   | Diameter | Diameter | Length   | Length with base excl. base pins/connection |
|-----------------------|----------|----------|----------|---------------------------------------------|
| XBO 2100 W/DTS OFR    | 46.0 mm  | 46.0 mm  | 265.0 mm | 222.00 mm                                   |
| XBO 2300 W/DTS OFR    | 46.0 mm  | 46.0 mm  | 245.0 mm | 202.00 mm                                   |
| XBO 3000 W/DTS OFR    | 60.0 mm  | 60.0 mm  | 335.0 mm | 285.00 mm                                   |
| XBO 3000 W/DTP OFR    | 60.0 mm  | 60.0 mm  | 397.0 mm | 354.00 mm                                   |
| XBO 3000 W/DTP L OFR  | 60.0 mm  | 60.0 mm  | 397.0 mm | 354.00 mm                                   |
| XBO 4500 W/DTP OFR    | 60.0 mm  | 60.0 mm  | 426.0 mm | 383.00 mm                                   |
| XBO 4500 W/DTP L OFR  | 60.0 mm  | 60.0 mm  | 426.0 mm | 383.00 mm                                   |
| XBO 6000 W/DTP OFR    | 78.0 mm  | 78.0 mm  | 426.0 mm | 383.00 mm                                   |
| XBO 6000 W/DTP L OFR  | 78.0 mm  | 78.0 mm  | 426.0 mm | 383.00 mm                                   |
| XBO 6000 W/DTP XL OFR | 78.0 mm  | 78.0 mm  | 426.0 mm | 383.00 mm                                   |

|                       |                     |                |               | Operating Conditions  |
|-----------------------|---------------------|----------------|---------------|-----------------------|
| Product description   | Connector: presence | Product weight | Diameter (in) | Burning position      |
| XBO 1400 W/DTS OFR    | Yes                 | 370.00 g       |               | s15/p15 <sup>2)</sup> |
| XBO 1600 W/DTS OFR    | Yes                 | 370.00 g       |               | s15/p15 <sup>2)</sup> |
| XBO 1800 W/DTS OFR    | Yes                 | 370.00 g       |               | s15/p15 <sup>2)</sup> |
| XBO 2000 W/DTS OFR    | Yes                 | 370.00 g       |               | s15/p15 <sup>2)</sup> |
| XBO 2000 W/DTP L OFR  |                     | 483.00 g       |               | s15/p15 <sup>2)</sup> |
| XBO 2100 W/DTS OFR    | Yes                 | 380.00 g       |               | s15/p15 <sup>2)</sup> |
| XBO 2300 W/DTS OFR    | Yes                 | 370.00 g       |               | s15/p15 <sup>2)</sup> |
| XBO 3000 W/DTS OFR    |                     | 520.00 g       | 2.165 in      | s15/p15 <sup>2)</sup> |
| XBO 3000 W/DTP OFR    |                     | 536.00 g       | 2.362 in      | s15/p15 <sup>2)</sup> |
| XBO 3000 W/DTP L OFR  |                     | 536.00 g       | 2.362 in      | s15/p15 <sup>2)</sup> |
| XBO 4500 W/DTP OFR    |                     | 783.00 g       | 2.362 in      | s15/p15 <sup>2)</sup> |
| XBO 4500 W/DTP L OFR  |                     | 783.00 g       |               | s15/p15 <sup>2)</sup> |
| XBO 6000 W/DTP OFR    |                     | 920.00 g       | 2.756 in      | s15/p15 <sup>2)</sup> |
| XBO 6000 W/DTP L OFR  |                     | 920.00 g       |               | s15/p15 <sup>2)</sup> |
| XBO 6000 W/DTP XL OFR |                     | 920.00 g       |               | s15/p15 <sup>2)</sup> |

|                      |         |                                          | Lifetime Data  |                           |
|----------------------|---------|------------------------------------------|----------------|---------------------------|
| Product description  | Cooling | Max. permitted ambient temp. pinch point | Warranty hours | Service warranty lifetime |
| XBO 1400 W/DTS OFR   | Forced  | 230 °C                                   | 3250 hrs       | 3500 hr                   |
| XBO 1600 W/DTS OFR   | Forced  | 230 °C                                   | 3250 hrs       | 3500 hr                   |
| XBO 1800 W/DTS OFR   | Forced  | 230 °C                                   | 1800 hrs       | 2100 hr                   |
| XBO 2000 W/DTS OFR   | Forced  | 230 °C                                   | 1300 hrs       | 1500 hr                   |
| XBO 2000 W/DTP L OFR | Forced  | 230 °C                                   | 3300 hrs       | 4000 hr                   |
| XBO 2100 W/DTS OFR   | Forced  | 230 °C                                   | 1000 hrs       | 1500 hr                   |
| XBO 2300 W/DTS OFR   | Forced  | 230 °C                                   | 1000 hrs       | 1200 hr                   |
| XBO 3000 W/DTS OFR   | Forced  | 230 °C                                   | 1200 hrs       | 1500 hr                   |
| XBO 3000 W/DTP OFR   | Forced  | 230 °C                                   | 1500 hrs       | 2500 hr                   |
| XBO 3000 W/DTP L OFR | Forced  | 230 °C                                   | 1900 hrs       | 2800 hr                   |

## Product family datasheet

| Product description   | Cooling | Max. permitted ambient temp. pinch point | Lifetime Data  |                           |
|-----------------------|---------|------------------------------------------|----------------|---------------------------|
|                       |         |                                          | Warranty hours | Service warranty lifetime |
| XBO 4500 W/DTP OFR    | Forced  | 230 °C                                   | 1000 hrs       | 1300 hr                   |
| XBO 4500 W/DTP L OFR  | Forced  | 230 °C                                   | 1300 hrs       | 1500 hr                   |
| XBO 6000 W/DTP OFR    | Forced  | 230 °C                                   | 600 hrs        | 750 hr                    |
| XBO 6000 W/DTP L OFR  | Forced  | 230 °C                                   | 800 hrs        | 1100 hr                   |
| XBO 6000 W/DTP XL OFR | Forced  | 230 °C                                   | 1000 hrs       | 1200 hr                   |

| Environmental & Regulatory Information<br>Information according Art. 33 of EU Regulation (EC) 1907/2006 (REACH) |                                               |                                      |                            |                        |
|-----------------------------------------------------------------------------------------------------------------|-----------------------------------------------|--------------------------------------|----------------------------|------------------------|
| Product description                                                                                             | Primary article identifier                    | Declaration no. in SCIP database     | Candidate list substance 1 | CAS No. of substance 1 |
| XBO 1400 W/DTS OFR                                                                                              | 4052899417793                                 | 44c9ce65-f5ed-44dd-a504-39f577e463b2 | Lead                       | 7439-92-1              |
| XBO 1600 W/DTS OFR                                                                                              | 4052899417786                                 | 6ce18136-8e41-4ce4-8ffe-a9270a50dd0e | Lead                       | 7439-92-1              |
| XBO 1800 W/DTS OFR                                                                                              | 4052899343276                                 | 769ad45d-8aa4-41da-95d2-7a202cd96d40 | Lead                       | 7439-92-1              |
| XBO 2000 W/DTS OFR                                                                                              | 4052899308862                                 | 66491b7e-039c-4c96-989f-136b5a44c8aa | Lead                       | 7439-92-1              |
| XBO 2000 W/DTP L OFR                                                                                            | 4052899287884                                 | 2ae32466-4952-4d1e-97cf-88f3fdb3f387 | Lead                       | 7439-92-1              |
| XBO 2100 W/DTS OFR                                                                                              | 4052899376328                                 | 4b279723-394c-4c44-8a7d-8804506cabf5 | Lead                       | 7439-92-1              |
| XBO 2300 W/DTS OFR                                                                                              | 4052899359659                                 | bccb6f98-b1df-4b09-9777-7d0c95b57df6 | Lead                       | 7439-92-1              |
| XBO 3000 W/DTS OFR                                                                                              | 4008321645050   4008321865519   4062172030489 | 78e1128f-b105-4cf7-b75e-d67dd1f18348 | Lead                       | 7439-92-1              |
| XBO 3000 W/DTP OFR                                                                                              | 4008321191540   4052899509474                 | cdf74e98-4a09-4bdf-8cd1-2fd9bd8791fb | Lead                       | 7439-92-1              |
| XBO 3000 W/DTP L OFR                                                                                            | 4052899430549                                 | 7f64dd22-3fef-4f43-9687-e059a2780381 | Lead                       | 7439-92-1              |
| XBO 4500 W/DTP OFR                                                                                              | 4062172031387   4008321372734                 | 782fd8ec-c849-4938-8aa7-c7e3cf98de9b | Lead                       | 7439-92-1              |
| XBO 4500 W/DTP L OFR                                                                                            | 4062172026567   4052899343399   4062172030601 | e3531c7a-3edc-44b5-9af1-e8897b026c25 | Lead                       | 7439-92-1              |
| XBO 6000 W/DTP OFR                                                                                              | 4008321549709   4052899143975   4062172030700 | e4f4b242-7a8c-498b-b228-5826958e5b02 | Lead                       | 7439-92-1              |
| XBO 6000 W/DTP L OFR                                                                                            | 4062172030717   4052899343429                 | f6d89da4-51dd-4635-9c45-ab11c9570709 | Lead                       | 7439-92-1              |

Product family datasheet

| Environmental & Regulatory Information<br>Information according Art. 33 of EU Regulation (EC) 1907/2006 (REACH) |                            |                                      |                            |                        |
|-----------------------------------------------------------------------------------------------------------------|----------------------------|--------------------------------------|----------------------------|------------------------|
| Product description                                                                                             | Primary article identifier | Declaration no. in SCIP database     | Candidate list substance 1 | CAS No. of substance 1 |
| XBO 6000 W/DTP XL OFR                                                                                           | 4062172111652              | e4fe5722-8080-4b1b-84a7-cff7b12548e4 | Lead                       | 7439-92-1              |

| Product description  | Safe use instruction                                                                               |
|----------------------|----------------------------------------------------------------------------------------------------|
| XBO 1400 W/DTS OFR   | The identification of the Candidate List substance is sufficient to allow safe use of the article. |
| XBO 1600 W/DTS OFR   | The identification of the Candidate List substance is sufficient to allow safe use of the article. |
| XBO 1800 W/DTS OFR   | The identification of the Candidate List substance is sufficient to allow safe use of the article. |
| XBO 2000 W/DTS OFR   | The identification of the Candidate List substance is sufficient to allow safe use of the article. |
| XBO 2000 W/DTP L OFR | The identification of the Candidate List substance is sufficient to allow safe use of the article. |
| XBO 2100 W/DTS OFR   | The identification of the Candidate List substance is sufficient to allow safe use of the article. |
| XBO 2300 W/DTS OFR   | The identification of the Candidate List substance is sufficient to allow safe use of the article. |

## Product family datasheet

| Product description   | Safe use instruction                                                                               |
|-----------------------|----------------------------------------------------------------------------------------------------|
| XBO 3000 W/DTS OFR    | The identification of the Candidate List substance is sufficient to allow safe use of the article. |
| XBO 3000 W/DTP OFR    | The identification of the Candidate List substance is sufficient to allow safe use of the article. |
| XBO 3000 W/DTP L OFR  | The identification of the Candidate List substance is sufficient to allow safe use of the article. |
| XBO 4500 W/DTP OFR    | The identification of the Candidate List substance is sufficient to allow safe use of the article. |
| XBO 4500 W/DTP L OFR  | The identification of the Candidate List substance is sufficient to allow safe use of the article. |
| XBO 6000 W/DTP OFR    | The identification of the Candidate List substance is sufficient to allow safe use of the article. |
| XBO 6000 W/DTP L OFR  | The identification of the Candidate List substance is sufficient to allow safe use of the article. |
| XBO 6000 W/DTP XL OFR | The identification of the Candidate List substance is sufficient to allow safe use of the article. |

<sup>1)</sup> Distance from end of base to tip of electrode (cold)

<sup>2)</sup> For vertical burning position: anode (+) on top

## Product family datasheet

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### Safety advice

Because of their high luminance, UV radiation and internal pressure in both the hot and cold state, XBO lamps may only be operated in enclosed lamp casings specially constructed for the purpose. Xenon lamps are highly explosive. When hot, xenon lamps can cause burn marks. They should only be handled when the lamp is at room temperature. Always use the protective jackets supplied when handling these lamps. When packing the lamps and when installing or removing the lamps without their protective jackets, always wear protective clothing (face shield with neck protector, protective jacket and lint-free, cut-resistant gloves). For more information see the relevant in-pack leaflets and operating instructions.

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### Application advice

For more detailed application information and graphics please see product datasheet.

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### Disclaimer

Subject to change without notice. Errors and omission excepted. Always make sure to use the most recent release.