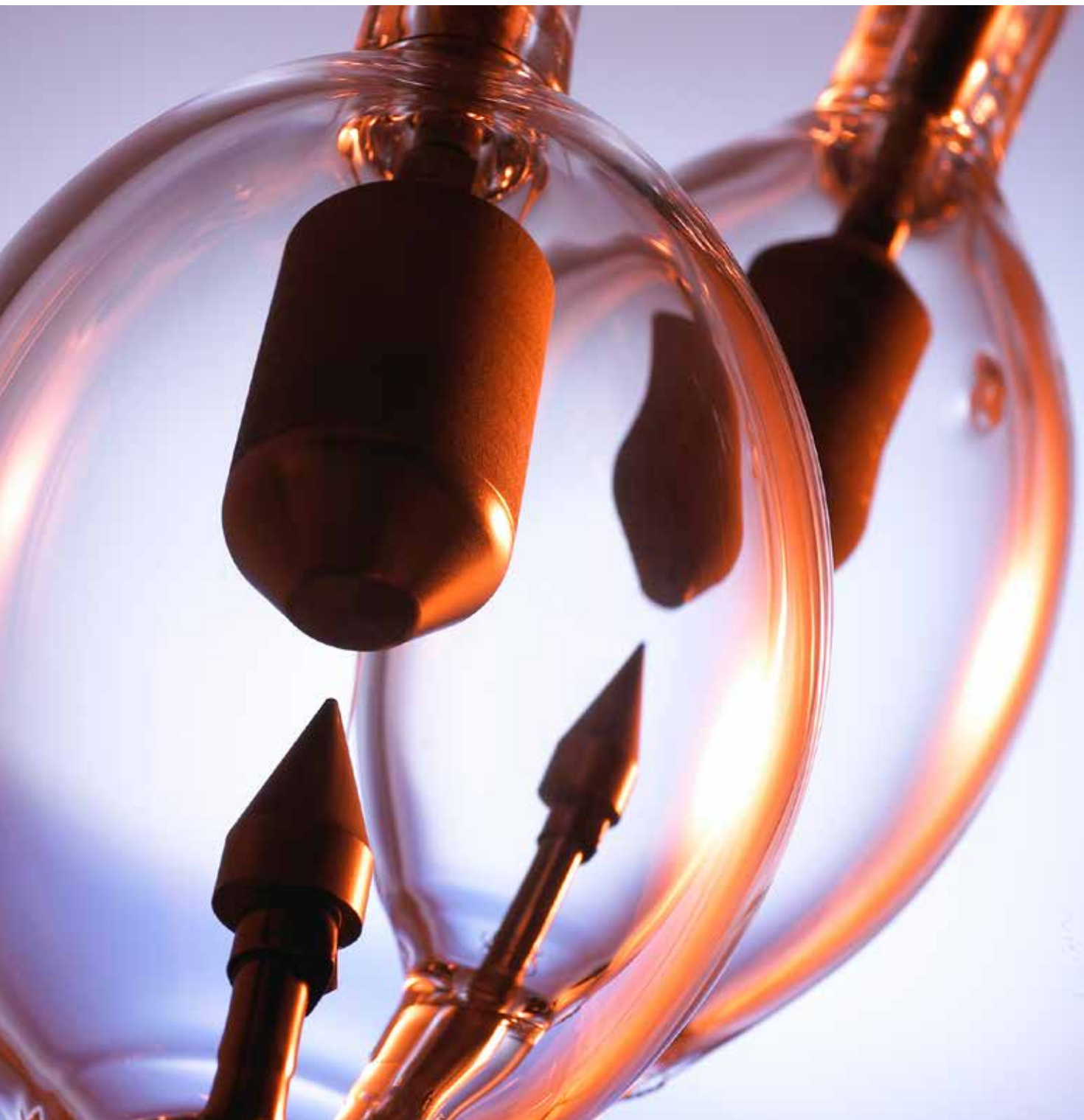


USHIO

Xenon Lamps

for cinema projectors



Bring Cinema To Life

Since our foundation in 1964, we have distinguished ourselves on the international stage through our inherent appetite for innovation. From xenon to halogen lamps, USHIO manufactures products that reconceive the definition of cutting edge technology. That is why we remain unsurpassed as the world leader in specialist lighting solutions.

Over the course of our history, we have taken great pride in our devotion to the development of lamps for cinema projectors. USHIO was the first manufacturer worldwide to make xenon short arc lamps specifically for use in cinemas. Cinema operators and projector manufacturers alike, quickly realised that we deliver the best equipment on the market, and continue to do so, over half a century later.

More than half of the cinemas on Earth already use our high-quality lamps. We place no significance on whether our customers require projector lamps for just one picture theatre or for an entire chain of 25 screen multiplexes. We offer the largest range of cinema lamps and tailor-made solutions for cinemas of any size and all major projectors.

USHIO has mastered, and continues to uphold, an ethos of quality without compromise. Our predominantly handmade lamps are made with such precision that their reliability may never be challenged. Be it a traditional 35mm UXL bulb or from our digital DXL line, you will always find the right lamp, in our extensive xenon collection, to bring your cinema to life.

Hand-Crafted Precision for first-class technology

“To reach the level of perfection expected by our customers, we put our technicians through rigorous training. We prepare them for the intricate challenges facing them, as they expertly craft each glass lamp by hand, to adapt to ever-changing technologies and persistent innovations that keep us at the forefront of this great industry.

It is that fundamental knowledge and training that assures uncompromising performance; giving our years of dedicated research and development a key role in the greatest motion picture experiences of all time.”

Hideaki Onishi, President, USHIO Europe B.V.

We are the eminent luminary in multiple fields, thanks to our unique lamp technologies. Behind each USHIO product stands countless hours of work and quality controls that ensure a perfect result every time.

In our research laboratories, we have committed our various analytical tools to ensuring that every product we assemble operates to our meticulous standards. We carefully investigate materials for the development of our light sources, and have implemented unique simulation technologies that calculate, for example, the flow of gas within the bulbs, or that optimise the spatial propagation of light.

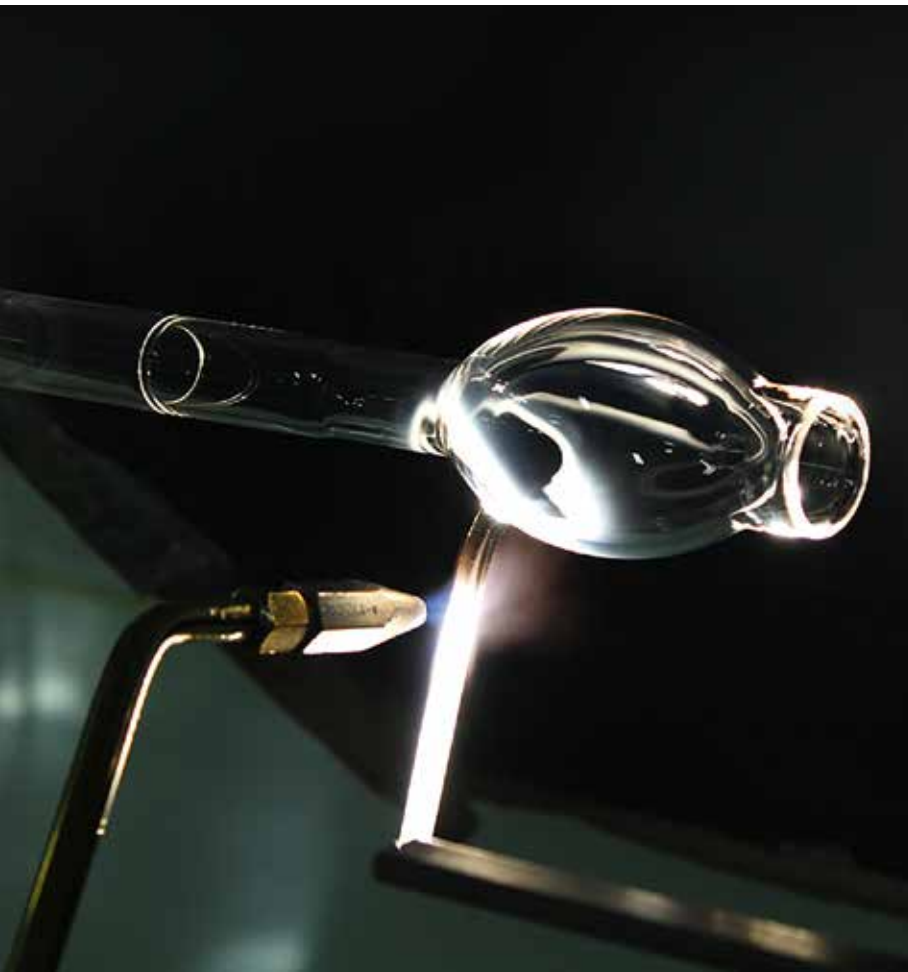
We emphasise the importance of precision & craftsmanship, therefore countless production processes are carried out by hand. This allows us to guarantee the best quality goods through our commitment to excellence and attention to detail.

Our goal is to produce impeccable lamps and to improve their quality time and again, so that they are continuously pushing the limits to make innovative breakthroughs. Each and every completed product leaves our site only after it measures up to USHIO standards: the technological peak of quality and efficiency.

Our quality management system vets our 8,765 products and services to meet the extremely high expectations of our customers. This, along with our continuous improvement of our manufacturing processes, earned USHIO the first ISO 9001 certification in the world, for a member of the xenon bulb manufacturing industry.

We also strive for excellence in environmental terms. In adherence with ISO 14001, our environmental management is compelled by sustainability and a duty to enhance environmental awareness.

Defining Industry Standards by adapting to your needs



USHIO's bulbs are handmade for a superior screening experience


With USHIO you always have a choice; from the conventional short arc xenon lamp for 35 mm film projection, to the digital xenon short arc lamp, or our latest digital breakthrough, the LU-series.

We bring each unique solution to the client

Our lamps are tested, approved and certified by every major projector manufacturer such as BARCO, CHRISTIE, NEC and SONY. Since top manufacturers already rely on USHIO's guaranteed quality, you can as well.

No matter whether you need to make the lamp budget for your traditional single screen last as long as possible; or perhaps you need the brightest image available for every one of your 25 screens, USHIO has the solution to your every needs.

We are the elite that leads the crowd; with pride we ask you to join us and strive for sustainable cinema.

 The future lies in the range of long-life xenon short arc lamps for digital projectors, because they achieve high, life-long DCI compliant brightness.

“We have been buying USHIO lamps for several years now. The great quality is not only a source of satisfaction to us but also to our visitors, who enjoy every film thanks to USHIO’s innovative lighting technologies. We also love the individual service USHIO offers because it helps us find the perfect lamps for each projector.”

Thomas Hult, Operator, Winberg Kino, Nyköping, Sweden.

The Svenska Bio has 150 screens in 37 cinemas in Sweden. Svenska Bio Group also has screens in Finland and Denmark, and is one of the biggest players in the Scandinavian cinema market and still expanding.



Our lamps do not need to remain switched on between film screenings. When experiencing breaks of 8 minutes or more, you can safely turn off the lamp. This not only saves power and operating hours, but also prolongs the lifetime of the lamp. Our uncompromising performance coupled with our bulbs unprecedented reliability makes USHIO xenon short arc lamps the first choice for cinema owners across the entire world.



USHIO offers widest range of xenon lamps for cinema projection

“Premium technology and high-quality equipment are essential to offer our visitors the best cinema experience. I have been working at JT for 24 years now and USHIO is the best partner in lamps and services we have ever had. We especially value the broad product range and the reliability. Delivery of every product is fast and whenever there is a problem, USHIO knows how to solve it.”

Bert Willemse, Technical Manager, VUE Netherlands.

VUE Netherlands is one of the largest cinema chains in the Netherlands. It currently provides 21 cinemas in 21 cities, with a total of 112 screens that boast an impressive 20,819 seats.

Cinema Lamps

DXL

DXL lamps are the pinnacle of digital projector brightness technology. As the clarity of image achieved by filmmakers increases by the day, you need a level of luminescence that can project a flawless image on to the screen every time. This series of lamps played a key part in the official world record for brightest digital cinema projector, when the DXL-70BA enabled a BARCO projector to achieve an impressive 43,000 lumens on to a 4m² screen.

DXL/L

The L-series ensures you the best quality without compromise boasting an extended lifetime of up to twice as long as that of a standard DXL bulb. Every DXL model can be exchanged for a long life DXL/L model and are delivered only after rigorous testing and authentication by the world's greatest digital projector manufacturers, such as BARCO, NEC and SONY. The best choice when low operating costs and low maintenance are required. These lamps can be identified by the "L" at the end of the type designation.

DXL/LU

The new kid on the block, the LUMINITY series, offers up to 500 additional warranty hours over their L-series equivalent. These lamps usher in a new era of unprecedented quality and profitability for cinema owners, as they minimise lamp replacements while sustaining a high level of brightness and significantly prolonged lumen maintenance. These lamps can be identified by the "LU" at the end of the type designation.

UXL

UXL lamps are designed to preserve the glory of 35mm film projection. For cinemas who wish to remain true to the traditions of the silver screen, there can be no other choice than the UXL series. Due to their unprecedented durability and reliability, these analogue xenon lamps are a constant light source, available in power ratings from 500W to 10,000W.

UXL-H

The high-efficiency lamps are the perfect choice for your film projector, offering either an average of 50% longer warranty period or 30% more lumens, compared with conventional xenon lamps. The most versatile film projector lamp series ever produced proves that you don't have to go digital to benefit from our technological advances. These lamps can be identified by the "H" at the end of the type designation.

DXL Series lamps for digital projectors

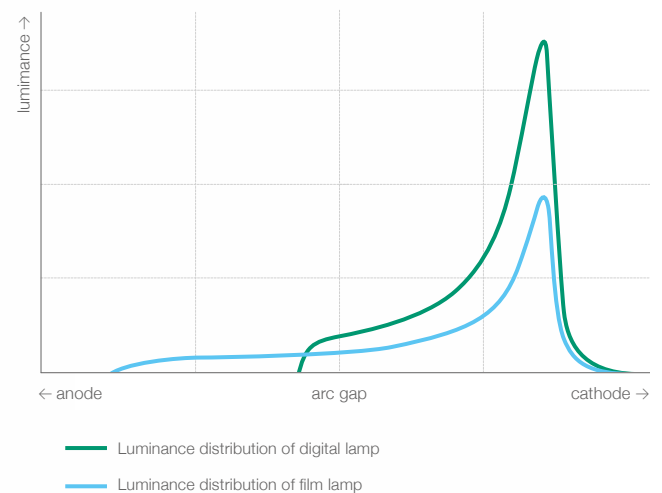


Every USHIO lamp is
certified for use by major
projector manufacturers



Our best-selling series of digital projector lamps remains the DXL series. The use of the correct DXL lamp guarantees DCI compliant brightness on the screen. By ensuring compliance, the motion pictures you screen are shown with natural colours and vivid contrast, and audiences receive the best possible image. We, of course, guarantee durability and reliability for the DXL, as well as the UXL series, to ensure continued enjoyment during the operational lifetime of these digital lamps.

Digital Cinema Lamps Are Brighter



Due to the production of shorter arcs, the DXL xenon lamps deliver more light into the optical system of the projector, producing a higher lumen count on the screen, while using the same electrical power input. A higher lumen output goes a long way towards creating the clear and crisp image every cinema entrepreneur wants to provide to their audience.

DXL/L Series lamps for digital projectors



L · S E R I E S



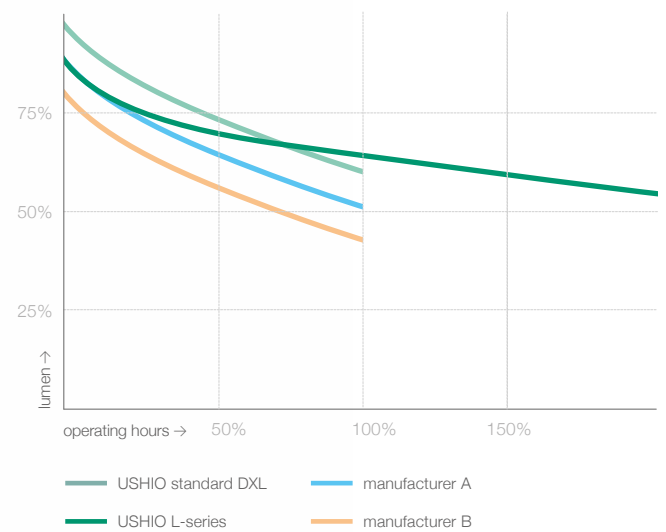


Our successful DXL range has been upgraded with increased longevity, thanks to the research and development team at USHIO who have conceived the long-life, DXL/L-series. These lamps have, on average, a 15% to 100% longer operational lifetime, when compared to their equivalent standard DXL lamp.

For the discerning cinema entrepreneur, that means reduced lamp replacements and, therefore, lower operating costs for your cinema. For us, the future is long-life lamps, so you can expect future additions to the L-series. These lamps can be identified by the “L” at the end of their lamp type designation.

Benefit from 15% to 100% longer life, depending on the type of lamp when compared to standard DXL

Longer Lifetime, Bigger Savings



USHIO’s standard DXL lamps offer maximum brightness with a competitive warranty coverage, while the DXL/L-Series can guarantee a longer lifetime coupled with excellent lumen maintenance.

DXL/LU Series lamps for digital projectors





Brightness, longevity, and lumen maintenance should be your main considerations taken into account when purchasing a new digital cinema projector lamp. Of course, what is the point in ultra-high definition Hollywood spectacles if you cannot bask in the glory of every single pixel? Unfortunately, the brightness of a lamp decreases over time, especially with extremely high powered lights such as projector lamps. USHIO took their decades of experience back into the lab, and emerged victorious with the DXL/LU series, also known as LUMINITY.

It is no small achievement to say that LUMINITY is proud to have secured the longest warranty period in their sector of the digital cinema projector lamp market. However, it also appears that this technological improvement to the xenon world will breathe new life into this traditional projection method, flying in the face of emerging alternatives. As digital cinema owners worldwide can expect to benefit from a decrease in servicing frequency, this latest USHIO innovation eliminates the need to upgrade to a new projection system, by instead upgrading the profitability of your cinema.

The technological breakthrough that USHIO has made means existing xenon technology has now been upgraded. The LUMINITY project shows outstanding promise, as it offers cinema a return to prosperous times through a high initial brightness that is backed up by a significantly reduced lumen decline over time.

The DXL/LU series is a true superhero amongst cinema lamps. Endurance no longer sacrifices luminescence, instead, it guarantees LUMINITY and a bright future for xenon cinema.

LUMINITY, a contraction of 'lumen' and 'infinity', radiates quality long after other lamps fail completely

Lineup for BARCO Projectors

Model	Rated Input power W	Rated Voltage V	Rated Current A	Operating Current Range W/A	Cold Arc Gap mm	Warranty* hours
DXL-8BAF	800	18	45	560 - 800 (W)	5.5	2400
DXL-9BAF	850	18.5	46	850 (W)	3.5	3000
DXL-12BAF	1200	20	60	800 - 1200 (W)	4.5	3500 (3000**)
DXL-16BAF	1600	21.5	75	1120 - 1600 (W)	3.5	3000
DXL-20BAF2	2000	23.5	85	60 - 90 (A)	4.1	2400
DXL-22BAF	2200	26.5	83	1540 - 2200 (W)	4.0	1500
DXL-30BA	3000	26	115	90 - 120 (A)	5.5	1900 (1500**)
DXL-30BAF	2800	28	100	94 - 107 (A)	4.5	1500
DXL-40BAF	4200	35	120	95 - 127 (A)	6	1000
DXL-45BA	4500	31.5	145	95 - 155 (A)	6	1300 (1000**)
DXL-60BA2	6000	37.5	160	110 - 170 (A)	8	800 (600**)
DXL-65BA	6500	39.5	165	110 - 178 (A)	8	500
DXL-65BA2	6500	39.5	165	110 - 178 (A)	8	600
DXL-65BA3	6500	39.4	165	114 - 184 (A)	8	700
DXL-70BA	7000	40±3	175	4900 - 7000 (W)	7.4	300
DXL-20BAF/L	2000	25	80	1400 - 2000 (W)	4.5	3200
DXL-30BA/L	3000	26	115	2100 - 3000 (W)	5.5	1900
DXL-30BAF/L	2800	30	93	1960 - 2800 (W)	5	1700
DXL-40BAF/L	4200	33.5	125	2940 - 4200 (W)	6	1400
DXL-45BA/L	4500	31.5	145	3150 - 4500 (W)	6	1300
DXL-60BA2/L	6000	39	155	4200 - 6000 (W)	8	800
DXL-30BAF/LU	3000	29.4	102	64 - 110 (A)	5	2200
DXL-40BAF/LU	4200	31.6	133	2940 - 4200 (W)	6	1900
DXL-65BA/L(U)	6500	39.4	165	114 - 184 (A)	8	900

*Warranty only given when lamp is used at nominal power or less.

**The mentioned warranty hours are in case of all problems except for the ones with **, then the first number is for "ignition & burst" and the number in brackets is in case of "other failures".

Cross reference

BARCO Projectors	DP2K-8S(x) DP2K-10S(x)	DP2K-12C	DP2K-15C DP2K-19B DP2K-20C	DP2K-23B DP4K-23B	DP2K-32B DP4K-32B	DP1500 DP2000
Lamp types	DXL-8BAF DXL-9BAF DXL-12BAF DXL-16BAF DXL-20BAF2 DXL-20BAF/L DXL-22BAF	DXL-8BAF DXL-12BAF DXL-20BAF2 DXL-20BAF/L	DXL-8BAF DXL-9BAF DXL-12BAF DXL-20BAF2 DXL-20BAF/L DXL-30BAF DXL-30BAF/L DXL-30BAF/LU DXL-40BAF DXL-40BAF/L DXL-40BAF/LU DXL-40BAF/L	DXL-12BAF DXL-20BAF2 DXL-20BAF/L DXL-30BAF/L DXL-30BAF/LU DXL-40BAF DXL-40BAF/L DXL-40BAF/LU	DXL-30BA DXL-30BA/L DXL-30BAF DXL-30BAF/L DXL-30BAF/LU DXL-45BA DXL-45BA/L DXL-60BA2 DXL-60BA2/L DXL-65BA DXL-65BA/L(U) DXL-65BA2 DXL-65BA3 DXL-70BA	DXL-30BAF/LU

Lineup for NEC Projectors

*Warranty only given when lamp is used at nominal power or less.

**Based on the use of 4 kw lamp power supply unit.

***Based on the use of 7 kw lamp power supply unit.

****Projector model NC1500C is discontinued.

Model	Rated Input Power W	Rated Voltage V	Rated Current A	Operating Current Range W	Cold Arc Gap mm	Warranty* hours
DXL-12SN	1200	20	60	840 - 1200	4.5	3000
DXL-12SN2	1200	20	60	840 - 1200	4.5	3000
DXL-15SN	1500	22	68	1050 - 1500	3.5	3000
DXL-15SN2	1500	22	68	1050 - 1500	3.5	3000
DXL-20SN3	2000	26	75	1400 - 2000	4	2400
DXL-21SN3	2000	26	75	1400 - 2000	4	2400
DXL-30SN	3000	30	100	2100 - 3000	5.4	1500
DXL-30SN2	3000	28.5	105	2100 - 3000	5.4	1200
DXL-31SN2	3000	28.5	105	2100 - 3000	5.4	1200
DXL-40SN	4000	32	125	2800 - 4000	5	650
DXL-40SCN	4000	29	135	2800 - 4000	7	1500
DXL-40SN2	4000	32	125	2800 - 4000	6	1000
DXL-41SN	4000	32	125	2800 - 4000	5	650
DXL-41SCN	4000	29	135	2800 - 4000	7	1500
DXL-41SN2	4000	32	125	2800 - 4000	6	1000
DXL-45SN	4500	31.5	145	3150 - 4500	6	1000
DXL-60SN	6000	39	155	4200 - 6000	8	600
DXL-70SN	7000	40	175	4900 - 7000	7.4	300
DXL-30SN2/L	3000	30	100	2100 - 3000	5.4	1800
DXL-31SN2/L	3000	30	100	2100 - 3000	5.4	1800
DXL-40SN/L	4000	33	120	2800 - 4000	5.3	850
DXL-41SN/L	4000	33	120	2800 - 4000	5.3	850
DXL-45SN/L	4500	31.5	145	3150 - 4500	6	1200
DXL-60SN/L	6000	39	155	4200 - 6000	8	800
DXL-60SN/LU	6000	39	155	4200 - 6000	8	1000

L-series

LU-series

Cross reference

NEC Projectors	NC1200C	NC1200C NC2000C	NC2500C** NC3200C** NC3240C**	NC2500C*** NC3200C*** NC3240C***	NC1500C****
Lamp types	DXL-12SN DXL-15SN DXL-20SN3	DXL-12SN DXL-15SN DXL-20SN3 DXL-30SN2 DXL-30SN2/L DXL-40SN DXL-40SCN DXL-40SN2 DXL-40SN/L	DXL-12SN2 DXL-15SN2 DXL-21SN3 DXL-31SN2 DXL-31SN2/L DXL-41SN DXL-41SCN DXL-41SN2 DXL-41SN/L DXL-41SN2 DXL-41SN/L	DXL-21SN3 DXL-31SN2 DXL-31SN2/L DXL-41SN DXL-41SCN DXL-41SN2 DXL-45SN DXL-45SN/L DXL-60SN DXL-60SN/L DXL-60SN/LU DXL-70SN	DXL-30SN

Lineup for SONY Projectors

*Warranty only given when lamp is used at nominal power or less.

**The mentioned warranty hours are in case of all problems except for the ones with **, then the first number is for "ignition & burst" and the number in brackets is in case of "other failures".

***Average lifetime and warranty hours depend on your projector model.
750 h: based on the use of "SRX-R320" (input power: 4000 W);
650 h: based on the use of „SRX-R220“ (input power: 4200 W).

Model	Rated Input Power W	Rated Voltage V	Operating Current Range W	Cold Arc Gap mm	Warranty* hours
DXL-20SRX	2 000	25.5	1 260 - 2 000	4.5	3 000 (2 400**)
DXL-30SRX	3 000	30	1 890 - 3 000	4.5	1 000
DXL-40SRX	4 200	31	2 650 - 4 200	4.5	700
DXL-20SRX/L	2 000	25	1 260 - 2 000	4.5	3 500
DXL-30SRX/L	3 000	31	1 500 - 3 000	5	1 800
DXL-40SRX/L	4 000 - 4 200	31 - 32	2 650 - 4 200	5	650/750*** (325**)/(375**)
DXL-40SRX/LL	4 000	34	2 100 - 4 000	6	1 000

Cross reference

SONY Projectors	SRX-R220	SRX-R320
Lamp types	DXL-20SRX DXL-30SRX DXL-40SRX DXL-20SRX/L DXL-30SRX/L DXL-40SRX/L DXL-40SRX/LL	DXL-20SRX DXL-30SRX DXL-40SRX DXL-20SRX/L DXL-30SRX/L DXL-40SRX/L DXL-40SRX/LL

Lineup for Cinemeccanica & Kinton

Model	Rated Input Power W	Rated Voltage V	Operating Current Range W	Cold Arc Gap mm	Warranty* hours
DXL-65SC	6 500	39.5	110 - 178 (A)	8	500
DXL-70SCH	7 000	40	4 900 - 7 000 (W)	7.4	300



USHIO provide first-class lamps for first-class projectors

UXL Series

lamps for
film projectors





The bright white light from a xenon short arc lamp strikes a strong resemblance to daylight

Our UXL xenon short arc lamps are high-intensity point light sources, i.e. their light spreads out from a single point. The bright white light from a xenon short arc lamp strikes a strong resemblance to daylight, so the lamp is particularly suitable for commercial film projectors.

UXL-H series: These high efficiency lamps offer the best choice money can buy, either take advantage of an average 50% warranty extension or take 30% stronger lumen output. The UXL-H series lamps can be identified by the “H” at the end of their lamp type designation.

The legendary UXL series do not find themselves restricted to cinematic brilliance either, thanks to their radiant light, our xenon bulbs, are used for high powered special lighting effects, such as in sky trackers.

The European Space Agency (ESA) and Japan Aerospace Exploration Agency (JAXA) made use of USHIO's UXL lamps during the research and development phase of the BepiColombo Mercury Planetary Orbiter. BepiColombo began its mission to the least explored planet in the solar system, on 20 August 2018.

At the European Space Research and Technology Centre (ESTEC) facility in Noordwijk, the Netherlands, USHIO designed an array of UXL lamps to simulate conditions 91.7 million kilometers closer to the sun than Earth. This enabled the ESA-managed project to test the radiation resistance of their Mercury Planetary Orbiter (MPO) and the Mercury Magnetospheric Orbiter (MMO), which must endure temperatures in excess of 350°C if they are to complete their mission.

Lineup for UXL lamp

*Warranty only given when lamp is used at nominal power or less.

Model	Rated Input Power W	Rated Voltage V	Rated Current A	Operating Current Range A	Cold Arc Gap mm	Warranty* (Eco Mode) hours
UXL-10SB	1000	20	50	30 - 55	4.2	2000
UXL-10SCB	1000	20	50	30 - 55	4.2	2000
UXL-10SCBH	1000	20	50	48 - 55	3.5	2000 (3000)
UXL-16SB	1430	22	65	45 - 70	4	2000
UXL-16SCB	1430	22	65	45 - 70	4	2000
UXL-16SCBH	1500	23	65	45 - 70	3.6	2000 (3000)
UXL-1600-O	1600	24	65	45 - 75	5.5	2000
UXL-20SC	2000	25	80	50 - 85	6	2400
UXL-20SCH	2000	25	80	70 - 85	4.4	2400 (3500)
UXL-2000HR	2000	29	70	50 - 85	6	2400
UXL-2000HRH	2000	25	80	64 - 85	4.5	2400 (3500)
UXL-21SCB	2000	28	70	45 - 70	6	2400
UXL-21SCBH	2000	28	70	45 - 70	5.5	2400 (3000)
UXL-2003HKL-O	1750	25	70	56 - 80	6	2400
UXL-25SC	2500	28	90	70 - 100	6	1500
UXL-25SCH	2500	28	90	70 - 100	4.9	1500 (2200)
UXL-2500-O	2500	30	83	60 - 95	7	1500
UXL-30SC	3000	30	100	60 - 110	6	1500
UXL-30SCH	3000	30	100	60 - 110	5.4	1500 (2200)
UXL-3000HR	3000	26	100	60 - 100	7	1500
UXL-3000HRH	3000	27	110	88 - 120	5.5	1500 (2200)
UXL-3000HK-O	2500	27	90	70 - 110	7	1500
UXL-3600HN	3360	28	120	85 - 120	7	1200
UXL-3601HK-O	3360	28	120	85 - 120	7	1200
UXL-4000K-O	4000	33	120	60 - 140	8	1200
UXL-40SC	4000	29	135	80 - 150	7	1200
UXL-40SCH	4000	29	135	80 - 150	6.4	1000 (1500)
UXL-50SC	5000	35	140	100 - 150	8	1000

Model	Rated Input Power W	Rated Voltage V	Rated Current A	Operating Current Range A	Cold Arc Gap mm	Warranty* (Eco Mode) hours
UXL-50SCH	5000	35	140	124 - 150	7	1 000 (1 500)
UXL-5000HN	4200	30	140	100 - 140	8	1 000
UXL-5000H	4200	30	140	100 - 140	8	1 000
UXL-5000HR	5000	35	140	100 - 150	8	1 000
UXL-5000HRH	5000	35	140	100 - 150	7	1 000 (1 500)
UXL-60SC	6000	37	160	120 - 170	9	600
UXL-60SCH	6000	39	155	149 - 165	8	500 (750)
UXL-6000HK-O	4960	32	155	100 - 160	8	600
UXL-70SC	7000	43	160	120 - 170	11	500
UXL-70SCH	7000	43	160	120 - 170	10	500 (650)

*Warranty only given when lamp is used at nominal power or less.

USHIO has earned international recognition by developing products that integrate innovative lighting technologies and designs to enhance the businesses of clients across a wide range of fields. We will continue to be the first responders for life-defining industries from cinema projection, office automation & semiconductors to space travel, biotechnology & medicine. Our dedication to lighting has fostered a philosophy that regards product quality as the sole overriding priority.

Do you have any questions, need help with a bulb installation, or just want to find out more about our products? Then feel free to contact us: we offer our services throughout the world.

Worldwide USHIO has:

5.886 employees

57 branch offices

17 production sites

An annual turnover
of **€1.5 billion**



USHIO America INC.

USHIO around the world



USHIO Europe B.V.

USHIO Korea, INC.

USHIO Shanghai, INC.

USHIO Taiwan, INC.

USHIO, INC.

USHIO Asia Pacific PTE, LTD.

USHIO Hong Kong, LTD.

Bring light to life with USHIO

USHIO listens to your ideas and optimises your requirements, before developing a unique solution by your side. Our steadfast commitment to craftsmanship and innovation presents you with the opportunity to bring new life to your business.

USHIO

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