

USHIO

Xenon Lamps

for Cinema Projectors



We love light

From our foundation in 1964 we have gained global recognition through unique innovation in lamps. From halogen to Xenon lamps, we manufacture products that are always on the cutting edge of technology. This makes us the world leader in specialty lamps.

We place a special focus on the development of lamps for cinema projectors. We were the first manufacturer worldwide to make Xenon short arc lamps specifically for use in cinemas. Cinema operators quickly realised that we deliver the best technology.

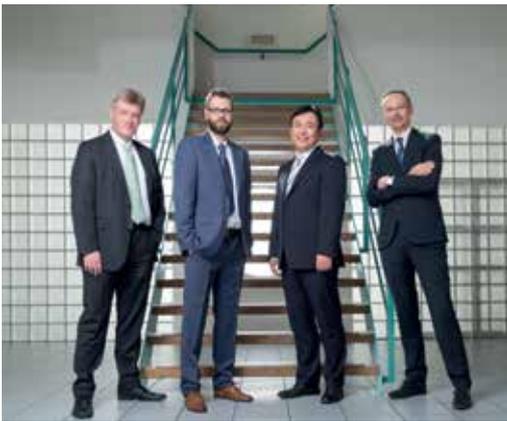
More than half of all cinemas around the world already use our high-quality lamps. It makes no difference whether our customers require USHIO lamps for just one screen or for an entire multiplex cinema chain. We offer the largest range of cinema lamps and therefore tailor-made solutions for every cinema size and almost all projector types.

Our company is certified for quality without compromise. You can always rely on our lamps, which are largely hand-produced. Be it the UXL, DXL or L-series, whether 35 mm or digital, you can always find the ideal lamp in the extensive USHIO product range.



Final visual check of quality at Ushio.

There is more to it than what you think



“All of our employees in production first undergo rigorous training that prepares them for the intricacies of dealing with glass and sophisticated technology. Thereby we guarantee our production staff have a thorough knowledge to ensure that the products are as they should be: uncompromising performance.”

Hiroshi Matsubara, CEO USHIO Europe B.V.

It is no coincidence that we are the world leader with our different lamp technologies; behind every single USHIO product stand countless hours of work and quality controls which ensure that the result is perfect.

In our research laboratories we use various analytical equipment to check that every product operates efficiently. We investigate different materials for the development of our light sources and have unique simulation technologies that calculate, for example, the flow of gas within the bulbs or optimise the spatial propagation of light.

We place great emphasis on precision and therefore many production processes are done by hand. Because of this we can guarantee the best quality goods and pay attention to every little detail.

The result of this production process: first-class lamps.

That is exactly our goal: to produce impeccable lamps and to improve their quality time and again, so that they are ground-breaking innovations. Each product leaves our site only if it measures up to what USHIO stands for: 100% quality and 100% efficiency.

Excellence. Our quality management system supplies products and services to meet the high expectations of our customers. This, along with the continuous improvement of quality management, earned USHIO the world-first ISO 9001 certification for a manufacturer of Xenon bulbs. We also strive for excellence in environmental terms! As illustrated by the ISO 14001, our environmental management is characterised by sustainability and environmental awareness.

Material analysis in the USHIO research lab.



“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. We feel that we are in very good hands and we are looking forward to many more successful years together.”

Bert Willemse, Technical Manager, VUE Netherlands.

VUE Netherlands is one of the largest cinema chains in the Netherlands. It currently exploits 21 cinemas in 21 cities, with a total of 112 screens providing 20.819 seats.

The right lamp with the best quality



With USHIO you have a choice; from the conventional short arc Xenon lamp for 35mm film projection to the digital Xenon short arc lamp, or our new digital long-life L-series.

**We offer the best
solution for every need.**

Our lamps are tested, approved and certified by every major projector manufacturer such as: Barco, Christie, NEC and Sony. Manufacturers already rely on USHIO's brand quality: you can as well.



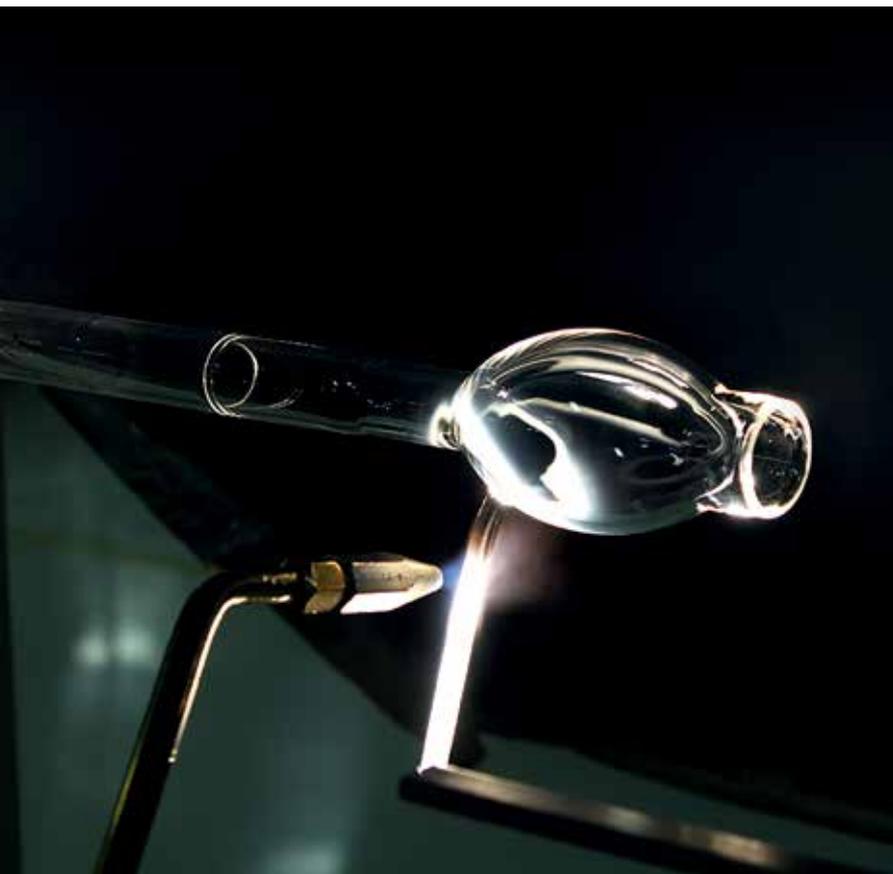
The future lies in the range of long-life Xenon short arc lamps for digital projectors, because they achieve high, life-long DCI compliant brightness.

USHIO offers widest range of Xenon lamps for cinema projection.

“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 cinemas in Finland and Denmark it is one of the biggest players in the Scandinavian cinema market and still expanding.



USHIO'S "hand-made" bulbs for premium screening experience.

 The lamps do not have to remain switched on between the films. With breaks of 8 minutes or more, turn off the lamp. This not only saves power and operating hours, but also prolongs the life of your USHIO lamp.

USHIO lamp types

DXL lamps

DXL lamps allow yet more brightness with digital projectors. We have even broken a world record with one of our DXL lamps: the DXL 70BA allowed a Barco projector to achieve an impressive 43 000 lumens on screen.

DXL lamps L-Series

The new L-series ensures you the best quality without compromise alongside a lifetime of up to twice as long as that of a standard DXL bulb. Every standard model can be replaced by these new models and comes approved by Barco, NEC and Sony for their digital projectors. The best choice when low operating costs and low maintenance are required. These lamps can be differentiated by the "L" at the end of the type designation.

UXL lamp

UXL lamps are excellently suited to film projectors. Due to their durability and reliability, the Xenon lamps are a constant light source, available in power ratings from 500W to 10 000W.

UXL High efficiency

The high-efficiency lamps are the perfect choice for your film projector: they offer either an average of 50 % longer warranty period or 30 % more lumens, compared with conventional Xenon lamps. These lamps can be differentiated by the "H" at the end of the type designation.

DXL lamp for digital projectors

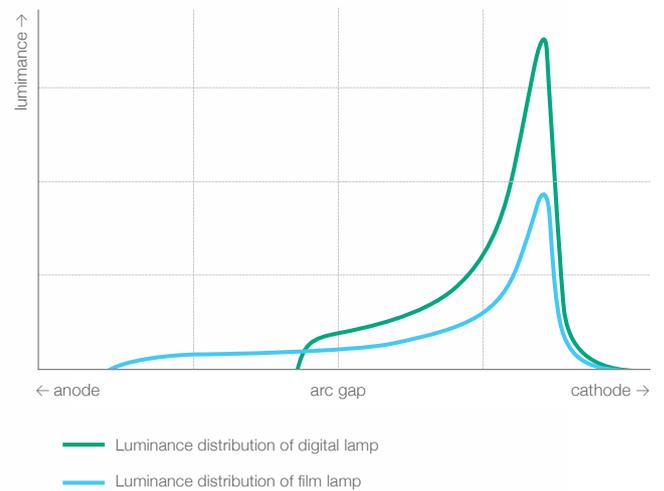


Only USHIO lamps are approved by all projector manufacturers.



The best-selling lamps for digital projectors are our DXL series. The use of the right DXL lamp guarantees DCI compliant brightness on the screen. In this way, films are shown with natural colours and vivid contrast. We of course guarantee a high resistance and reliability for the DXL, as well as the UXL series, to ensure continued enjoyment of these digital lamps.

High brightness in digital cinema lamps



Due to its shorter arcs DXL lamps direct more light into the optical system of the projector giving more screen lumens while using the same electrical power input.

DXL lamp L-series



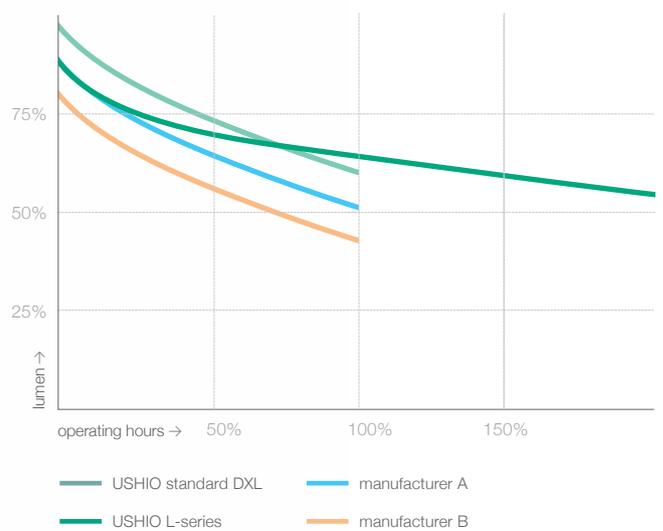
These new lamps have a 15% up to 100% longer life on average depending on the type of lamp compared to the standard DXL lamps.



Our successful DXL range is now even stronger: as we place great value in innovation and new technologies at USHIO, we have developed the long-life, short L-series. These new lamps have a 15% up to 100% longer life on average depending on the type of lamp compared to the standard DXL lamps.

For you, that means less frequent replacement of your lamps and therefore lower costs for your cinema. For us, the future is long-life lamps, so you can look forward to more types in the L-series. These lamps can be differentiated by the “L” at the end of the type designation.

Lumen per lifetime



USHIO standard DXL lamps offer highest brightness at competitive warranty lifetime, while the L-Series provides an even more extended lifetime with excellent light maintenance.

Lineup for Barco 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".

Model	Rated Input power W	Rated Voltage V	Rated Current A	Operating Current Range W/A	Cold Arc Gap mm	Warranty* hours	Average Lifetime hours	
DXL-8BAF	800	18	45	560 - 800 (W)	5.5	2400	3000	
DXL-9BAF	850	18.5	46	850 (W)	3.5	3000	3500	
DXL-12BAF	1200	20	60	800 - 1200 (W)	4.5	3500 (3000**)	3750	
DXL-16BAF	1600	21.5	75	1120 - 1600 (W)	3.5	3000	3250	
DXL-20BAF2	2000	23.5	85	60 - 90 (A)	4.1	2400	3000	
DXL-22BAF	2200	26.5	83	1540 - 2200 (W)	4.0	1500	2000	
DXL-30BA	3000	26	115	90 - 120 (A)	5.5	1900 (1500**)	3000	
DXL-30BAF	2800	28	100	94 - 107 (A)	4.5	1500	1750	
DXL-40BAF	4200	35	120	95 - 127 (A)	6	1000	1200	
DXL-45BA	4500	31.5	145	95 - 155 (A)	6	1300 (1000**)	1300	
DXL-60BA2	6000	37.5	160	110 - 170 (A)	8	800 (600**)	800	
DXL-65BA	6500	39.5	165	110 - 178 (A)	8	500	600	
DXL-65BA2	6500	39.5	165	110 - 178 (A)	8	600	650	
DXL-65BA3	6500	39.4	165	114 - 184 (A)	8	700	750	
DXL-70BA	7000	40±3	175	4900 - 7000 (W)	7.4	300	500	
L-series	DXL-20BAF/L	2000	25	80	1400 - 2000 (W)	4.5	3200	3500
	DXL-30BA/L	3000	26	115	2100 - 3000 (W)	5.5	1900	2250
	DXL-30BAF/L	2800	30	93	1960 - 2800 (W)	5	1700	1900
	DXL-40BAF/L	4200	33.5	125	2940 - 4200 (W)	6	1400	1500
	DXL-45BA/L	4500	31.5	145	3150 - 4500 (W)	6	1300	1500
	DXL-60BA2/L	6000	39	155	4200 - 6000 (W)	8	800	900

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
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-40BAF DXL-40BAF/L	DXL-12BAF DXL-20BAF2 DXL-20BAF/L DXL-30BAF DXL-30BAF/L DXL-40BAF DXL-40BAF/L	DXL-30BA DXL-30BA/L DXL-45BA DXL-45BA/L DXL-60BA2 DXL-60BA2/L DXL-65BA DXL-60BA2 DXL-65BA3 DXL-70BA

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	Average Lifetime hours
DXL-12SN	1200	20	60	840 - 1200	4.5	3000	3200
DXL-12SN2	1200	20	60	840 - 1200	4.5	3000	3200
DXL-15SN	1500	22	68	1050 - 1500	3.5	3000	3200
DXL-15SN2	1500	22	68	1050 - 1500	3.5	3000	3200
DXL-20SN3	2000	26	75	1400 - 2000	4	2400	3000
DXL-21SN3	2000	26	75	1400 - 2000	4	2400	3000
DXL-30SN	3000	30	100	2100 - 3000	5.4	1500	1750
DXL-30SN2	3000	28.5	105	2100 - 3000	5.4	1200	1500
DXL-31SN2	3000	28.5	105	2100 - 3000	5.4	1200	1500
DXL-40SN	4000	32	125	2800 - 4000	5	650	750
DXL-40SCN	4000	29	135	2800 - 4000	7	1500	1750
DXL-40SN2	4000	32	125	2800 - 4000	6	1000	1250
DXL-41SN	4000	32	125	2800 - 4000	5	650	700
DXL-41SCN	4000	29	135	2800 - 4000	7	1500	1750
DXL-41SN2	4000	32	125	2800 - 4000	6	1000	1250
DXL-45SN	4500	31.5	145	3150 - 4500	6	1000	1250
DXL-60SN	6000	39	155	4200 - 6000	8	600	1000
DXL-70SN	7000	40	175	4900 - 7000	7.4	300	500
DXL-30SN2/L	3000	30	100	2100 - 3000	5.4	1800	2000
DXL-31SN2/L	3000	30	100	2100 - 3000	5.4	1800	2000
DXL-40SN/L	4000	33	120	2800 - 4000	5.3	850	900
DXL-41SN/L	4000	33	120	2800 - 4000	5.3	850	900
DXL-45SN/L	4500	31.5	145	3150 - 4500	6	1200	1500
DXL-60SN/L	6000	39	155	4200 - 6000	8	800	1100

L-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-12SN2 DXL-15SN2 DXL-21SN3 DXL-30SN2 DXL-30SN2/L DXL-40SN DXL-40SCN DXL-40SN2 DXL-40SN/L	DXL-31SN2 DXL-31SN2/L DXL-41SN DXL-41SCN DXL-41SN2 DXL-41SN/L DXL-45SN DXL-45SN/L DXL-60SN DXL-60SN/L DXL-70SN	DXL-30SN

Lineup for Sony Projectors

Model	Rated Input Power W	Rated Voltage V	Operating Current Range W	Cold Arc Gap mm	Warranty* hours	Average Lifetime hours
DXL-20SRX	2 000	25.5	1 260 - 2 000	4.5	3 000 (2 400**)	3 000
DXL-30SRX	3 000	30	1 890 - 3 000	4.5	1 000	1 100
DXL-40SRX	4 200	31	2 650 - 4 200	4.5	700	850
DXL-20SRX/L	2 000	25	1 260 - 2 000	4.5	3 500	3 500
DXL-30SRX/L	3 000	31	1 500 - 3 000	5	1 800	1 800
DXL-40SRX/L	4 000 - 4 200	31 - 32	2 650 - 4 200	5	650/750*** (325**)/(375**)	700/800
DXL-40SRX/LL	4 000	34	2 100 - 4 000	6	1 000	1 100

*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).

L-series

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	Average Lifetime hours
DXL-65SC	6 500	39.5	110 - 178 (A)	8	500	650
DXL-70SCH	7 000	40	4 900 - 7 000 (W)	7.4	300	400



UXL lamp for film projectors





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 has a very strong resemblance to daylight, so the lamp is particularly suitable for commercial film projectors.

UXL lamps High efficiency: These lamps can be differentiated by the “H” at the end of the type designation.

By the way: thanks to their radiant light our Xenon bulbs, in addition to film and digital projectors, are used for special lighting effects, such as for a Sky Tracker.

Even the ESA (European Space Agency) uses our special lamps in research and development of the BepiColombo Mercury Planetary Orbiter, that is planning to start its mission to Mercury in August 2018.

The bright white light from a Xenon short arc lamp has a very strong resemblance to daylight.

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	Average Lifetime hours
UXL-10SB	1000	20	50	30 - 55	4.2	2000	3000
UXL-10SCB	1000	20	50	30 - 55	4.2	2000	3000
UXL-10SCBH	1000	20	50	48 - 55	3.5	2000 (3000)	3000 (3500)
UXL-16SB	1430	22	65	45 - 70	4	2000	3000
UXL-16SCB	1430	22	65	45 - 70	4	2000	3000
UXL-16SCBH	1500	23	65	45 - 70	3.6	2000 (3000)	3000 (3500)
UXL-1600-O	1600	24	65	45 - 75	5.5	2000	3000
UXL-20SC	2000	25	80	50 - 85	6	2400	3500
UXL-20SCH	2000	25	80	70 - 85	4.4	2400 (3500)	3500 (4000)
UXL-2000HR	2000	29	70	50 - 85	6	2400	3500
UXL-2000HRH	2000	25	80	64 - 85	4.5	2400 (3500)	3500 (4000)
UXL-21SCB	2000	28	70	45 - 70	6	2400	3500
UXL-21SCBH	2000	28	70	45 - 70	5.5	2400 (3000)	3500 (4000)
UXL-2003HKL-O	1750	25	70	56 - 80	6	2400	3500
UXL-25SC	2500	28	90	70 - 100	6	1500	2250
UXL-25SCH	2500	28	90	70 - 100	4.9	1500 (2200)	2250 (2750)
UXL-2500-O	2500	30	83	60 - 95	7	1500	2250
UXL-30SC	3000	30	100	60 - 110	6	1500	2250
UXL-30SCH	3000	30	100	60 - 110	5.4	1500 (2200)	2250 (2750)
UXL-3000HR	3000	26	100	60 - 100	7	1500	2250
UXL-3000HRH	3000	27	110	88 - 120	5.5	1500 (2200)	2250 (2750)
UXL-3000HK-O	2500	27	90	70 - 110	7	1500	2250
UXL-3600HN	3360	28	120	85 - 120	7	1200	1800
UXL-3601HK-O	3360	28	120	85 - 120	7	1200	1800
UXL-4000K-O	4000	33	120	60 - 140	8	1200	1800
UXL-40SC	4000	29	135	80 - 150	7	1200	1800
UXL-40SCH	4000	29	135	80 - 150	6.4	1000 (1500)	1500 (2250)
UXL-50SC	5000	35	140	100 - 150	8	1000	1500

Model	Rated Input Power W	Rated Voltage V	Rated Current A	Operating Current Range A	Cold Arc Gap mm	Warranty* (Eco Mode) hours	Average Lifetime hours
UXL-50SCH	5000	35	140	124 - 150	7	1 000 (1 500)	1 500 (2 250)
UXL-5000HN	4200	30	140	100 - 140	8	1 000	1 500
UXL-5000H	4200	30	140	100 - 140	8	1 000	1 500
UXL-5000HR	5000	35	140	100 - 150	8	1 000	1 500
UXL-5000HRH	5000	35	140	100 - 150	7	1 000 (1 500)	1 500 (2 250)
UXL-60SC	6000	37	160	120 - 170	9	600	800
UXL-60SCH	6000	39	155	149 - 165	8	500 (750)	750 (1 000)
UXL-6000HK-O	4960	32	155	100 - 160	8	600	800
UXL-70SC	7000	43	160	120 - 170	11	500	750
UXL-70SCH	7000	43	160	120 - 170	10	500 (650)	750 (850)

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

USHIO has earned its worldwide reputation by developing products that integrate state-of-the-art lighting technologies and designs with the specific application needs of industry-leading clients in a wide range of fields: from cinema projection, semiconductors and office automation to biotechnology or medicine. Our basic philosophy is to regard product quality as an overriding priority.

Do you need help with the installation, have questions or want to find out more about our products? Then feel free to contact us: we offer our service around 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 Asia Pacific PTE, LTD.

USHIO Hong Kong, LTD.

USHIO Shanghai, INC.

USHIO Taiwan, INC.

USHIO, INC.

USHIO Korea, INC.

Develop together with USHIO

USHIO is a partner that listens to your ideas and requirements. Let us optimize your processes according to your specifications and expectations. Use our expertise to develop a tailor-made solution together that matches your needs.



USHIO EUROPE B.V. - Headquarter

The Netherlands | Tel. +31 20 446 9333
info@ushio.eu | www.ushio.eu

USHIO DEUTSCHLAND GmbH

Germany | Tel. +49 8094 9054 0
info@ushio.eu | www.ushio.eu

USHIO U.K., Ltd.

United Kingdom | Tel. +44 1296 339988
info@ushio.eu | www.ushio.eu

USHIO FRANCE S.A.R.L.

France | Tel. +33 134 64 94 94
info@ushio.eu | www.ushio.eu