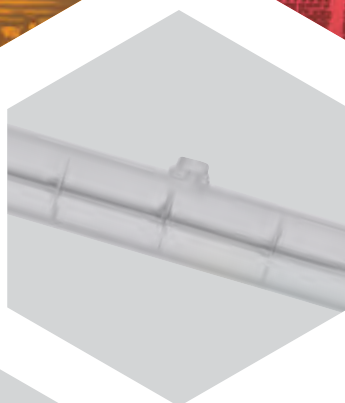
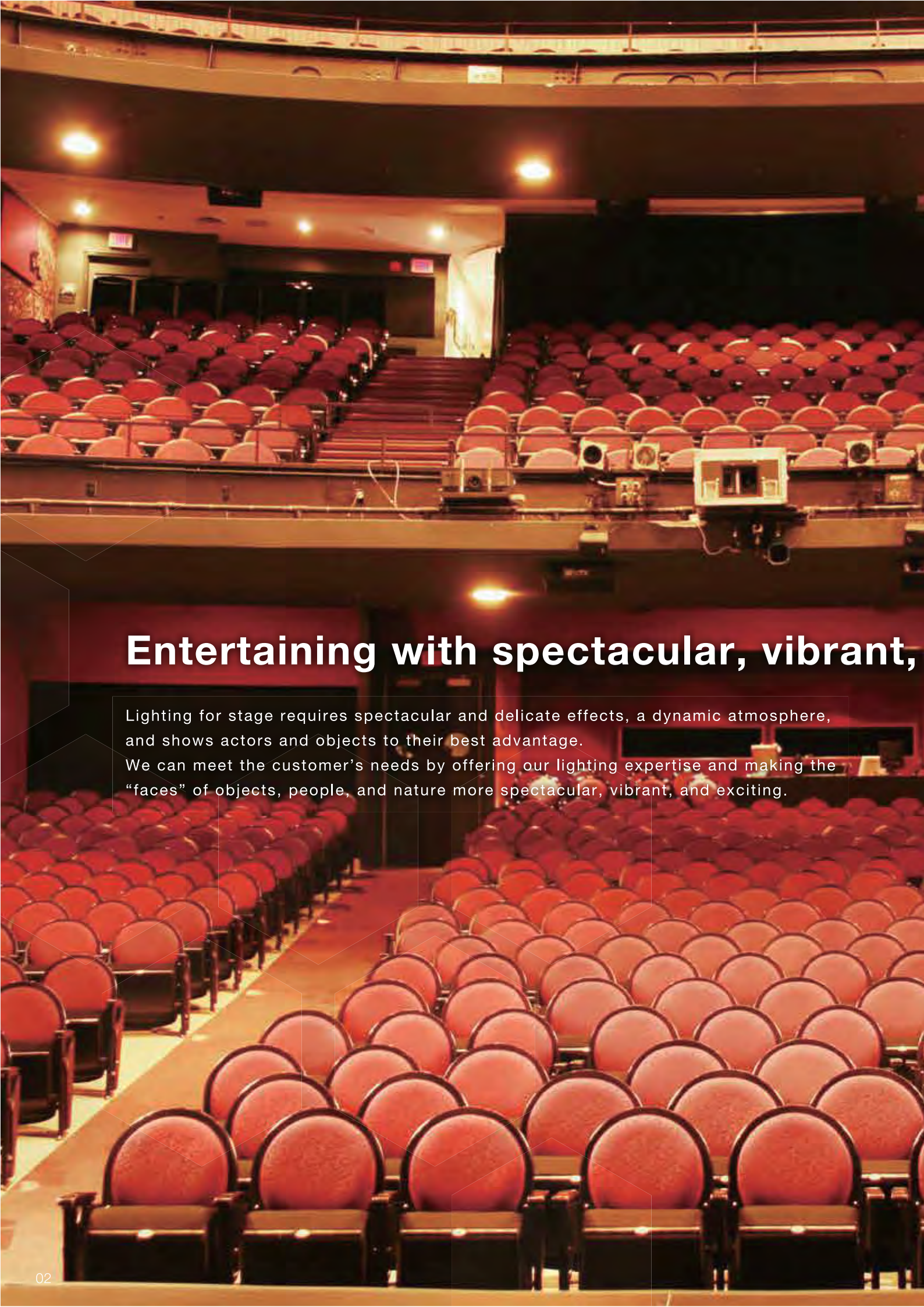


High performance light sources

# Halogen Lamps



A wide-angle photograph of a large, empty theater. The seats are a vibrant red color, arranged in rows that recede into the distance. The stage area is visible in the background, with various lighting fixtures and equipment mounted on the walls and ceiling. The lighting is warm and focused, creating a dramatic atmosphere.

# Entertaining with spectacular, vibrant,

Lighting for stage requires spectacular and delicate effects, a dynamic atmosphere, and shows actors and objects to their best advantage.

We can meet the customer's needs by offering our lighting expertise and making the "faces" of objects, people, and nature more spectacular, vibrant, and exciting.





and exciting light

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Halogen single ended quartz with compact filament

We have achieved near point-light source through dividing the filament into 4-segments and 6-segments, and arranged them in a 3-dimensional position. Through combination with fixture, save 40-50% electricity.

Heat sink allowed the possibility of its application towards realizing high-power light source and long life.

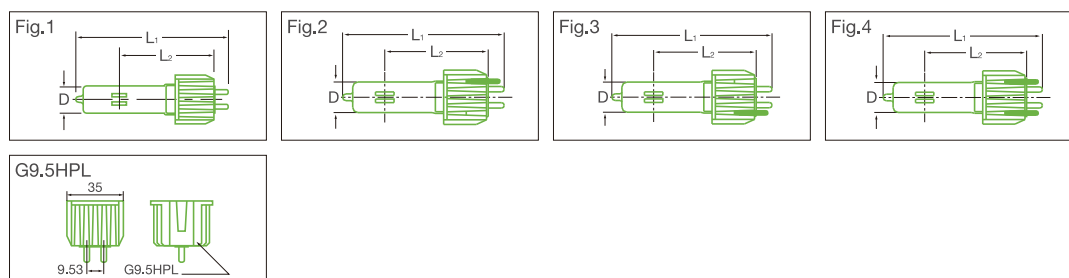
Metal allowed bases tend to degrade in insulation resistance properties over the life of the lamp.

The new ceramic heat sink base maintains it's resistance to electric conductivity over the life of the lamp.



| Type           | Voltage<br>(V) | Wattage<br>(W) | App. luminus<br>(lm) | Color temp.<br>(K) | Rated life<br>(h) | Dimensions  |             |                | Filament<br>type | Base<br>type | Fig. | Note |
|----------------|----------------|----------------|----------------------|--------------------|-------------------|-------------|-------------|----------------|------------------|--------------|------|------|
|                |                |                |                      |                    |                   | MOL (L1:mm) | LCL (L2:mm) | Dia Max.(D:mm) |                  |              |      |      |
| HPL77V-550WC   | 77             | 550            | 16,170               | 3,250              | 300               | 104         | 60.3        | 19             | 4-C8             | G9.5HPL      | 3    |      |
| HPL77V-550WX   | 77             | 550            | 12,160               | 3,050              | 2000              | 104         | 60.3        | 19             | 4-C8             | G9.5HPL      | 3    |      |
| HPL77V-750WC   | 77             | 750            | 22,950               | 3,250              | 300               | 104         | 60.3        | 19             | 4-C8             | G9.5HPL      | 4    |      |
| HPL115V-375WC  | 115            | 375            | 10,540               | 3,250              | 300               | 104         | 60.3        | 19             | 4-C8             | G9.5HPL      | 1    |      |
| HPL115V-375WX  | 115            | 375            | 8,500                | 3,050              | 1000              | 104         | 60.3        | 19             | 4-C8             | G9.5HPL      | 1    |      |
| HPL115V-575WC  | 115            | 575            | 16,520               | 3,250              | 300               | 104         | 60.3        | 19             | 4-C8             | G9.5HPL      | 1    |      |
| HPL115V-575WX  | 115            | 575            | 12,360               | 3,050              | 2000              | 104         | 60.3        | 19             | 4-C8             | G9.5HPL      | 1    |      |
| HPL115V-750WC  | 115            | 750            | 21,900               | 3,250              | 300               | 104         | 60.3        | 19             | 4-C8             | G9.5HPL      | 2    |      |
| HPL115V-750WX  | 115            | 750            | 16,400               | 3,050              | 1000              | 104         | 60.3        | 19             | 4-C8             | G9.5HPL      | 2    |      |
| HPL120V-575WC  | 120            | 575            | 16,520               | 3,250              | 300               | 104         | 60.3        | 19             | 4-C8             | G9.5HPL      | 1    |      |
| HPL120V-575WX  | 120            | 575            | 12,360               | 3,050              | 2000              | 104         | 60.3        | 19             | 4-C8             | G9.5HPL      | 1    |      |
| HPL120V-750WC  | 120            | 750            | 21,900               | 3,250              | 300               | 104         | 60.3        | 19             | 4-C8             | G9.5HPL      | 2    |      |
| HPL120V-750WX  | 120            | 750            | 16,400               | 3,050              | 1500              | 104         | 60.3        | 19             | 4-C8             | G9.5HPL      | 2    |      |
| HPL230V-375WXN | 230            | 375            | 7,250                | 3,000              | 1000              | 104         | 60.3        | 19             | 6-C8             | G9.5HPL      | 1    |      |
| HPL230V-575WCN | 230            | 575            | 14,900               | 3,200              | 400               | 104         | 60.3        | 19             | 6-C8             | G9.5HPL      | 1    |      |
| HPL230V-575WXN | 230            | 575            | 11,780               | 3,050              | 1500              | 104         | 60.3        | 19             | 6-C8             | G9.5HPL      | 1    |      |
| HPL230V-750WCN | 230            | 750            | 19,750               | 3,200              | 300               | 104         | 60.3        | 19             | 6-C8             | G9.5HPL      | 2    |      |
| HPL230V-750WXN | 230            | 750            | 15,600               | 3,050              | 1500              | 104         | 60.3        | 19             | 6-C8             | G9.5HPL      | 2    |      |
| HPL240V-375WXN | 240            | 375            | 7,250                | 3,000              | 1000              | 104         | 60.3        | 19             | 6-C8             | G9.5HPL      | 1    |      |
| HPL240V-575WCN | 240            | 575            | 14,900               | 3,200              | 400               | 104         | 60.3        | 19             | 6-C8             | G9.5HPL      | 1    |      |
| HPL240V-575WXN | 240            | 575            | 11,780               | 3,050              | 1500              | 104         | 60.3        | 19             | 6-C8             | G9.5HPL      | 1    |      |
| HPL240V-750WCN | 240            | 750            | 19,750               | 3,200              | 300               | 104         | 60.3        | 19             | 6-C8             | G9.5HPL      | 2    |      |
| HPL240V-750WXN | 240            | 750            | 15,600               | 3,050              | 1500              | 104         | 60.3        | 19             | 6-C8             | G9.5HPL      | 2    |      |

## Dimensions





## Halogen single ended quartz

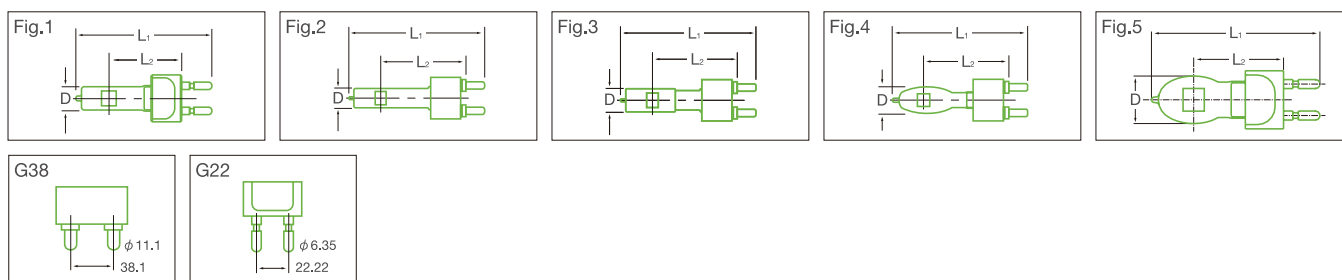
The filament design is for wide flood lighting sources.

High wattage and high color temperature for high output lighting fixtures.



| Type               | Voltage (V) | Wattage (W) | App. luminous (lm) | Color temp. (K) | Rated life (h) | Dimensions  |             |                | Filament type | Base type | Fig. | Note     |
|--------------------|-------------|-------------|--------------------|-----------------|----------------|-------------|-------------|----------------|---------------|-----------|------|----------|
|                    |             |             |                    |                 |                | MOL (L1:mm) | LCL (L2:mm) | Dia Max.(D:mm) |               |           |      |          |
| JS120V-500WC       | 120         | 500         | 13,000             | 3,200           | 100            | 127         | 63.5        | 19             | C-13D         | G22       | 1    | EGN      |
| JS120V-750WC       | 120         | 750         | 21,000             | 3,200           | 200            | 127         | 63.5        | 23             | C-13D         | G22       | 1    | EGR      |
| JS120V-1000WC      | 120         | 1000        | 28,500             | 3,200           | 225            | 127         | 63.5        | 23             | C-13D         | G22       | 1    | EGT      |
| JS120V-1000WC2     | 120         | 1000        | 28,500             | 3,200           | 200            | 200         | 127         | 30             | C-13D         | G38       | 2    | CYV      |
| JS120V-2000WC      | 120         | 2000        | 56,000             | 3,200           | 400            | 215         | 127         | 40             | C-13          | G38       | 4    | CYX      |
| JS220V-1000WC      | 220         | 1,000       | 26,000             | 3,200           | 200            | 140         | 63.5        | 36             | C-13          | G22       | 5    | CP40     |
| JS220V-1000WC1B    | 220         | 1,000       | 25,000             | 3,200           | 200            | 140         | 63.5        | 23             | C-13D         | G22       | 1    | CP71     |
| JS220V-1500WB      | 220         | 1,500       | 35,000             | 3,050           | 400            | 140         | 75.0        | 34             | C-13          | G22       | 1    |          |
| JS220V-2000WC      | 220         | 2,000       | 54,000             | 3,200           | 400            | 210         | 127         | 36             | C-13          | G38       | 4    | CP41/FKK |
| JS220V-3000WC      | 220         | 3,000       | 82,000             | 3,200           | 300            | 215         | 127.0       | 40             | C-13D         | G38       | 3    |          |
| JS230V-1000WC1B    | 230         | 1,000       | 25,000             | 3,200           | 200            | 140         | 63.5        | 23             | C-13D         | G22       | 1    | CP71     |
| JS230V-1000WC/V    | 230         | 1,000       | 25,500             | 3,200           | 200            | 140         | 72.5        | 22             | C-13D         | G22       | 1    |          |
| JS230V-2000WC/CP41 | 230         | 2000        | 50,000             | 3,200           | 250            | 210         | 127         | 37             | C-13          | G38       | 4    | CP41/FKK |
| JS230V-2000WC/CP75 | 230         | 2000        | 50,000             | 3,200           | 400            | 160         | 75          | 40             | C-13D         | G22       | 5    | CP75     |
| JS230V-3000WC      | 230         | 3000        | 74,000             | 3,100           | 250            | 210         | 127         | 37             | C-13          | G38       | 3    |          |
| JS240V-1000WC/V    | 240         | 1000        | 25,500             | 3,200           | 200            | 140         | 72.5        | 22             | C-13D         | G22       | 1    |          |
| JS240V-1000WC1     | 240         | 1,000       | 25,000             | 3,200           | 200            | 140         | 63.5        | 23             | C-13D         | G22       | 1    | CP71     |

## Dimensions

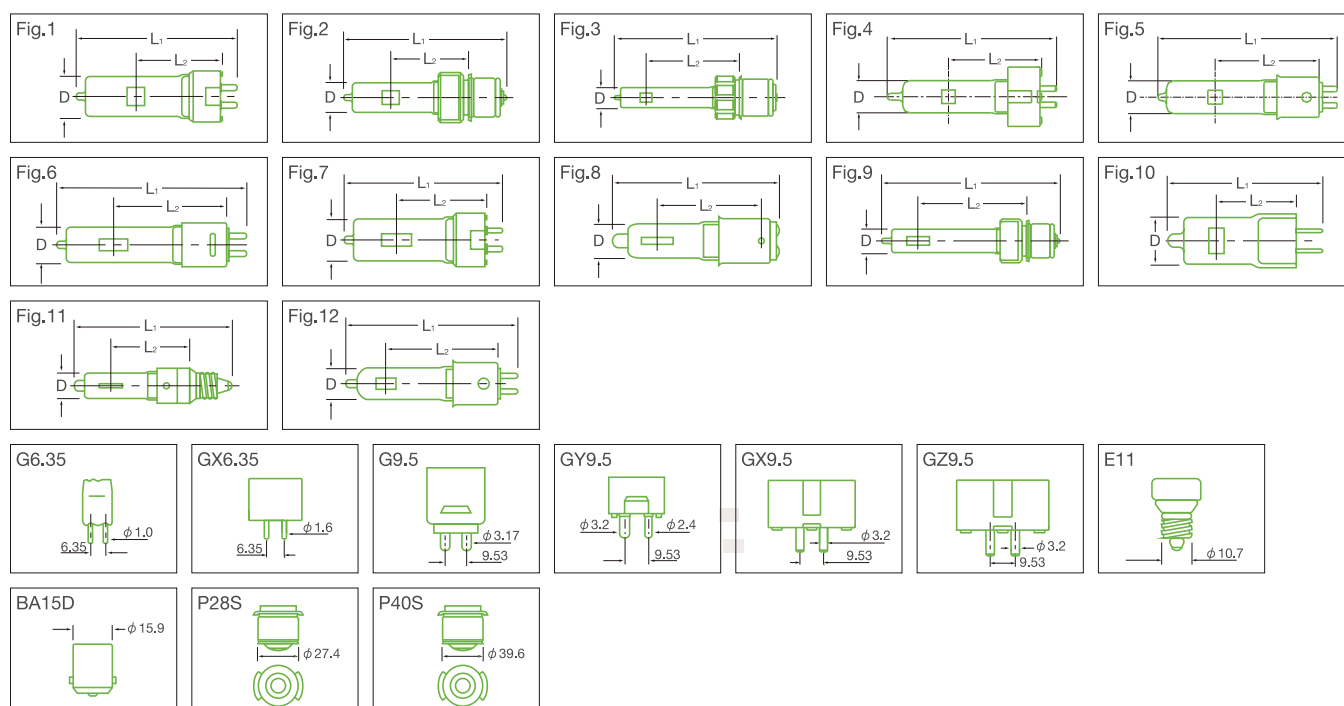


The design of filament is for wide lighting source.



| Type              | Voltage<br>(V) | Wattage<br>(W) | App. luminous<br>(lm) | Color temp.<br>(K) | Rated life<br>(h) | Dimensions  |             |                | Filament<br>type | Base<br>type | Fig. | Note    |
|-------------------|----------------|----------------|-----------------------|--------------------|-------------------|-------------|-------------|----------------|------------------|--------------|------|---------|
|                   |                |                |                       |                    |                   | MOL (L1:mm) | LCL (L2:mm) | Dia Max.(D:mm) |                  |              |      |         |
| JCS115V-600WCM    | 115            | 600            | 15,600                | 3,200              | 300               | 104         | 60.3        | 19             | C-13D            | G9.5         | 5    | GLC     |
| JCS120V-300WC     | 120            | 300            | 6,900                 | 3,200              | 150               | 90          | 46.5        | 19             | C-13             | GY9.5        | 1    | FKW     |
| JCS120V-500WBP28  | 120            | 500            | 11,000                | 3,050              | 500               | 127         | 55.6        | 19             | C-13D            | P28S         | 2    | BTL     |
| JCS120V-500WB2P28 | 120            | 500            | 11,000                | 3,050              | 500               | 155.6       | 88.9        | 19             | C-13D            | P28S         | 2    | DNS/FMC |
| JCS120V-500WC1    | 120            | 500            | 13,000                | 3,200              | 150               | 90          | 46.5        | 25             | C-13             | GY9.5        | 1    |         |
| JCS120V-500WCP28  | 120            | 500            | 13,000                | 3,200              | 100               | 127         | 55.5        | 19             | C-13D            | P28S         | 2    | BTM     |
| JCS120V-500WC/M   | 120            | 500            | -                     | 3,250              | 50                | 76.2        | 36.5        | 19.5           | C-13D            | GY9.5        | 1    | EHA     |
| JCS120V-625WC/M   | 120            | 625            | -                     | 3,200              | 75                | 88.9        | 44.5        | 19             | C-13D            | GY9.5        | 1    | BVE     |
| JCS120V-650WC     | 120            | 650            | 16,500                | 3,200              | 150               | 90          | 46.5        | 25             | C-13             | GY9.5        | 1    | FRK     |
| JCS120V-750WBP28  | 120            | 750            | 17,000                | 3,050              | 500               | 127         | 55.5        | 23             | C-13D            | P28S         | 2    | BTN     |
| JCS120V-750WB2P28 | 120            | 750            | 17,000                | 3,050              | 500               | 155.5       | 88.9        | 23             | C-13D            | P28S         | 2    | DNT/FMD |
| JCS120V-750WC1    | 120            | 750            | 21,000                | 3,200              | 200               | 114         | 60.3        | 22.5           | C-13D            | G9.5         | 6    | BWM     |
| JCS120V-750WCP28  | 120            | 750            | 20,000                | 3,200              | 200               | 127         | 55.5        | 23             | C-13D            | P28S         | 2    | BTP     |
| JCS120V-900WS/M   | 120            | 900            | -                     | 3,250              | 75                | 88.9        | 44.5        | 23             | C-13D            | GY9.5        | 1    | BVA     |
| JCS120V-1000WCP28 | 120            | 1000           | 27,500                | 3,200              | 200               | 127         | 55.5        | 23             | C-13D            | P28S         | 2    | BTR     |
| JCS120V-1000WBP40 | 120            | 1000           | 23,000                | 3,050              | 500               | 177.8       | 100         | 23             | C-13D            | P40S         | 3    | BVT     |
| JCS120V-1000WCP40 | 120            | 1000           | 27,500                | 3,200              | 200               | 177.8       | 100         | 23             | C-13D            | P40S         | 3    | BVV     |
| JCS120V-2000WCP40 | 120            | 2000           | 57,500                | 3,200              | 200               | 203.2       | 100         | 36             | C-13             | P40S         | 3    | BWW     |
| JCS220V-650WC1GXB | 220            | 650            | 16,500                | 3,200              | 100               | 110         | 55          | 23             | C-13D            | GX9.5        | 4    | CP67    |
| JCS230V-650WC1GXB | 230            | 650            | 16,500                | 3,200              | 100               | 110         | 55          | 23             | C-13D            | GX9.5        | 4    | CP67    |
| JCS240V-1000WC    | 240            | 1000           | 25,000                | 3,200              | 200               | 110         | 55          | 23             | BP               | GX9.5        | 1    | CP70    |
| JCS240/250V-650WC | 245            | 650            | 16,500                | 3,200              | 150               | 90          | 46.5        | 23             | C-13             | GY9.5        | 1    | CP89    |

### Dimensions



Compact filament for more concentrated beam of light sources.

Compact design with double coil filament.

High wattage and high color temperature for effective performance.



| Type              | Voltage<br>(V) | Wattage<br>(W) | App. luminous<br>(lm) | Color temp.<br>(K) | Rated life<br>(h) | Dimensions  |             |                | Filament<br>type | Base<br>type | Fig. | Note    |
|-------------------|----------------|----------------|-----------------------|--------------------|-------------------|-------------|-------------|----------------|------------------|--------------|------|---------|
|                   |                |                |                       |                    |                   | MOL (L1:mm) | LCL (L2:mm) | Dia Max.(D:mm) |                  |              |      |         |
| JCV30V-250WS1     | 30             | 250            | 7,500                 | 3,400              | 6                 | 50          | 24.5        | 11.5           | CC-8             | G6.35-13     | 10   | EPL     |
| JCV115V-400WBM    | 115            | 400            | 8,500                 | 3,050              | 1,500             | 104         | 60.3        | 19             | CC-8             | G9.5         | 12   |         |
| JCV115V-400WCM    | 115            | 400            | 10,000                | 3,200              | 300               | 104         | 60.3        | 19             | CC-8             | G9.5         | 12   |         |
| JCV115V-575WBM    | 115            | 575            | 12,800                | 3,050              | 1,500             | 104         | 60.3        | 19             | CC-8             | G9.5         | 12   |         |
| JCV115V-575WCM    | 115            | 575            | 16,000                | 3,200              | 300               | 104         | 60.3        | 19             | CC-8             | G9.5         | 12   |         |
| JCV120V-125WB     | 120            | 125            | 2,500                 | 3,000              | 200               | 57          | 32.0        | 11.5           | CC-8             | G5.3         | —    | FSH     |
| JCV120V-250WC     | 120            | 250            | 5,880                 | 3,200              | 50                | 57          | 32.0        | 11.5           | CC-8             | G5.3         | —    | GCA     |
| JCV120V-300WC     | 120            | 300            | 8,100                 | 3,200              | 30                | 57.5        | 30.0        | 16             | CC-8             | GX6.35-20    | 10   | (FNS)   |
| JCV120V-300WGY    | 120            | 300            | 5,800                 | 3,000              | 2,000             | 88.9        | 50.8        | 16             | CC-8             | GZ9.5        | 7    | FNA     |
| JCV120V-325WBS    | 120            | 325            | 7,800                 | 3,050              | 800               | 80          | 41.5        | 14             | CC-8             | E11          | 11   | EHV     |
| JCV120V-500WBH    | 120            | 500            | 10,000                | 3,000              | 2,000             | 101.6       | 60.3        | 15             | CC-8             | G9.5         | 6    |         |
| JCV120V-500WBM    | 120            | 500            | 10,000                | 3,000              | 2,000             | 101.6       | 60.3        | 14             | CC-8             | G9.5         | 6    | EHD     |
| JCV120V-500WCM    | 120            | 500            | 12,700                | 3,200              | 300               | 102         | 60.3        | 13             | CC-8             | G9.5         | 6    | EHC     |
| JCV120V-500WBP28  | 120            | 500            | 10,000                | 3,000              | 2,000             | 152         | 88.9        | 19             | CC-8             | P28S         | 9    | EGE     |
| JCV120V-500WCP28  | 120            | 500            | 13,000                | 3,200              | 150               | 152         | 88.9        | 19             | CC-8             | P28S         | 9    | EGC     |
| JCV120V-500WGB    | 120            | 500            | 10,450                | 3,000              | 2,000             | 92          | 54.0        | 13             | CC-8             | BA15D        | 8    |         |
| JCV120V-600WGY    | 120            | 600            | 12,500                | 3,000              | 2,000             | 88.9        | 50.8        | 17.7           | CC-8             | GZ9.5        | 7    | FMR     |
| JCV120V-650WC     | 120            | 650            | 17,000                | 3,200              | 100               | 57.5        | 30.0        | 24             | 2-CC8            | GX6.35-25    | 7    |         |
| JCV120V-750WB1    | 120            | 750            | 17,500                | 3,050              | 500               | 95          | 50.8        | 15             | CC-8             | E11          | 11   | EYT     |
| JCV120V-750WBH    | 120            | 750            | 15,800                | 3,000              | 2,000             | 104.8       | 60.3        | 18             | CC-8             | G9.5         | 6    | EHG     |
| JCV120V-750WCH    | 120            | 750            | 20,400                | 3,200              | 300               | 104.7       | 60.3        | 15             | CC-8             | G9.5         | 6    | EHF     |
| JCV120V-750WBP28  | 120            | 750            | 15,000                | 3,000              | 2,000             | 152.4       | 88.9        | 19             | CC-8             | P28S         | 9    | EGG     |
| JCV120V-750WCP28  | 120            | 750            | 20,000                | 3,200              | 250               | 152.4       | 88.9        | 19             | CC-8             | P28S         | 9    | EGF     |
| JCV120V-1000WBM   | 120            | 1,000          | 21,000                | 3,000              | 1,500             | 104         | 60.3        | 19             | CC-8             | G9.5         | 6    |         |
| JCV120V-1000WBP28 | 120            | 1,000          | 21,500                | 3,000              | 2,000             | 152         | 88.9        | 19             | CC-8             | P28S         | 9    | EGM     |
| JCV120V-1000WCH   | 120            | 1,000          | 27,000                | 3,200              | 375               | 101.6       | 60.3        | 19             | CC-8             | G9.5         | 6    | FEL     |
| JCV120V-1000WCFH  | 120            | 1,000          | 27,000                | 3,200              | 375               | 101.6       | 60.3        | 19             | CC-8             | G9.5         | 6    | Frosted |
| JCV120V-1000WCP28 | 120            | 1,000          | 25,500                | 3,200              | 400               | 146         | 88.9        | 19             | CC-8             | P28S         | 9    | EGJ     |
| JCV120V-1000WC3   | 120            | 1,000          | 26,000                | 3,200              | 300               | 100         | 51.0        | 13.5           | CC-8             | E11          | 11   |         |
| JCV120V-1000WC4   | 120            | 1,000          | 27,000                | 3,200              | 100               | 67.5        | 38.0        | 23             | 2-CC8            | GX6.35-25    | 10   |         |
| JCV120V-2000WC    | 120            | 2,000          | 56,000                | 3,200              | 200               | 140         | 77.5        | 29             | CC-8             | G9.5         | 6    |         |
| JCV130V-500WGS    | 130            | 500            | 10,000                | 3,000              | 2,000             | 95.3        | 50.8        | 14             | CC-8             | E11          | 11   |         |
| JCV130V-500WGSF   | 130            | 500            | 10,000                | 3,000              | 2,000             | 95.3        | 50.8        | 14             | CC-8             | E11          | 11   | Frosted |
| JCV220V-500WBM    | 220            | 500            | 10,500                | 3,000              | 400               | 102         | 60.3        | 15             | CC-8             | G9.5         | 6    |         |
| JCV220V-1000WCH   | 220            | 1,000          | 26,000                | 3,200              | 150               | 101.6       | 60.3        | 19             | CC-8             | G9.5         | 6    | CP77    |
| JCV230V-200WGB    | 230            | 200            | 2,600                 | 2,800              | 2,000             | 63          | 35.0        | 15             | CC-8             | BA15D        | 8    |         |
| JCV230V-500WGS    | 230            | 500            | 9,000                 | 2,950              | 2,000             | 92          | 50.8        | 13             | CC-8             | E11          | 6    |         |
| JCV240V-500WBM    | 240            | 500            | 10,500                | 3,000              | 400               | 102         | 60.5        | 15             | CC-8             | G9.5         | 6    |         |
| JCV240V-700WCH    | 240            | 700            | 16,000                | 3,200              | 350               | 104         | 60.3        | 19             | CC-8             | G9.5         | 6    |         |
| JCV240V-1000WCH   | 240            | 1,000          | 26,500                | 3,200              | 300               | 101.6       | 60.3        | 19             | CC-8             | G9.5         | 6    | FEP     |

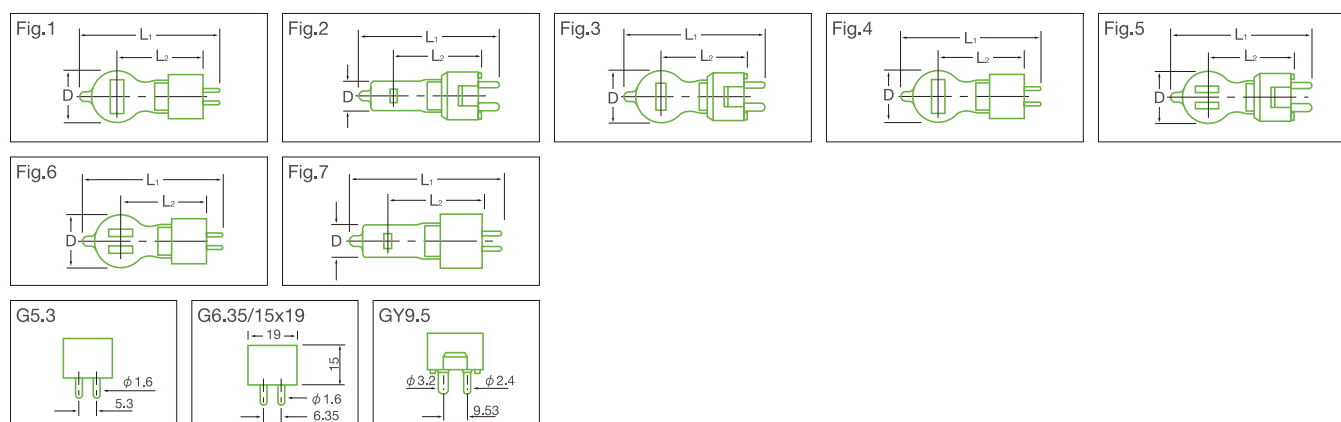


Compact filament design for excellent efficiency and light distribution.  
High wattage and high color temperature for effective performance.



| Type             | Voltage<br>(V) | Wattage<br>(W) | App. luminus<br>(lm) | Color temp.<br>(K) | Rated life<br>(h) | Dimensions  |             |                | Filament<br>type | Base<br>type | Fig. | Note        |
|------------------|----------------|----------------|----------------------|--------------------|-------------------|-------------|-------------|----------------|------------------|--------------|------|-------------|
|                  |                |                |                      |                    |                   | MOL (L1:mm) | LCL (L2:mm) | Dia Max.(D:mm) |                  |              |      |             |
| JCD30V-200WC1    | 30             | 200            | 5,300                | 3,200              | 200               | 57          | 32.0        | 11.5           | CC-6             | G5.3         | 7    | GCB         |
| JCD30V-250WS     | 30             | 250            | 8,000                | 3,400              | 15                | 60          | 36.5        | 15             | CC-6             | GY9.5        | 2    | DYG         |
| JCD110V-650WC    | 110            | 650            | 16,200               | 3,200              | 150               | 62          | 36.5        | 22             | CC-6             | GY9.5        | 3    |             |
| JCD120V-500CT    | 120            | 500            | 12,500               | 3,200              | 200               | 62          | 36.5        | 22             | CC-6             | GY9.5        | 2    | FTK         |
| JCD120V-250WB    | 120            | 250            | 6,050                | 3,050              | 150               | 63.5        | 36.5        | 22             | CC-6             | G5.3         | 1    | EYH/FKT     |
| JCD120V-300WC    | 120            | 300            | 7,350                | 3,200              | 100               | 62          | 36.5        | 22             | CC-6             | GY9.5        | 3    |             |
| JCD120V-300WCP   | 120            | 300            | 7,350                | 3,200              | 100               | 62          | 37.0        | 22             | CC-6             | G5.3         | 1    |             |
| JCD120V-300WL    | 120            | 300            | 7,350                | 3,200              | 100               | 62          | 37.0        | 22             | CC-6             | G6.35/15x19  | 4    |             |
| JCD120V-420WC    | 120            | 420            | 11,000               | 3,200              | 75                | 62          | 36.5        | 22             | CC-6             | GY9.5        | 3    | EKB         |
| JCD120V-500WC    | 120            | 500            | 13,000               | 3,200              | 100               | 62          | 36.5        | 22             | CC-6             | GY9.5        | 3    |             |
| JCD120V-600WC    | 120            | 600            | 17,000               | 3,200              | 75                | 63.5        | 36.5        | 22             | CC-6             | GY9.5        | 3    | DYS/DYV/BHC |
| JCD120V-600WCP   | 120            | 550            | 13,750               | 3,200              | 75                | 62          | 36.5        | 22             | CC-6             | G5.3         | 1    | DYH         |
| JCD120V-650WC    | 120            | 650            | 16,200               | 3,200              | 150               | 62          | 36.5        | 22             | CC-6             | GY9.5        | 3    |             |
| JCD120V-650WCP   | 120            | 650            | 16,200               | 3,200              | 75                | 62          | 37.0        | 22             | CC-6             | G5.3         | 1    |             |
| JCD120V-650WL    | 120            | 650            | 16,200               | 3,200              | 150               | 62          | 37.0        | 22             | CC-6             | G6.35/15x19  | 4    |             |
| JCD120V-650WS    | 120            | 650            | 20,000               | 3,400              | 25                | 62          | 36.5        | 22             | CC-6             | GY9.5        | 3    | EKD         |
| JCD120V-650WSP   | 120            | 650            | 20,000               | 3,400              | 25                | 62          | 36.5        | 22             | CC-6             | G5.3         | 1    | DVY         |
| JCD120V-800WC    | 120            | 800            | 21,000               | 3,200              | 75                | 62          | 36.5        | 24             | CC-6             | GY9.5        | 3    |             |
| JCD125V-600WC/UA | 125            | 600            | 13,750               | 3,200              | 70                | 62          | 36.5        | 24             | CC-6             | GY9.5        | 3    |             |
| JCD220V-300WL    | 220            | 300            | 7,050                | 3,200              | 50                | 62          | 37.0        | 24             | 2-CC8            | G6.35/15x19  | 6    |             |
| JCD220V-650WC1   | 220            | 650            | 16,200               | 3,200              | 50                | 62          | 37.0        | 24             | 2-CC8            | GY9.5        | 5    | DYR         |
| JCD230V-300WC    | 230            | 300            | 7,050                | 3,200              | 50                | 62          | 36.5        | 24             | 2-CC8            | GY9.5        | 5    |             |
| JCD230V-650WSP   | 230            | 650            | 20,000               | 3,400              | 20                | 63.5        | 36.5        | 24             | 2-CC8            | G5.3         | 6    | DYJ         |
| JCD240V-500WC    | 240            | 500            | 12,500               | 3,200              | 50                | 62          | 36.5        | 24             | 2-CC8            | GY9.5        | 5    |             |
| JCD240V-650WC2   | 240            | 650            | 16,200               | 3,200              | 50                | 63.5        | 37.0        | 24             | 2-CC8            | GY9.5        | 5    | DYR         |

### Dimensions





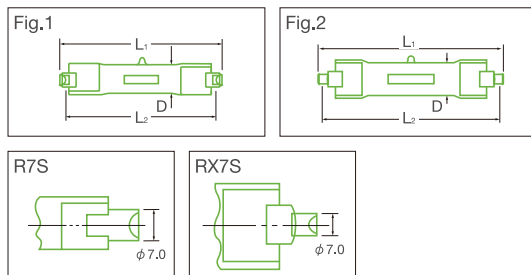
Compact halogen lamps using double coil filament.

High wattage and high color temperature in compact size.



| Type             | Voltage (V) | Wattage (W) | App. luminous (lm) | Color temp. (K) | Rated life (h) | Dimensions  |                |                | Filament type | Base type  | Fig. | Note       |
|------------------|-------------|-------------|--------------------|-----------------|----------------|-------------|----------------|----------------|---------------|------------|------|------------|
|                  |             |             |                    |                 |                | MOL (L1:mm) | C to C (L2:mm) | Dia Max.(D:mm) |               |            |      |            |
| JPD25V-150WG1    | 25          | 150         | 2,700              | 2,900           | 3000           | 66.7        | 61.3           | 15             | CC-8          | R7S        | 1    |            |
| JPD30V-375W      | 30          | 375         | 7,500              | 3,000           | 1000           | 80.3        | 74.9           | 15             | CC-8          | R7S        | 1    | DWZ        |
| JPD120V-300WG    | 120         | 300         | 5,500              | 2,900           | 2000           | 80.3        | 74.9           | 15             | CC-8          | R7S        | 1    | EHP        |
| JPD120V-400WC    | 120         | 400         | 10,400             | 3,200           | 250            | 80.3        | 74.9           | 15             | CC-8          | R7S        | 1    | FDA        |
| JPD120V-400WG    | 120         | 400         | 6,400              | 2,900           | 2000           | 80.3        | 74.9           | 15             | CC-8          | R7S        | 1    | EHR        |
| JPD120V-420WC    | 120         | 420         | 11,000             | 3,200           | 75             | 66.7        | 61.3           | 15             | CC-8          | R7S        | 1    | FAL        |
| JPD120V-420WC1   | 120         | 420         | 11,000             | 3,200           | 75             | 80.3        | 74.9           | 15             | CC-8          | R7S        | 1    | FFM        |
| JPD120V-600WCG   | 120         | 600         | 17,000             | 3,250           | 75             | 66.7        | 61.3           | 15             | CC-8          | R7S        | 1    | FFJ        |
| JPD120V-600WD    | 120         | 600         | 17,000             | 3,250           | 75             | 95          | 89.6           | 15             | CC-8          | R7S        | 1    | FCB        |
| JPD120V-650WC    | 120         | 650         | 16,500             | 3,200           | 100            | 80.3        | 74.9           | 15             | CC-8          | RX7S (R7S) | 1    | FAD        |
| JPD120V-650WCF   | 120         | 650         | 16,500             | 3,200           | 100            | 80.3        | 74.9           | 15             | CC-8          | RX7S (R7S) | 2    | FAD        |
| JPD120V-650WS    | 120         | 650         | 20,000             | 3,400           | 25             | 80.3        | 74.9           | 15             | CC-8          | R7S        | 1    | DWY        |
| JPD120V-650WSF   | 120         | 650         | 20,000             | 3,400           | 25             | 80.3        | 74.9           | 15             | CC-8          | R7S        | 1    | DWY        |
| JPD120V-1000WB1  | 120         | 1000        | 21,500             | 3,000           | 2000           | 143.5       | 138.1          | 19             | CC-8          | RX7S       | 2    | DWT        |
| JPD120V-1000WC2  | 120         | 1000        | 26,000             | 3,200           | 150            | 109.5       | 104.1          | 18             | CC-8          | R7S        | 1    | DYA        |
| JPD120V-1000WC5  | 120         | 1000        | 25,000             | 3,200           | 150            | 95          | 89.6           | 18             | CC-8          | R7S        | 1    | DXW        |
| JPD120V-1000WCF5 | 120         | 1000        | 25,000             | 3,200           | 150            | 95          | 89.6           | 18             | CC-8          | R7S        | 1    | FBY        |
| JPD120V-1000WC6  | 120         | 1,000       | 27,500             | 3,200           | 400            | 143.5       | 138.1          | 19             | CC-8          | RX7S       | 1    | FER        |
| JPD120V-1000WS1  | 120         | 1,000       | 31,000             | 3,400           | 30             | 95          | 89.6           | 18             | CC-8          | R7S        | 1    | DXN        |
| JPD120V-2000WC   | 120         | 2,000       | 57,000             | 3,200           | 400            | 143.5       | 138.1          | 29             | CC-8          | RX7S       | 2    | FEY, P2/27 |
| JPD220V-650WC    | 225         | 645         | 15,000             | 3,200           | 50             | 80.3        | 74.9           | 15             | CC-8          | R7S        | 1    |            |
| JPD220V-800WC1   | 220         | 800         | 20,000             | 3,200           | 75             | 80.3        | 74.9           | 15             | CC-8          | R7S        | 1    | DXX (220V) |
| JPD220V-1000WC   | 220         | 1000        | 26,000             | 3,200           | 120            | 93.8        | 88.4           | 18             | CC-8          | R7S        | 1    |            |
| JPD230V-1000WC   | 230         | 1000        | 26,000             | 3,200           | 120            | 93.8        | 88.4           | 18             | CC-8          | R7S        | 1    |            |
| JPD230V-2000WC   | 230         | 2,000       | 50,000             | 3,200           | 300            | 143.5       | 138.1          | 29             | CC-8          | R7S        | 2    | FEX (230V) |
| JPD230V-800WC    | 230         | 800         | 20,000             | 3,200           | 75             | 80.3        | 74.9           | 15             | CC-8          | R7S        | 1    | DXX (230V) |
| JPD240V-800WC    | 240         | 800         | 20,000             | 3,200           | 75             | 80.3        | 74.9           | 14             | CC-8          | R7S        | 1    | DXX (240V) |
| JPD240V-1000WC   | 240         | 1,000       | 26,000             | 3,200           | 120            | 93.8        | 88.4           | 18             | CC-8          | R7S        | 1    |            |
| JPD240V-2000WC1  | 240         | 2000        | 50,000             | 3,200           | 300            | 143.5       | 138.1          | 29             | CC-8          | RX7S       | 2    | FEX (240V) |

### Dimensions





## Halogen double ended quartz

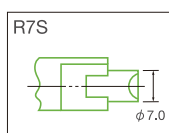
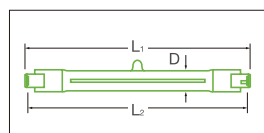
Wide filament for wide area lighting.

High wattage and high color temperature performance.



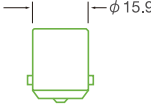
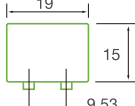
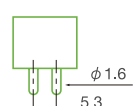
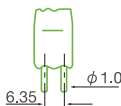
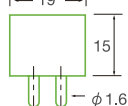
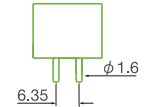
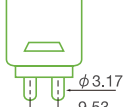
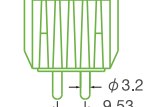
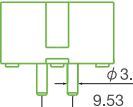
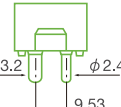
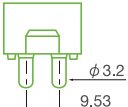
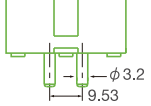
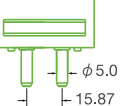
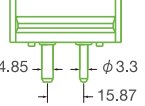
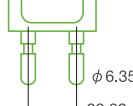
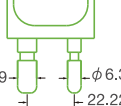
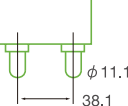
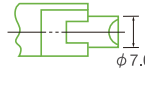
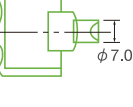
| Type            | Voltage<br>(V) | Wattage<br>(W) | App. luminous<br>(lm) | Color temp.<br>(K) | Rated life<br>(h) | Dimensions  |             |                | Filament<br>type | Base<br>type | Note              |
|-----------------|----------------|----------------|-----------------------|--------------------|-------------------|-------------|-------------|----------------|------------------|--------------|-------------------|
|                 |                |                |                       |                    |                   | MOL (L1:mm) | LCL (L2:mm) | Dia Max.(D:mm) |                  |              |                   |
| JP120V-500WC2   | 120            | 500            | 11,000                | 3,100              | 100               | 135.2       | 129.8       | 12             | C-8              | R7S(special) | GDA               |
| JP120V-500WC6   | 120            | 500            | 13,000                | 3,200              | 300               | 119.6       | 114.2       | 12             | C-8              | R7S          | FDF               |
| JP120V-500WCF6  | 120            | 500            | 12,700                | 3,200              | 300               | 119.6       | 114.2       | 12             | C-8              | R7S          | FDN (Frosted)     |
| JP120V-750WC    | 120            | 750            | 20,600                | 3,200              | 400               | 119.6       | 114.2       | 12             | C-8              | R7S          | EJG               |
| JP120V-750WCF   | 120            | 750            | 20,600                | 3,200              | 400               | 119.6       | 114.2       | 12             | C-8              | R7S          | EMD (Frosted)     |
| JP120V-1000WC1  | 120            | 1,000          | 28,000                | 3,200              | 400               | 119.6       | 114.2       | 12             | C-8              | R7S          | FCM               |
| JP120V-1000WCF1 | 120            | 1,000          | 27,400                | 3,200              | 400               | 119.6       | 114.2       | 12             | C-8              | R7S          | FHM (Frosted)     |
| JP120V-1000WC2  | 120            | 1,000          | 26,400                | 3,200              | 500               | 167.4       | 162.0       | 12             | C-8              | R7S          | FFT               |
| JP120V-1000WS   | 120            | 1,000          | 31,000                | 3,400              | 30                | 127.1       | 121.7       | 12             | C-8              | R7S          | P1/12 (120V)      |
| JP120V-1500WC   | 120            | 1,500          | 41,000                | 3,200              | 400               | 167.4       | 162.0       | 14             | C-8              | R7S          | FDB               |
| JP120V-1500WCF  | 120            | 1,500          | 40,200                | 3,200              | 400               | 167.4       | 162.0       | 14             | C-8              | R7S          | FGT               |
| JP120V-2000WC   | 120            | 2,000          | 50,000                | 3,200              | 125               | 167.4       | 162.0       | 14             | C-8              | R7S          | FFW               |
| JP185V-1000WS   | 185            | 1,000          | 28,500                | 3,300              | 100               | 119.6       | 114.2       | 12             | C-8              | R7S          | EJD               |
| JP220V-500WCF   | 220            | 500            | 12,300                | 3,200              | 200               | 119.6       | 114.2       | 12             | C-8              | R7S          |                   |
| JP220V-500WC    | 220            | 500            | 12,500                | 3,200              | 200               | 119.6       | 114.2       | 12             | C-8              | R7S          |                   |
| JP220V-800WC    | 220            | 800            | 22,000                | 3,200              | 250               | 119.6       | 114.2       | 12             | C-8              | R7S          | EMF, P2/11 (220V) |
| JP220V-800WCF   | 220            | 800            | 21,000                | 3,200              | 150               | 119.6       | 114.2       | 12             | C-8              | R7S          | Frosted           |
| JP220V-1500WCL1 | 220            | 1,500          | 40,000                | 3,200              | 200               | 250.6       | 245.2       | 12             | C-8              | R7S          |                   |
| JP225V-1000WCL  | 225            | 1,000          | 25,000                | 3,200              | 200               | 191.1       | 185.7       | 12             | C-8              | R7S          | P2/7 (225V)       |
| JP225V-1250WC1  | 225            | 1,250          | 31,200                | 3,200              | 200               | 191.1       | 185.7       | 12             | C-8              | R7S          | P1/12 (225V)      |
| JP230V-800WC1   | 230            | 800            | 20,000                | 3,200              | 250               | 119.6       | 114.2       | 12             | C-8              | R7S          | EME (230V)        |
| JP230V-800WCF   | 230            | 800            | 20,000                | 3,200              | 250               | 119.6       | 114.2       | 12             | C-8              | R7S          | Frosted           |
| JP240V-800WC    | 240            | 800            | 22,000                | 3,200              | 250               | 119.6       | 114.2       | 12             | C-8              | R7S          | EME, P2/11 (240V) |
| JP240V800WCF    | 240            | 800            | 19,500                | 3,200              | 250               | 119.6       | 114.2       | 12             | C-8              | R7S          | EMF (Frosted)     |
| JP240V-500WC    | 240            | 500            | 12,500                | 3,200              | 200               | 119.6       | 114.2       | 12             | C-8              | R7S          |                   |
| JP245V500WC/UA  | 245            | 500            | 11,000                | 3,150              | 100               | 135.2       | 129.8       | 12             | C-8              | R7S(special) | GDA               |

## Dimensions

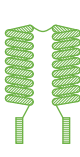




## Base types

|                                                                                             |                                                                                               |                                                                                              |                                                                                              |                                                                                              |                                                                                                    |
|---------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|
| <br>BA15D  | <br>2 Button | <br>E11     | <br>G5.3   | <br>G6.35 | <br>G6.35/15x19 |
| <br>GX6.35 | <br>G9.5     | <br>G9.5HPL | <br>GX9.5  | <br>GY9.5 | <br>GYX9.5      |
| <br>GZ9.5 | <br>GX16    | <br>GY16   | <br>G22   | <br>GY22 | <br>G38        |
| <br>P28s | <br>P40s   | <br>R7S   | <br>RX7S |                                                                                              |                                                                                                    |

## Filament types

|                                                                                             |                                                                                             |                                                                                             |                                                                                              |                                                                                                |
|---------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|
| <br>CC-8 | <br>CC-6 | <br>C-13 | <br>C-13D | <br>2-CC8 |
| <br>4-C8 | <br>6-C8 | <br>C-8  |                                                                                              |                                                                                                |

# Highlights of Halogen Lamp

## Constant light output

The halogen cycle effectively prevents blackening of the bulb wall so that there is no reduction of light output or color temperature

## Long life

The halogen cycle gives longer lifetime than the ordinary incandescent lamps.

## Compact size

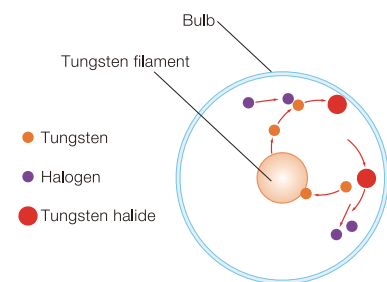
The size of the lamps are very small compare to the incandecent lamps.

## Heat impact resistance

Because of usine the quartz glass envelops,there is almost no danger that a lit halogen lamp will break even if it should come into contact with cold water.

## Halogen Cycle

When the filament is heated to a high degree, the tungsten evaporates and reacts chemically with the iodine gas(halogen gas) inside the bulb to produce tungsten iodide near the bulb wall. The tungsten iodide particles are moved by convection within the bulb and when they approach the highly heated filament,they are decomposed once again into iodine and tungsten. The tungsten returns to the filament once more and the same cycle is then repeated. This process, called "Halogen Cycle," effectively prevents blackening of the bulb wall and thinning of the filament's tungsten, thus resulting in longer lifetime.



## Light Distribution

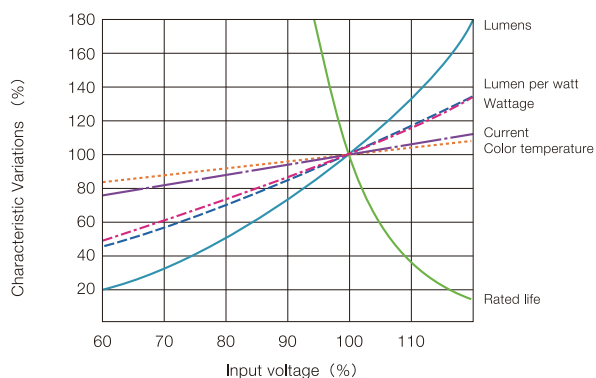
Several types of halogen lamps with color temperatures ranging from 2700K to 3400K are available.

The halogen cycle maintains stable color temperature throughout the life of each lamps.

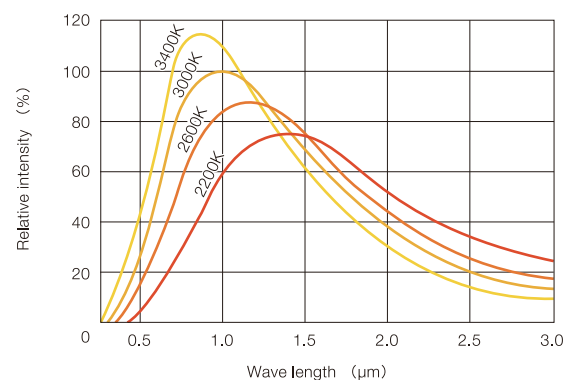
The lamps therefore ideal for use in Stage & Studio, Concert hall, TV studio and wherever else stable color temperature is of prime importance.

As shown in the spectral distribution diagram,halogen lamps generate much energy in the ifra-red area. This means that the lamps may be employed for heating as well as lighting purposes.

■ Voltage variation versus variation of factors



■ Spectrum distribution with fixed input of electrical energy

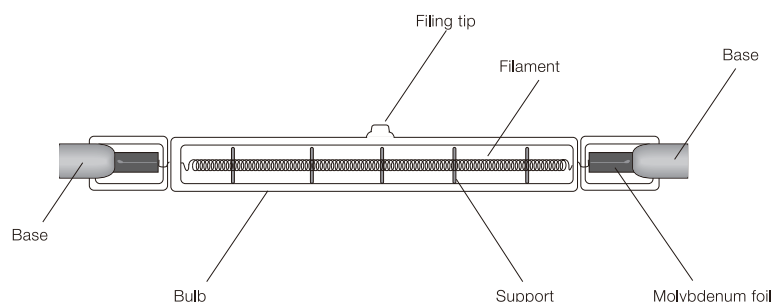




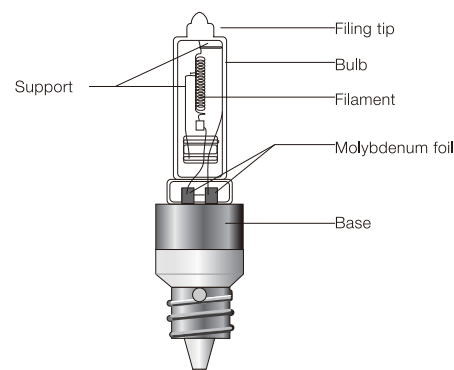


## Halogen lamp components

### ■ Double ended quartz



### ■ Single ended quartz



## Safety and Handling

### **DANGER !**

- Halogen lamps operate at extremely high temperature that can cause serious physical injuries and property damage.
- Only use Halogen lamps in Halogen-approved fixtures. Fixtures should fully contain any parts of the Halogen lamp upon the event of a lamp burst.
- Do not use Halogen lamps in close proximity of paper, cloth or other combustible materials that can cause a fire hazard.
- Lamps are very fragile. Do not drop, crush, bend or shake them. Vibration or impact will cause filament breakage and short lifetime.
- Do not touch the Halogen bulb surface or inside reflectors with your bare hands. Oils from skin can lead to breakage or shorten the life of the lamp. Use clean gloves or lint-free cloth for installation and removal.
- Clean any dirt, oil, or lint away from the lamp with alcohol and a lint-free cloth or tissue. Any foreign particles or materials on the bulb surface can cause hot spots on the bulb and result in lamp failure.
- Never touch the lamp when it is on, or soon after it has been turned off, as it is hot and may cause serious burns.
- Do not look directly at the operating lamp for any period of time; this may cause serious eye injuries.
- Always turn off the electrical power before inserting, removing, or cleaning the lamp.
- Affix the lamp securely in the socket. Improper installations will cause electrical arcing, overheating and short life to lamp and socket. Replace lamp holders and sockets when necessary.
- Keep the temperature of the Halogen lamp seal below 350° C.
- Keep the temperature of the Halogen lamp wall above 250° C.
- Keep the temperature of the Halogen lamp bulb wall below 800° C.
- Make sure lamps of specified wattage and voltage are only used in appropriately rated fixtures. Unspecified use will lead to short lifetime, breakage and overheating of fixture.
- Lamps should not be operated beyond the total rated voltage. Avoid the use of dimmers that may drive your lamp over its rated voltage.
- Operate the lamp only in the indicated burn position. Failure to do so will lead to overheating and shortened lamp life.
- Use an external fuse when required.
- Do not allow one lamp to directly expose another. This may lead to overheating and shortened lifetime.

# About USHIO

USHIO INC. started out as a manufacturer of industrial light sources in 1964.

It has since evolved by continuing to provide light units, equipment, and system as "lighting solution provider" through developing new light sources and applying proprietary optical technology.

USHIO's light technology is not only for "illumination" but also wide field of application such as "Electronics," "Visual imaging," and "life science."

We are constantly exploring new applications and uses for light, to create a brighter future for society and all mankind.

## Product clips for illumination

### Xenon lamps



Xenon short arc lamp is a highly illuminant point light source with continuous spectra, which radiates the closest light to natural daylight among all artificial light sources.

USHIO's Xenon short arc lamp occupies a high share in the world market of cinema projectors.

### Xenon follow spotlight SUPERSOL series

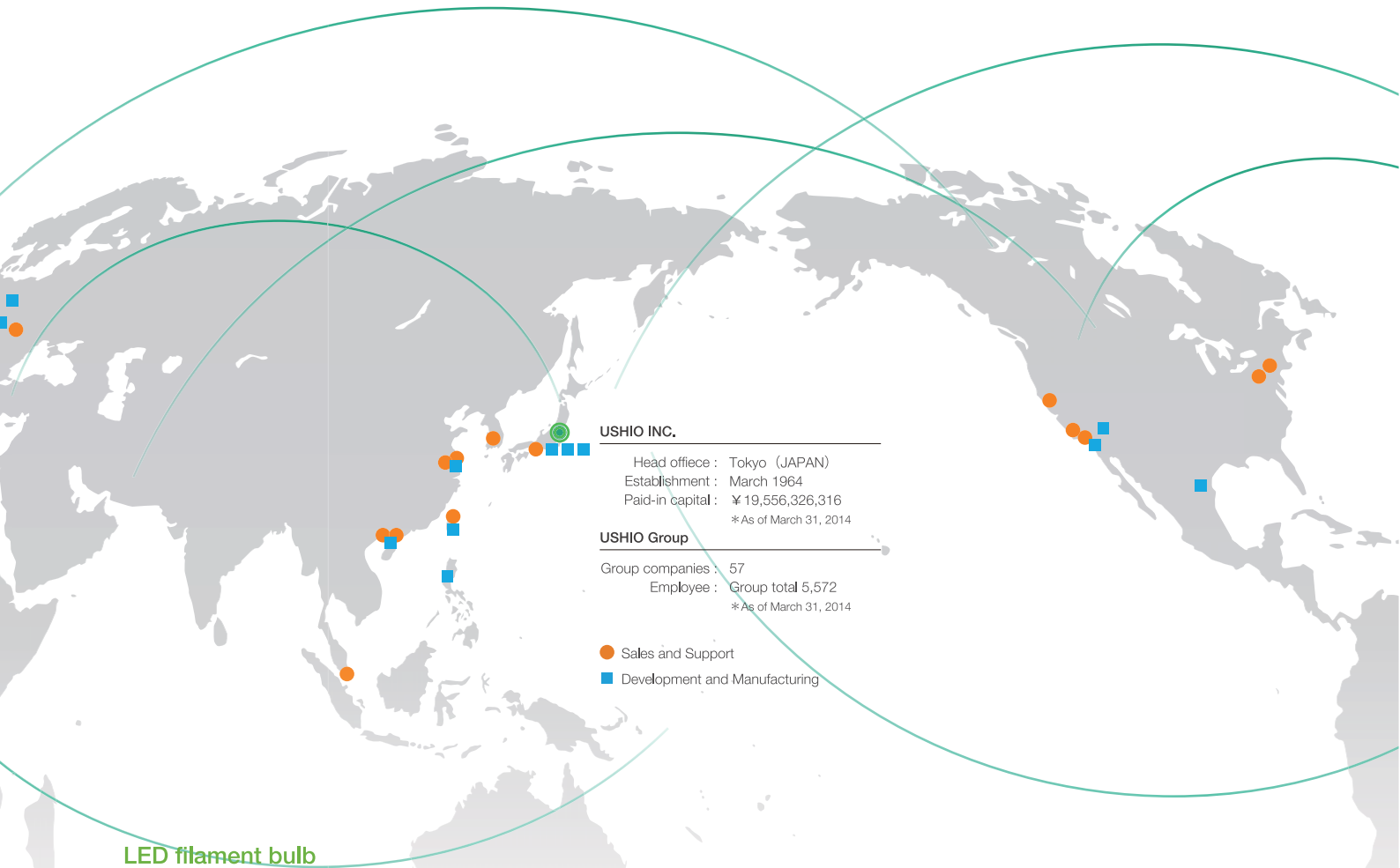
In 1965, USHIO released their first Xenon Followspot, SUPERSOL, based on our original light source technology for cinema projectors.

SUPERSOL has been, and still is, very popular in the Japanese market (market share in Japan over 90%)\*.

Today, our SUPERSOL series followspot provides an answer to maximize stage effects for the entertainment world.

\* Based on company source as of October 2014





### LED filament bulb

LED filament bulb reproduces the look of an incandescent filament bulb with LED technology.

The original filament shaped LED enables a multidirectional emission of light like a traditional incandescent bulb.

It creates an atmosphere suitable for any space.



### Other lamps and light sources



Ushio provides high quality lamps and light sources to a wide range of markets. Our halogen and LED lamps for the commercial lighting market have become the market leader in Japan.

Our products involve a wide range field such as fishing, agriculture, security, and the cutting-edge industries including semiconductor manufacturing.





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- Please note that the form, specifications of the products in the catalog are subject to change without notice.
- The color of the actual product and as depicted in the catalog may slightly differ because of the printing process.