

# "EUROPE" RANGE

## Zoom Profile Spotlights with Condenser Optics for 1000 / 1200 W Halogen Lamps

The profile spotlights of the EUROPE range are intended to fulfil the requirements of the most demanding Lighting Designers who, in their own interest, should always carry out comparative tests.

The use for all lenses of special optical glass with anti-reflection coating in addition to high performance, 2-lens condenser optics results in a spectacular light output, an even light distribution and a unique beam edge sharpness.

Zoom focusing is smooth and stable in any position, and allows very accurate beam control. A zoom scale facilitates repetitive adjustments.

A PC like soft edge beam can be obtained through the insertion in the zoom of a glass diffuser (option).

Beam shaping and imaging are achieved comfortably by 4 shutters working in 2 planes, an iris diaphragm or a size A gobo.

A front cassette allows one-hand insertion of a colour frame and any DIN 15560 accessory.

These spotlights are rebalanceable in any position by sliding the yoke along 2 slots provided over the full length of the unit. The yoke can be adjusted to a low or high position, a useful facility when space is limited. The tiltlock mechanism is easy and comfortable.

The lamp house which contains the shutter set and the effects slot is rotatable through 360° with respect to the lens tube and vice-versa.

Depending on the yoke position, the operator can either rotate the projected image, or move the focus controls to a preferred position, or correct the lamp position back to the vertical when the spotlight is mounted on a sloping bar.

Professional mechanical design, rugged and modular construction from injected and extruded aluminium, anti-corrosion treatment of all metal components and high quality finish guarantee reliable operation over a very long lifetime.

In addition to meeting current international safety standards, these spotlights provide several additional features which make them very safe to operate.

**Options :** pole operation and motorisation



- Exceptional light output
- Unparalleled light quality
- Simple, highly robust construction
- Harmonious, elegant and unobtrusive design
- Easy to handle
- Wide range of accessories
- Very favourable cost/performance ratio



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## Zoom Profile Spotlights 1000 / 1200 W

### Specifications

#### Housing

- The housing is built in 2 sections:
  - The lens tube fitted with a front cassette which provides 2 sets of runners for insertion of 185 x 185 mm (245 x 245 mm for DN 105) DIN 15560 accessories. The cassette is designed for preventing light spill. It can be easily removed and rotated in any position at 90°.
  - The lamp house equipped with a spring-loaded 4-shutter gate assembly and extended runners for a drop-in iris diaphragm and a gobo-holder.
- The lens tube and the lamp house are fitted with sliding lids for easy access to lenses and lamp.
- The lamp house is rotatable through 360° with respect to the lens tube and vice-versa. Effective clamping without any tool.  
A click-stop detent helps finding the normal position.
- The shutter gate contains 4 removable, stainless steel beam shaping shutters with anti-reflection coating, working in 2 planes.
- The back-end plate is fitted with a strong grab handle and CEE 22 power connector.
- Front and back-end plates of injected aluminium.  
Main body of extruded aluminium sections.
- Overall finish in non-reflective, heat and wear resisting black paint.

#### Positioning Mechanism

- A strong steel yoke, with positive tiltlock mechanism on both sides, can slide along 2 slots provided over the full length of the housing to allow spotlight balance in any position.
- Clamping is by one clutch type handle which does not interfere with the shutters.
- 2 sets of holes in the yoke arms to allow high or low positioning of the spotlight.
- 5 holes in the transverse arm of the yoke for fixing on a hook clamp or a DIN 15560 plate.
- Slanted yoke available as an option.

#### Optical System

- Spherical reflector of pure, polished, anodised aluminium.
- Aspherical condenser lens.
- Intermediate spherical lens.
- Zoom optics consisting of 2 to 4 polished plano-convex lenses.
- All lenses with anti-reflection coating.
- Optional zoom glass diffuser for sharp to soft edge beam conversion.
- Focusing mechanism with smooth control by 2 screw knobs + zoom scale for easy repetitive adjustments.
- Knob for beam edge sharpness fine adjustment.
- Upper and lower guides for respectively 1000 and 1200 W lamps.

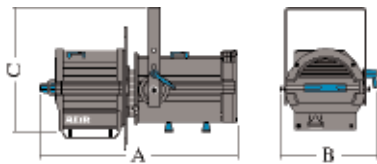
#### Electromechanical Components

- 2 m silicone power cable (2 x 1.5 + 1.5 mm<sup>2</sup>) with CEE 22 female connector on the luminaire side.
- GX 9.5 lampholder for 220/240 V, 1000 or 1200 W tungsten halogen lamps with respectively 55 or 67 mm light centre length (LCL).

#### Safety / Reliability

- This equipment complies with all applicable European directives and carries a CE mark.
- A safety mechanism prevents access to the lamp without first disconnecting the power cable.
- The power connector is secured by a stirrup.
- The spotlight does not present any sharp edge.
- An anchorage ring is provided for safety bond.
- Spring lock mechanisms prevent accidental drop-out of accessories.
- All handles and control knobs are heat insulated.
- All metal parts are protected against corrosion.





# "EUROPE"

## Zoom Profile Spotlights 1000 / 1200 W

### Photometric Data

#### DW 105 15° - 38°

Typical values

- 3 zoom lenses and condenser optics

Dimensions (A x B x C) : 710 x 340 x 420 mm  
 Net weight : 14 kg  
 Packing : 760 x 370 x 340 mm  
 Gross weight : 15.5 kg  
 12 units per pallet

| 1200 W / 30,000 lm      | Distance (m)      | 2.5    | 5     | 7.5   | 10    | 12.5  | 15   | 17.5 | 20   |
|-------------------------|-------------------|--------|-------|-------|-------|-------|------|------|------|
| <b>Min. Angle : 15°</b> | Ø Beam (m)        | 0.7    | 1.3   | 2     | 2.6   | 3.3   | 3.9  | 4.6  | 5.3  |
|                         | Light level (lux) | 32 640 | 8 160 | 3 630 | 2 040 | 1 300 | 910  | 670  | 510  |
| <b>Max. Angle : 38°</b> | Ø Beam (m)        | 1.7    | 3.4   | 5.2   | 6.9   | 8.6   | 10.3 | 12.1 | 13.8 |
|                         | Light level (lux) | 8 500  | 2 120 | 940   | 530   | 340   | 240  | 170  | 130  |
| 1000 W / 26,000 lm      | Distance (m)      | 2.5    | 5     | 7.5   | 10    | 12.5  | 15   | 17.5 | 20   |
| <b>Min. Angle : 15°</b> | Ø Beam (m)        | 0.7    | 1.3   | 2     | 2.6   | 3.3   | 3.9  | 4.6  | 5.3  |
|                         | Light level (lux) | 27 200 | 6 800 | 3 020 | 1 700 | 1 090 | 760  | 560  | 425  |
| <b>Max. Angle : 38°</b> | Ø Beam (m)        | 1.7    | 3.4   | 5.2   | 6.9   | 8.6   | 10.3 | 12.1 | 13.8 |
|                         | Light level (lux) | 6 720  | 1 680 | 750   | 420   | 270   | 190  | 137  | 105  |

#### DVW 105 38° - 57°

- 4 zoom lenses and condenser optics

Dimensions (A x B x C) : 600 x 340 x 420 mm  
 Net weight : 13.5 kg  
 Packing : 650 x 370 x 340 mm  
 Gross weight : 15 kg  
 12 units per pallet

| 1200 W / 30,000 lm      | Distance (m)      | 1.5    | 3     | 4.5   | 6     | 7.5 | 9   | 10.5 | 12  |
|-------------------------|-------------------|--------|-------|-------|-------|-----|-----|------|-----|
| <b>Min. Angle : 38°</b> | Ø Beam (m)        | 1      | 2.1   | 3.1   | 4.1   | 5.2 | 6.2 | 7.2  | 8.3 |
|                         | Light level (lux) | 22 222 | 5 556 | 2 469 | 1 389 | 889 | 617 | 454  | 347 |
| <b>Max. Angle : 57°</b> | Ø Beam (m)        | 1.6    | 3.3   | 4.9   | 6.5   | 8.1 | 9.8 | 11.4 | 13  |
|                         | Light level (lux) | 11 556 | 2 889 | 1 284 | 722   | 462 | 321 | 236  | 181 |
| 1000 W / 26,000 lm      | Distance (m)      | 1.5    | 3     | 4.5   | 6     | 7.5 | 9   | 10.5 | 12  |
| <b>Min. Angle : 38°</b> | Ø Beam (m)        | 1      | 2.1   | 3.1   | 4.1   | 5.2 | 6.2 | 7.2  | 8.3 |
|                         | Light level (lux) | 18 222 | 4 556 | 2 025 | 1 139 | 729 | 506 | 372  | 285 |
| <b>Max. Angle : 57°</b> | Ø Beam (m)        | 1.6    | 3.3   | 4.9   | 6.5   | 8.1 | 9.8 | 11.4 | 13  |
|                         | Light level (lux) | 8 889  | 2 222 | 988   | 556   | 356 | 247 | 181  | 139 |

#### DS 105 15° - 31°

- 2 zoom lenses and condenser optics

Dimensions (A x B x C) : 710 x 340 x 420 mm  
 Net weight : 14 kg  
 Packing : 760 x 370 x 340 mm  
 Gross weight : 15.5 kg  
 12 units per pallet

| 1200 W / 30,000 lm      | Distance (m)      | 2.5    | 5      | 7.5   | 10    | 12.5  | 15    | 17.5 | 20  |
|-------------------------|-------------------|--------|--------|-------|-------|-------|-------|------|-----|
| <b>Min. Angle : 15°</b> | Ø Beam (m)        | 0.7    | 1.3    | 2     | 2.6   | 3.3   | 4     | 4.6  | 5.3 |
|                         | Light level (lux) | 41 600 | 10 400 | 4 620 | 2 600 | 1 660 | 1 160 | 850  | 650 |
| <b>Max. Angle : 31°</b> | Ø Beam (m)        | 1.4    | 2.8    | 4.2   | 5.6   | 6.9   | 8.3   | 9.7  | 11  |
|                         | Light level (lux) | 14 400 | 3 600  | 1 600 | 900   | 580   | 400   | 295  | 225 |
| 1000 W / 26,000 lm      | Distance (m)      | 2.5    | 5      | 7.5   | 10    | 12.5  | 15    | 17.5 | 20  |
| <b>Min. Angle : 15°</b> | Ø Beam (m)        | 0.7    | 1.3    | 2     | 2.6   | 3.3   | 4     | 4.6  | 5.3 |
|                         | Light level (lux) | 33 280 | 8 320  | 3 700 | 2 080 | 1 330 | 925   | 680  | 520 |
| <b>Max. Angle : 31°</b> | Ø Beam (m)        | 1.4    | 2.8    | 4.2   | 5.6   | 6.9   | 8.3   | 9.7  | 11  |
|                         | Light level (lux) | 12 000 | 3 000  | 1 330 | 750   | 480   | 330   | 245  | 190 |

#### DSN 105 11° - 23°

- 2 zoom lenses and condenser optics

Dimensions (A x B x C) : 790 x 340 x 420 mm  
 Net weight : 15.1 kg  
 Packing : 810 x 420 x 340 mm  
 Gross weight : 17.5 kg  
 9 units per pallet

| 1200 W / 30,000 lm      | Distance (m)      | 6     | 9     | 12    | 15    | 18    | 21  | 24  | 27  |
|-------------------------|-------------------|-------|-------|-------|-------|-------|-----|-----|-----|
| <b>Min. Angle : 11°</b> | Ø Beam (m)        | 1.2   | 1.7   | 2.3   | 2.9   | 3.5   | 4   | 4.6 | 5.2 |
|                         | Light level (lux) | 9 720 | 4 320 | 2 430 | 1 560 | 1 080 | 790 | 600 | 480 |
| <b>Max. Angle : 23°</b> | Ø Beam (m)        | 2.4   | 3.7   | 4.9   | 6.1   | 7.3   | 8.5 | 9.8 | 11  |
|                         | Light level (lux) | 3 940 | 1 750 | 990   | 630   | 440   | 320 | 250 | 196 |
| 1000 W / 26,000 lm      | Distance (m)      | 6     | 9     | 12    | 15    | 18    | 21  | 24  | 27  |
| <b>Min. Angle : 11°</b> | Ø Beam (m)        | 1.2   | 1.7   | 2.3   | 2.9   | 3.5   | 4   | 4.6 | 5.2 |
|                         | Light level (lux) | 7 440 | 3 310 | 1 860 | 1 190 | 830   | 610 | 465 | 370 |
| <b>Max. Angle : 23°</b> | Ø Beam (m)        | 2.4   | 3.7   | 4.9   | 6.1   | 7.3   | 8.5 | 9.8 | 11  |
|                         | Light level (lux) | 3 330 | 1 480 | 830   | 530   | 370   | 270 | 210 | 165 |

#### DN 105 9° - 20°

- 2 zoom lenses and condenser optics

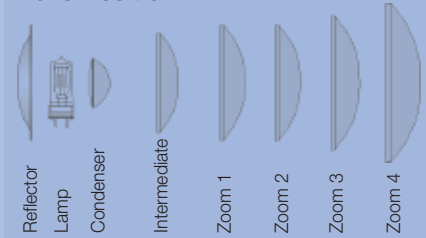
Dimensions (A x B x C) : 920 x 360 x 445 mm  
 Net weight : 18.4 kg  
 Packing : 930 x 420 x 370 mm  
 Gross weight : 21.5 kg  
 9 units per pallet

| 1200 W / 30,000 lm      | Distance (m)      | 6      | 9     | 12    | 15    | 18    | 21    | 24    | 27   |
|-------------------------|-------------------|--------|-------|-------|-------|-------|-------|-------|------|
| <b>Min. Angle : 9°</b>  | Ø Beam (m)        | 0.9    | 1.4   | 1.9   | 2.4   | 2.8   | 3.3   | 3.8   | 4.25 |
|                         | Light level (lux) | 16 670 | 7 410 | 4 170 | 2 670 | 1 850 | 1 360 | 1 040 | 820  |
| <b>Max. Angle : 20°</b> | Ø Beam (m)        | 2.1    | 3.2   | 4.3   | 5.3   | 6.35  | 7.4   | 8.5   | 9.5  |
|                         | Light level (lux) | 4 720  | 2 100 | 1 180 | 760   | 525   | 385   | 295   | 230  |
| 1000 W / 26,000 lm      | Distance (m)      | 6      | 9     | 12    | 15    | 18    | 21    | 24    | 27   |
| <b>Min. Angle : 9°</b>  | Ø Beam (m)        | 0.9    | 1.4   | 1.9   | 2.4   | 2.8   | 3.3   | 3.8   | 4.25 |
|                         | Light level (lux) | 12 200 | 5 430 | 3 060 | 1 960 | 1 360 | 1 000 | 760   | 600  |
| <b>Max. Angle : 20°</b> | Ø Beam (m)        | 2.1    | 3.2   | 4.3   | 5.3   | 6.35  | 7.4   | 8.5   | 9.5  |
|                         | Light level (lux) | 3 610  | 1 605 | 900   | 580   | 400   | 295   | 230   | 180  |

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## Zoom Profile Spotlights 1000 / 1200 W

### Lens Position



| Accessories (specific data sheet available)                  | DVW 105 | DW 105 | DS 105 | DSN 105 | DN 105 | References |
|--|---------|--------|--------|---------|--------|------------|
| Set of 4 cardboard filter frames (185 x 185 mm)              | •       | •      | •      | •       |        | PFC/185    |
| Set of 4 cardboard filter frames (245 x 245 mm)              |         |        |        |         | •      | PFC/245    |
| Metal filter frame (185 x 185 mm)                            | •       | •      | •      | •       |        | PFM/185    |
| Metal filter frame (245 x 245 mm)                            |         |        |        |         | •      | PFM/245    |
| Safety grid (185 x 185 mm)                                   | •       | •      | •      | •       |        | GR/185     |
| Safety grid (245 x 245 mm)                                   |         |        |        |         | •      | GR/245     |
| "A" size gobo holder with retention ring                     | •       | •      | •      | •       | •      | SP-GO/A    |
| "B" size gobo holder   | •       | •      | •      | •       | •      | SP-GO/B    |
| Iris diaphragm Ø 75  | •       | •      | •      | •       | •      | OR/75      |
| Iris diaphragm Ø 80  | •       | •      | •      | •       | •      | OR/80      |
| Iris diaphragm Ø 80 with black-out                           | •       | •      | •      | •       | •      | OR/80/BO   |
| Glass diffuser 98 x 98 mm for mounting on gobo holder type A | •       | •      | •      | •       | •      | VD/98      |
| Glass diffuser 120 x 120 mm for mounting on zoom lens        | •       | •      | •      | •       | •      | VD/120     |
| Hook clamp for Ø 35 to 50 mm tubes                           | •       | •      | •      | •       | •      | A20        |
| Hook clamp for Ø 35 to 50 mm tubes                           | •       | •      | •      | •       | •      | A25        |
| Hook clamp for Ø 45 to 60 mm tubes                           | •       | •      | •      | •       | •      | A30        |
| 1.2 m spotlight safety cable                                 | •       | •      | •      | •       | •      | CAS 120/N  |
| Slanted yoke   | •       | •      | •      | •       | •      | LC/1       |
| DIN spigot   | •       | •      | •      | •       | •      | PIVOT DIN  |

| Spare Parts  |   |   |   |   |   | References   |
|--|---|---|---|---|---|--------------|
| 2 m cable (2 x 1.5 + 1.5 mm <sup>2</sup> ) without male plug | • | • | • | • | • | C. EUROPE    |
| CEE 22 female plug   | • | • | • | • | • | CEE22/PLUG   |
| GX9.5 lampholder kit   | • | • | • | • | • | KIT/GX9,5/D1 |
| Ø 68 mm condenser lens                                       | • | • | • | • | • | LDOC68       |
| Ø 89 mm intermediate PC lens                                 | • | • | • | • | • | PC89/RC70,4  |
| Ø 114 mm zoom 1 PC lens                                      |   |   | • |   | • | PC114/RC150  |
| zoom 2 PC lens   | • |   |   |   |   | PC114/RC150  |
| zoom 4 PC lens   | • |   |   |   |   | PC114/RC150  |
| Ø 114 mm zoom 1 PC lens                                      | • | • |   |   |   | PC114/RC163  |
| Ø 114 mm zoom 1 PC lens                                      |   |   |   | • |   | PC114/RC216  |
| zoom 2 PC lens   |   | • |   |   |   | PC114/RC216  |
| Ø 152 mm zoom 2 PC lens                                      |   |   | • |   |   | PC152/RC163  |
| zoom 3 PC lens   | • | • |   |   |   | PC152/RC163  |
| Ø 152 mm zoom 2 PC lens                                      |   |   |   | • |   | PC152/RC190  |
| Ø 203 mm zoom 2 PC lens                                      |   |   |   |   | • | PC203/RC245  |
| Set of 4 beam shaping shutters                               | • | • | • | • | • | CM/D105-205  |
| Retention ring for gobo size A                               | • | • | • | • | • | RR/GO/A      |

### ADB - Your Partner for Light

#### Belgium N.V. ADB-TTV Technologies S.A.

(Group Headquarters) Leuvensesteenweg 585, B-1930 Zaventem  
Tel : 32.2.709.32.11, Fax : 32.2.709.32.80, E-Mail : adb@adblighting.com

#### Deutschland ADB GmbH

Boschstrasse 3, D-61239 Ober-Mörlen  
Tel : 49.6002.93.933.0, Fax : 49.6002.93.933.33, E-Mail : info@adblighting.de

#### France ADB S.A.S.

Sales Office: 168/170, boulevard Camélinat F-92240 Malakoff  
Tel : 33.1.41.17.48.50, Fax : 33.1.42.53.54.76, E-Mail : adb.fr@adblighting.com

Factory & Group Logistics Centre: Zone industrielle Rouvroy F-02100 Saint-Quentin  
Tel : 33.3.23.06.35.70, Fax : 33.3.23.67.66.56, E-Mail : adb.fr@adblighting.com

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