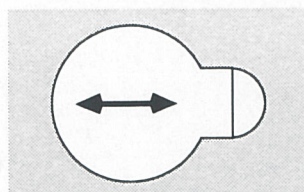


DSN 105

Zoom Profile Spotlight with Condenser Optics
11° - 23° 1000 / 1200 W



ADB
A Siemens Company

DE 5580

The DSN 105 belongs to ADB's EUROPE range of professional theatre spotlights intended to fulfil the requirements of the most demanding Lighting Designers.

Designed around a 1000 / 1200 W tungsten halogen lamp, this variable angle profile spotlight provides a high intensity, sharp edge beam from long distance over a useful range of 11° - 23°.

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

With a 1200 W lamp, the DSN 105 will yield 2,000 Lux at 13 m and still 1,000 Lux at 19 m.

The use 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.

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

A front cassette allows one-hand insertion of a colour frame.

The DSN 105 is rebalanceable in any position by sliding the yoke along 2 slots provided over the full length of the unit. The tiltlock mechanism is efficient and comfortable. The yoke can be adjusted to a low or high position, a useful facility when space is limited.

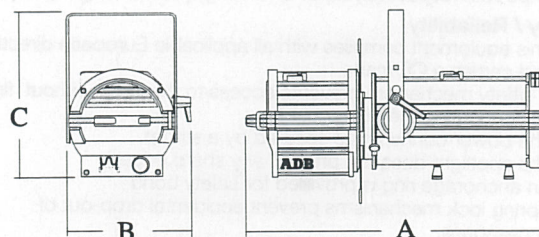
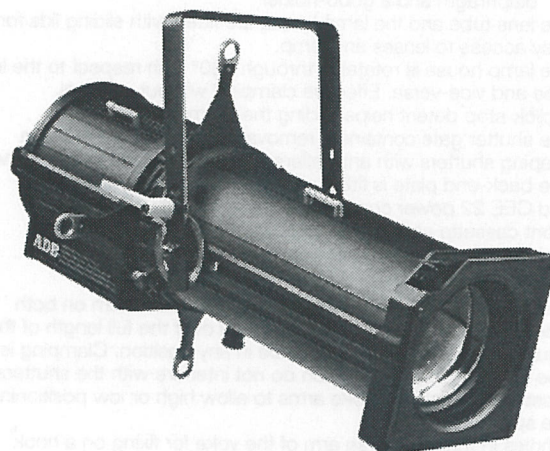
The lamp house which contains the shutter set and the effects slot is rotatable through 360° with respect to the lens tube and vice-versa. Depending on the yoke position, the operator can either rotate the projected image, or move the focus controls to a preferred position, or correct the lamp position 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, this spotlight is equipped with several safety features which make it very safe to operate.

The standard unit is fitted with a 2 m silicone rubber power cable with open ends, 4 beam shaping shutters and a metal colour frame.

Options: pole operation, motorization.



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

Housing

- The housing is built in 2 sections:
 - The lens tube fitted with a front cassette which provides 2 sets of runners for one-hand insertion of 185 x 185 mm (DIN 15560) accessories. The cassette is designed for preventing light spill.
 - 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 cassette and back-end plate of injected aluminium.
- Main body of extruded aluminium sections.

Positioning Mechanism

- A strong steel yoke, with positive titlock 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 do 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 (option).

Optical System

- Double spherical reflector of pure, polished, anodised aluminium.
- Aspherical condenser lens.
- Intermediary spherical lens.
- 11 - 23° zoom optics consisting of 2 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.
- 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 with CEE 22 female connector on one end (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.
- Overall finish in non-reflective, heat and wear resisting black paint

| Lamps | 1000 W | | 1200 W | |
|------------------------|--------|------|--------|------|
| Life exp. (h) | 200 | 750 | 200 | 400 |
| Colour Temperature (K) | 3200 | 3000 | 3200 | 3000 |

ADB - Your Partner for Light

| | | |
|---------------|---------------|---|
| Belgium | N.V. ADB S.A. | (Group Headquarters) Leuvensesteenweg 585, B-1930 Zaventem Tel : +32 / 2 / 722.17.11, Fax : +32 / 2 / 722.17.64 - e-mail : adb-ttv @ p1.bru1.siemens.be |
| Deutschland | ADB GmbH | Dieselstraße 4, D-63.165 Mühlheim am Main Tel : 06108 / 66204, Fax : 06108 / 66205 Büro Nord : Tel : 05331 / 469329, Fax : 05331 / 469177 • Büro Ost : Tel : 030 / 670 44 201, Fax : 030 / 670 44 200 • Büro Süd-West : Tel : 06509 / 8570, Fax : 06509 / 8560 |
| France | ADB S.A. | rue de la Vanne 47, F-92120 Montrouge / Paris, Tel : 1 / 41.17.48.50, Fax : 1 / 42.53.54.76 |
| Great Britain | LSI | Siemens House, D Block, Windmill Road, Sunbury-on-Thames, Middlesex TW 16 7HS Tel : 01932 / 75.28.85, Fax : 01932 / 75.28.83 |

Photometric Data

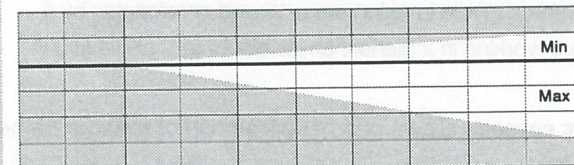
(Typical Values)

| | | | | | | | | |
|-----------------------------|------|------|------|--------------------|------|-----|-----|-----|
| Lamp : 220V, 3200K, biplane | | | | 1200 W / 30,000 lm | | | | |
| Minimum Angle : 11° | | | | | | | | |
| Throw distance (m) | 6 | 9 | 12 | 15 | 18 | 21 | 24 | 27 |
| Beam Ø (m) | 1.2 | 1.7 | 2.3 | 2.9 | 3.5 | 4 | 4.6 | 5.2 |
| Light level (lux) | 9720 | 4320 | 2430 | 1560 | 1080 | 790 | 600 | 480 |



| | | | | | | | | | |
|---------------------|------|------|-----|-----|-----|-----|-----|-----|--|
| Maximum Angle : 23° | | | | | | | | | |
| Throw distance (m) | 6 | 9 | 12 | 15 | 18 | 21 | 24 | 27 | |
| Beam Ø (m) | 2.4 | 3.7 | 4.9 | 6.1 | 7.3 | 8.5 | 9.8 | 11 | |
| Light level (lux) | 3940 | 1750 | 990 | 630 | 440 | 320 | 250 | 196 | |

| | | | | | | | | |
|-----------------------------|------|------|------|--------------------|-----|-----|-----|-----|
| Lamp : 220V, 3200K, biplane | | | | 1000 W / 26,000 lm | | | | |
| Minimum Angle : 11° | | | | | | | | |
| Throw distance (m) | 6 | 9 | 12 | 15 | 18 | 21 | 24 | 27 |
| Beam Ø (m) | 1.2 | 1.7 | 2.3 | 2.9 | 3.5 | 4 | 4.6 | 5.2 |
| Light level (lux) | 7440 | 3310 | 1860 | 1190 | 830 | 610 | 465 | 370 |



| | | | | | | | | | |
|---------------------|------|------|-----|-----|-----|-----|-----|-----|--|
| Maximum Angle : 23° | | | | | | | | | |
| Throw distance (m) | 6 | 9 | 12 | 15 | 18 | 21 | 24 | 27 | |
| Beam Ø (m) | 2.4 | 3.7 | 4.9 | 6.1 | 7.3 | 8.5 | 9.8 | 11 | |
| Light level (lux) | 3330 | 1480 | 830 | 530 | 370 | 270 | 210 | 165 | |

Accessories

- Set of 4 cardboard filter frames (185 x 185 mm)
- Metal filter frame (185 x 185 mm)
- Wiremesh safety guard (185 x 185 mm)
- Gobo holder for gobo A with retention ring
- Gobo holder for gobo B
- Gobo A - Ø 100 mm
- Gobo B - Ø 85 mm
- Iris diaphragm Ø 75 mm
- Iris diaphragm Ø 80 mm
- Iris diaphragm Ø 80 mm with black-out
- Suspension hook Ø 35 à 50 mm
- Suspension hook Ø 35 à 50 mm
- Suspension hook Ø 45 à 60 mm
- Safety chain 1.2 m
- Safety cable 1.2 m
- Slanted yoke
- Light beam cone
- Glass diffuser 98 x 98 mm - for gobo holder type A
- Glass diffuser 120 x 120 mm - for zoom

PFC/185
PFM/185
GR/185
SP/GO/A
SP/GO/B
GO/A
GO/B
OR/75
OR/80
OR/80/BO
A20
A25
A30
CHAS 120
CAS 120
LC/1
CL1
VD/98
VD/120