DR-115DSP

DATASHEET



The D&L DR-115DSP is a professional two-way active full-range loudspeaker developed for stage, event, mobile sound and fixed-installation applications. Its integrated Class-D amplification and DSP processing provide a self-contained system built around a 15-inch low-frequency driver and a 1.75-inch compression driver.

The system delivers 1,400 W peak power, comprising 1,000 W peak for the low-frequency section and 400 W peak for the high-frequency section. Published electro-acoustic performance includes a 45 Hz to 20 kHz frequency response, a maximum SPL of 130 dB at 1 m, and nominal 90° horizontal by 60° vertical coverage.

The enclosure is moulded from a polypropylene-based composite with internal reinforcement ribs to reduce vibration and deformation at high output. A steel grille protects the front, while three integrated carrying handles, a 35 mm pole-mount socket and two M10 suspension points support transport and installation. The rear cabinet profile also permits stage-monitor operation.

Key Features

- Professional 2-way active full-range loudspeaker with integrated Class-D amplification and DSP
- 15" LF driver with 2.5" voice coil and 1.75" compression driver with 1.0" throat / 1.75" voice coil
- 1,400 W peak system power: 1,000 W LF + 400 W HF
- 45 Hz - 20 kHz frequency response; 130 dB maximum SPL at 1 m; 90° × 60° nominal coverage
- DSP crossover at 1,600 Hz with frequency alignment, phase control, soft limiting and loudspeaker protection
- FIR digital filtering for consistent spatial response, flat phase and low processing latency
- Moulded polypropylene-composite enclosure with internal reinforcement ribs and steel protective grille
- Fanless natural-convection cooling; 35 mm pole socket; 2 × M10 suspension points; rear wedge for monitor use

Applications

- **Professional stages and live shows**
- **Auditoriums and multi-purpose halls**
- **Mobile sound and rental systems**
- **Event centres and cultural venues**
- **Stage monitoring applications**
- **Fixed professional sound installations**

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Technical Data

Speaker type	**2-way active full-range loudspeaker**
Model	**DR-115DSP**
Amplification / DSP	**Integrated Class-D amplifier with DSP**
LF section	**1 × 15" LF driver, 2.5" voice coil**
HF section	**1 × 1.75" compression driver, 1.0" throat, 1.75" voice coil**
Frequency response	**45 Hz - 20 kHz**
Maximum SPL	**130 dB @ 1 m**
Coverage (H × V)	**90° × 60°**
Peak power	**1,400 W total; LF 1,000 W / HF 400 W**
DSP crossover / FIR	1,600 Hz; FIR digital filtering
DSP functions	Frequency alignment, phase control, soft limiting and speaker protection
Protection / cooling	Thermal + RMS protection; natural-convection cooling, fanless
LF enhancement	Rear-activated low-frequency enhancement with cone-excursion control
Signal input	Balanced / unbalanced XLR + 6.35 mm input
Signal output	XLR link output
Input sensitivity	-2 dBu / +4 dBu; microphone input -32 dBu
Cabinet / grille	Moulded polypropylene-composite cabinet with internal bracing; steel grille
Handling	1 top handle + 1 handle on each side
Mounting / monitor use	35 mm pole socket; 2 × M10 suspension points; rear wedge for monitor use
Dimensions (H × W × D)	708 × 438 × 400 mm
Weight / packing	20 kg net; 23 kg packed; 750 × 500 × 440 mm
AC versions	**220-240 V / 100-120 V**
Management standards	ISO 9001:2015 / ISO 14001:2015 / ISO 45001:2018, or equivalent valid certification

Product Views



front view



front / side view



rear view



side / rear view

Architect Specification

The loudspeaker shall be a professional two-way active full-range system with an integrated Class-D power amplifier and internal DSP processing. It shall be intended for stage, auditorium, event, mobile and fixed-installation sound applications.

The low-frequency section shall employ one 15-inch driver with a 2.5-inch voice coil. The high-frequency section shall employ one 1.75-inch compression driver with a 1.0-inch throat and a 1.75-inch voice coil. The high-frequency diaphragm shall be a heat-resistant polyimide dome.

The system shall provide 1,400 W peak output, comprising 1,000 W peak for the low-frequency section and 400 W peak for the high-frequency section. Frequency response shall be 45 Hz to 20 kHz. Maximum SPL shall be 130 dB at 1 m and nominal coverage shall be 90 degrees horizontal by 60 degrees vertical.

DSP crossover frequency shall be 1,600 Hz. Processing shall provide frequency alignment, phase control, soft limiting and loudspeaker protection. FIR digital filtering shall be employed to support consistent spatial response, flat phase and low processing latency. Thermal and RMS protection shall be provided.

Signal input shall accept balanced or unbalanced connection through XLR and 6.35 mm formats, with an XLR link output. Input sensitivity shall include -2 dBu and +4 dBu settings, with microphone input sensitivity of -32 dBu. A rear-activated low-frequency enhancement function shall operate together with cone-excursion control.

The enclosure shall be moulded from a polypropylene-based composite and shall incorporate internal reinforcement ribs to reduce vibration and deformation at high output. The front shall be protected by a steel grille. Cooling shall be by natural convection without a fan. The low-frequency section shall be designed for stable high-current operation, low distortion and effective heat dissipation, and shall undergo a continuous 200-hour harsh-load test prior to factory release. The high-frequency assembly shall use an improved bonding process and a redesigned phase plug to improve clarity and transient response.

The cabinet shall provide one carrying handle on the top and one on each side, a 35 mm pole-mount socket and two M10 suspension points. The rear enclosure profile shall permit operation as a stage monitor. Overall dimensions shall be 708 mm high by 437 mm wide by 389 mm deep. Net weight shall be 19.6 kg. Packed weight shall be 23 kg with packed dimensions of 750 × 500 × 440 mm.

AC supply versions shall be available for 220-240 V and 100-120 V operation. The product shall be the D&L DR-115DSP active full-range loudspeaker.

References

Full technical data and loudspeaker presets are available on request – dailycompanyltd@gmail.com

Product website:

https://dlaudio.vn/loa-lien-cong-suat-dr-115-dsp.html

Products are continually improved. All specifications are therefore subject to change without notice.