ENLIGHTENED.
THE NEW GENERATION INSTALLATION AMPLIFIERS.
PLANNING RELIABILITY
The d&b amplifiers are designed to drive d&b loudspeakers. They are the beating heart of the d&b System reality, incorporating Digital Signal Processing (DSP) for comprehensive loudspeaker management, switchable filter functions, remote capabilities and user-definable controls, to meet the requirements of every task.

d&b loudspeakers are known for their constant directivity control down to low frequencies, sonic consistency and full bandwidth performance. The d&b ArrayCalc simulation software accurately predicts the performance of a d&b system. This software enables users to precisely foresee how d&b loudspeakers will interact with their environment. Amplifier settings can be stored as AmpPresets, ready to be recalled depending on application and performance requirements.

INVESTMENT SECURITY
The comprehensive DSP capabilities of the 10D and 30D ensures the amplifiers are prepared for the future. With advanced user-definable equalization and delay functionalities, they remove the need for external signal processors. Built on the same DSP platform as the d&b D20 and D80 amplifiers, these devices have additional processing capacity for firmware updates and even more new features.

The DSP platform has the power to optimize d&b line arrays using the ArrayProcessing function. This optional feature within ArrayCalc applies a combination of FIR and IIR filters to each loudspeaker in a line array, to control and optimize the spectral and spatial balance, achieving truly consistent results across the whole audience listening area.

The 10D and 30D are future ready with a value promise and feature set tailored for installation.

RIDER FRIENDLINESS
Familiarity, confidence and trust are key in any relationship. The d&b audiotechnik system integration principles, quality of construction, technology, and standard of service, deliver sound reinforcement systems for high quality speech and music reproduction in public places. The d&b system approach, including loudspeakers, amplifiers and software, ensures reliable, repeatable and recognizable results. For that reason, d&b audiotechnik sound reinforcement systems appear on professional riders worldwide. That’s why d&b is used globally in rental and installation markets for events, multimedia, musicals, concert halls, theatres, opera houses, broadcast and everything from the smallest conference room to the largest stadium.
ARRA yPROCESSING

ArrayProcessing ensures that every member of the audience benefits from the same remarkable quality of sound.

Optimizes the level and tonal balance of the y, v and J-Series arrays.

Applies a target frequency response to each array to ensure the same sonic result regardless of Series type, column length or splay settings.

DIGITAL SIGNAL PROCESSING (DSP)

Comprehensive loudspeaker management and configurations for d&b loudspeakers.

Switchable filter functions.

Two 16-band equalizers with parametric, notch, shelving and asymmetric filters as well as up to ten seconds of delay for each channel.

FUTURE READY INVESTMENT

- Powerful Digital Signal Processing capabilities ready for future d&b firmware updates.
- New levels of interoperability through OCA.
- Controlled via Ethernet using the Open Control Architecture (OCA) protocols offering increased bandwidth and speed.

INSTALL FEATURES

- Flexible input matrix for all eight inputs, which can be routed and summed to any of the four outputs.
- Advanced system status monitoring.
- Independent input gain controls on each input channel.
- Programmable five-pin General Purpose Input/Output ports (GPIO) provide control and detection functions using external devices.
- General fault contact.

CONTROL AND OPERATION

- LED indicators to show amplifier status.
- R1 Remote control software enables management of a complete system from a central location.
- R1 provides different levels of access as well as AmpPresetS, meaning system configurations and levels can be recalled depending on application requirements.
- Individual devices can be controlled using a web browser on a laptop, tablet or smartphone.

EFFICIENCY

- Active Power Factor Correction ensures high efficiency.
- Class D amplifier technology minimizes power waste.
- Auto standby feature.

A RELIABLE AND FUTURE PROOF SOLUTION.

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REMOTE CONTROL

Providing comprehensive capabilities is one thing, but gaining access to these sophisticated functions is an entirely different ball game. That’s why the 10D and 30D amplifiers offer two intuitive user interfaces with straightforward operation to get the job done with maximum efficiency. The integrated web interface displays the intuitive touchscreen interface of the D20 and D80 amplifiers in a web browser window. Using a wireless access point, an individual 10D or 30D amplifier can be controlled using a tablet or smartphone device. For centralized control, the R1 Remote control software presents the system graphically, faders and buttons placed just as required, channel by channel, loudspeaker by loudspeaker, all can be grouped, functionally as well as visually.

FOR PERMANENT INTEGRATION

Visualize the d&b system approach; integrated sound reinforcement systems that actually are more than the combination of parts: an entirety where each fits all. Every element is tightly specified, precisely aligned and carefully integrated to achieve maximum efficiency. Imagine this system approach with capabilities specifically tailored for installations, developed together with precision accessories for flexible, discreet deployment. Whether an aesthetically sensitive room, a rider driven performance space, a particularly reverberant area, or a multipurpose venue, a d&b installation solution delivers optimal sonic results with a visually unobtrusive design. All of this is efficiently achieved through the d&b workflow: a seamless process from simulation and prediction to remote control and management.

THE WORKFLOW

Using the d&b ArrayCalc simulation software, a comprehensive model of the venue is created. This file includes the choice of loudspeakers, placement, levels and configuration information, and accurately predicts the exact performance of the system.

All configuration data defined in ArrayCalc is then integrated within the R1 Remote control software, which creates a graphical user interface for the remote control and monitoring of a complete system from a central location. All system data is transferred to the d&b amplifiers ensuring the simulation’s prediction is accurately brought to life.

INTUITIVE INTERFACES.

FOR PERMANENT INTEGRATION.

TAILORED FOR INSTALLATION.
**A GOOD CHOICE, NO MATTER WHICH WAY YOU LOOK AT IT.**

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**10D AND 30D AMPLIFIERS**

<table>
<thead>
<tr>
<th></th>
<th>10D</th>
<th>30D</th>
</tr>
</thead>
<tbody>
<tr>
<td>Input channels</td>
<td>4 AES and 4 analog</td>
<td>4 AES and 4 analog</td>
</tr>
<tr>
<td>Output channels</td>
<td>4</td>
<td>4</td>
</tr>
<tr>
<td>Output connectors</td>
<td>Phoenix Euroblock</td>
<td>Phoenix Euroblock</td>
</tr>
<tr>
<td>Output routing</td>
<td>Dual Channel, MA-TOP/A and 2-Way Active</td>
<td>Dual Channel, MA-TOP/A and 2-Way Active</td>
</tr>
<tr>
<td>Configuration</td>
<td>Current @ 1kHz and 50 Hz (except J-Series, v-Series, M2 and B2-Sub)</td>
<td>Current @ 1kHz and 50 Hz (except J-Series, v-Series, M2 and B2-Sub)</td>
</tr>
<tr>
<td>Rated output power</td>
<td>4 x 350 W into 8 Ω (THD+H &lt; 0.5%, 12 dB crest factor)</td>
<td>4 x 800 W into 8 Ω (THD+H &lt; 0.5%, 12 dB crest factor)</td>
</tr>
<tr>
<td>Cable compensation</td>
<td>LoadMatch</td>
<td>LoadMatch</td>
</tr>
<tr>
<td>Latency</td>
<td>0.3 ms</td>
<td>0.3 ms</td>
</tr>
<tr>
<td>Delay</td>
<td>10 sec/3440 m</td>
<td>10 sec/3440 m</td>
</tr>
<tr>
<td>User equalizer (per channel)</td>
<td>2 x 16-band</td>
<td>2 x 16-band</td>
</tr>
<tr>
<td>Power supply</td>
<td>Universal range switched mode power supply with active PFC</td>
<td>Universal range switched mode power supply with active PFC</td>
</tr>
<tr>
<td>Mains voltage</td>
<td>100 - 240 V, 50 - 60 Hz</td>
<td>100 - 240 V, 50 - 60 Hz</td>
</tr>
<tr>
<td>Dimensions (H x W x D)</td>
<td>2 RU x 19&quot; x 435 mm</td>
<td>2 RU x 19&quot; x 435 mm</td>
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<tr>
<td>Weight</td>
<td>10.6 kg</td>
<td>10.6 kg</td>
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<tr>
<td>Weight lb</td>
<td>23.4</td>
<td>23.4</td>
</tr>
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