ENLIGHTENED.
THE NEW GENERATION INSTALLATION AMPLIFIERS.

THE 10D AND 30D AMPLIFIERS.

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.

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.

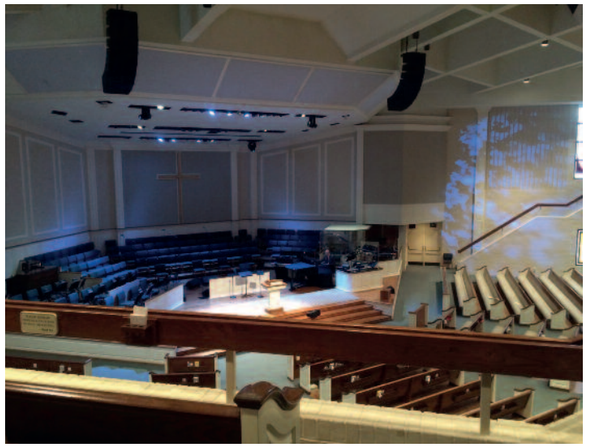
d&b loudspeakers are known for their constant directivity control down to low frequencies, sonic consistency and full bandwidth performance. The d&b ArrayCalc simulation software accurately predicts the performance of a d&b system. This software enables users to precisely foresee how d&b loudspeakers 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.



A RELIABLE AND FUTURE PROOF SOLUTION.

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

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

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

NEW
10D
30D

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

ARRAY PROCESSING

• 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

TAILORED FOR INSTALLATION.

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.

d&b ArrayCalc simulation software | d&b R1 Remote control software | d&b amplifiers | d&b loudspeakers

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.

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.

Integrated web interface

R1 Remote control software

A GOOD CHOICE,
NO MATTER WHICH WAY YOU LOOK AT IT.

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10D AND 30D AMPLIFIERS

	10D	30D
Input channels	4 AES and 4 analog	4 AES and 4 analog
Output channels	4	4
Output connectors	Phoenix Euroblock	Phoenix Euroblock
Output routing	Dual Channel, Mix TOP/SUB and 2-Way Active	Dual Channel, Mix TOP/SUB and 2-Way Active
Configurations	Current d&b loudspeakers and linear mode except J-Series, V-Series, M2 and B2-SUB	Current d&b loudspeakers and linear mode
Rated output power (THD+N < 0.5%, 12 dB crest factor)	4 x 350 W into 8 Ω 4 x 700 W into 4 Ω	4 x 800 W into 8 Ω 4 x 1600 W into 4 Ω
Cable compensation	LoadMatch	LoadMatch
Latency	0.3 ms	0.3 ms
Delay	10 sec/3440 m	10 sec/3440 m
User equalizer (per channel)	2 x 16-band	2 x 16-band
Remote	OCA via Ethernet/CAN	OCA via Ethernet/CAN
Power supply	Universal range switched mode power supply with active PFC	Universal range switched mode power supply with active PFC
Mains voltage	100 - 240 V, 50 - 60 Hz	100 - 240 V, 50-60 Hz
Dimensions (H x W x D)	2 RU x 19" x 435 mm	2 RU x 19" x 435 mm
Weight kg	10.6	10.6
Weight lb	23.4	23.4

More at www.dbaudio.com

d&b audiotechnik