

Spec Sheet

AC 26N



Digital Audio Controller for
Loudspeakers Processing



Applications

- Live sound for rental application
- Portable PA, ballrooms, live theatre
- Fixed installations in clubs, theaters
- House of worship and corporate A/V professionals

Features

- 28/56 bit DSP processing
- Parametric EQ, Delay, Phase, Compressor/ Limiter, Level control
- 24 bit - 96 kHz AD/DA Converters
- 2 Balanced INs x 6 Balanced OUTs with flexible routing
- 2 x AES/EBU INs and 2 x AES/EBU OUTs
- RDNNet hardware interface
- Front panel or USB / RDNNet remotable using dBTechnologies software

Description

The new audio digital processor AC26N has been designed for fixed and touring installations, and allows you to control any professional audio system.

Thanks to the quality of converters, the powerful processing and the compatibility with RDNNet remote control protocol, the AC26N is an extremely versatile tool that allows you to manage in real-time active and passive systems or act as a matrix for a loudspeaker system managing, solving tons of issues typical of live music applications.

It uses the most modern technology with 28/56 bit processors and high performance 24 bits -

96 kHz AD/DA converters.

The functions available are: input and output levels, delay, polarity, 12 equalization bands for each input and output channel, multiple crossover and high performance limiter/ compressor.

The control resolution of the filters is 1Hz. Inputs and outputs can be set according to many configurations to meet any need.

AC26N can be controlled in real time and all its parameters can be edited on its front panel or through a computer, thanks to the intuitive graphic interface of the DVA Network software and a dedicated RDNNet or USB network connection.

The CPU and DSP software update, via PC, allows to keep the device up to date. It is possible to save and recall 32 preset configurations.

The AC26N can be remotely controlled using a pc-based software. Communication can be preformed using USB cable or connecting the AC26N into complex RDNNet networks via Control 2 or Control 8 RDNNet Hub.

This proprietary communication protocol has been developed for receiving and sending data. This connection allows real-time monitoring of loudspeaker parameters, such as output power, amp temperature, limiter status, etc...

It is also possible to select different equalizations or create new ones, set the desired volume levels using the specific plug-in.

It is recommended to download DVA Network free software directly from dB Technologies website (www.dbtechnologies.com), in the special section DOWNLOAD «Software & Controller».

AC 26N

Technical Specifications

Audio Performance

Frequency Response:	+/- 0.1dB (20 to 30kHz)
Dynamic Range:	116dB typ
CMMR:	> 60dB (50 to 10kHz)
Crosstalk:	< -100dB
Distortion:	0.002% (1kHz @+4dBu)

Digital Audio Performance

Processor:	DSP 28/56-bit
Data processing Frequency:	24-bit BURR BROWN
Analog converters:	24-bit BURR BROWN
Propagation Delay:	1.5ms
Storing configurations:	32 presets

Controls

Display:	graphic LCD
Buttons/Controls	ESC - MENU - FUNCTIONS SELECTION - ENTER

Inputs / Outputs

Analog Inputs / Outputs	n°2 x XLR (3 pole female) / n°6 x XLR (3 pole male)
Digital Input	n°1 x XLR (3 pole female) - SPDIF-AES/EBU (AES3)
Digital Output	n°1 x XLR (3 pole male) - Compliant with the input standard
RDnet Inputs/Output	n°2 x XLR RJ45 (CAT 5 cable)
USB	B-Type

Sound Control Parameters

Gain	-80dB to +20dB (step 0.1dB)
Delay Input / Outputs	0 to 72.9ms (step 0.1 ms)
Phase Rotation	0° - 180°

Compression

Threshold	-80dB a +20dB (step 0.1dB)
Ratio	1:1 to Inf:1 (step 0.01)
Output gain	0dB to 40dB (step 0.1dB)
Attack time	1mS to 1000mS (step 0.1mS)
Release time	1mS to 1000mS (step 0.1mS)
Hold time	1mS to 1000mS (step 0.1mS)

Equalizers

12 equalizers for each input and output	
Type:	PEQ (parametric), Hi-shelf, Lo-shelf
Frequency	20Hz to 20KHz (step 1Hz)
Gain	-30dB to +15dB (step 0.01dB)
Band	0.05dB to 2dB (step 0.01dB) - only with PEQ

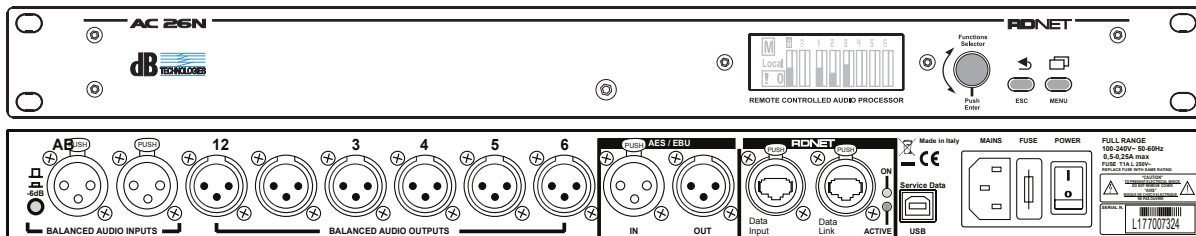
Crossover Filters

Filter	Linkwitz Riley,
Type:	HP High-pass, LP Low-pass
Slope	12dB/oct - 24dB/oct - 48dB/oct
Cut-Off Frequency	5Hz to 20KHz (step of 1Hz)
Power Supply	Full-range 100-240Vac / 50-60Hz
Dimension (WxHxD)	430/482 x 43 x 130 mm - 17/19 x 1.7 x 5.1 inch.
Weight	1.9Kg - 4.2 lbs.

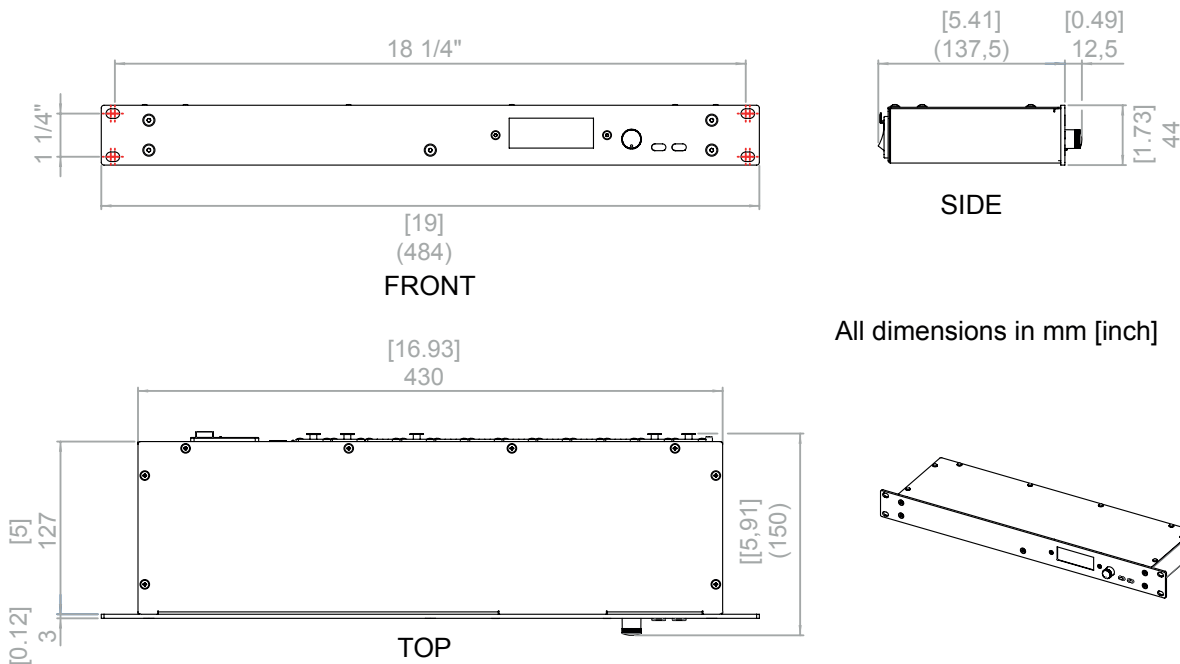
AC 26N

Technical Specifications

Front / Rear Panels



Overall Dimensions



Accessories

RJ45-RJ45-75	RJ45-RJ45 link cable (75cm) for RDNet-equipped devices
RJ45-RJ45-150	RJ45-RJ45 link cable (150cm) for RDNet-equipped devices
RDC-45F	RJ45 to XLR 3 poles female conversion cable (6 cm)
RDC-45M	RJ45 to XLR 3 poles male conversion cable (6 cm)

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