dBTechnologies

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
- RDNet hardware interface
- Front panel or USB / RDNet 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
RDNet 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 RDNet 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 RDNet networks via
Control 2 or Control 8 RDNet 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».

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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

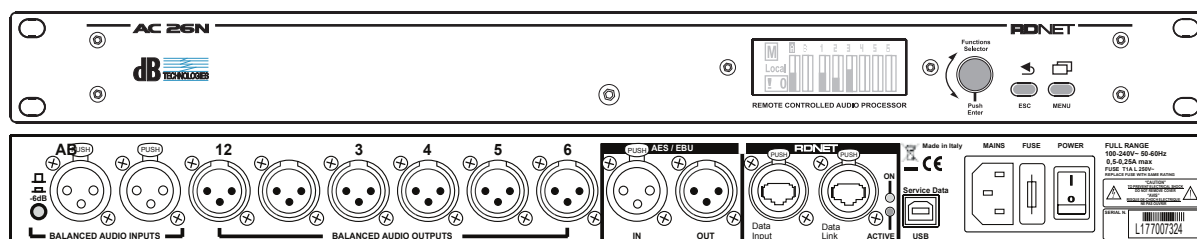| 12 equalizers for each input and output	
Type:	PEQ (parametric), Hi-shelf, Lo-shelf
Frequency	20Hz to 20KHz (step 1Hz)
Gain	-30dB to +15dB (step 0.01dB)
Band	0.05dB to 2dB (step 0.01dB) - only with PEQ

Crossover Filters

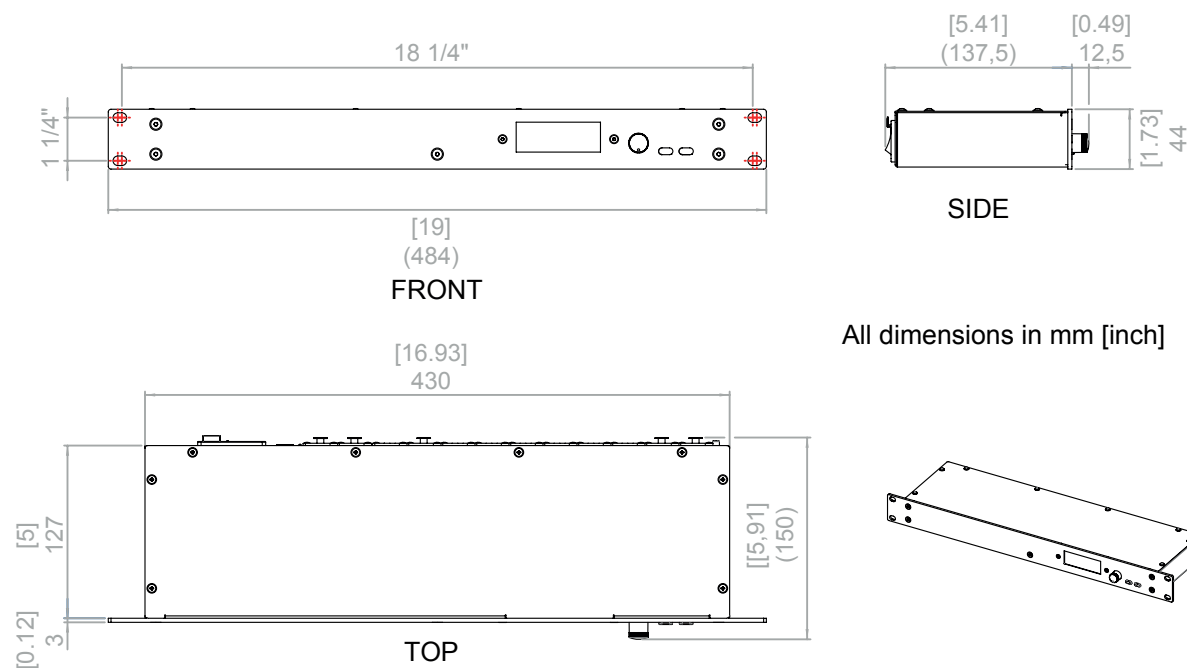|	
Filter	Linkwitz Riley,
Type:	HP High-pass, LP Low-pass
Slope	12dB/oct - 24dB/oct - 48dB/oct
Cut-Off Frequency	5Hz to 20KHz (step of 1Hz)
Power Supply	Full-range 100-240Vac / 50-60Hz
Dimension (WxHxD)	430/482 x 43 x 130 mm - 17/19 x 1.7 x 5.1 inch.
Weight	1.9Kg - 4.2 lbs.

AC 26N
Technical Specifications

Front / Rear Panels

Overall Dimensions

FRONT

18 1/4"

1 1/4"

[19]
(484)

SIDE

[5.41]
(137,5)

[0.49]
12,5

[1.73]
44

TOP

[16.93]
430

[5]
127

[0.12]
3

[5,91]
(150)

All dimensions in mm [inch]

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.

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