

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
- 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».

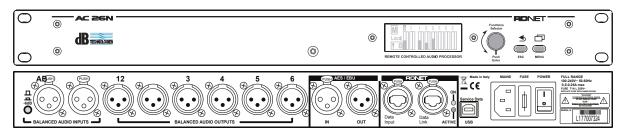
AC 26N Technical Specifications

Audio Performance

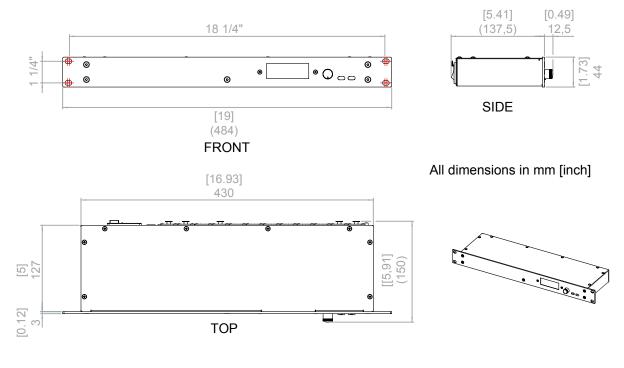
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Digital Inputn°1 x XLR (3 pole female) - SPDIF-AE5/EBU (AES3)Digital Outputn°1 x XLR (3 pole male) - Compliant with the input standardRDnet Inputs/Outputn°2 x XLR RJ45 (CAT 5 cable)USBB-TypeSound Control ParametersGain-80dB to +20dB (step 0.1dB)Delay Input / Outputs0 to 72.9ms (step 0.1 ms)Phase Rotation0° - 180°CompressionThresholdRatio1:1 to Inf:1 (step 0.01)Output gain0dB (step 0.1dB)Attack time1mS to 1000mS (step 0.1mS)Release time1mS to 1000mS (step 0.1mS)Hold time1mS to 1000mS (step 0.1mS)EqualizersI a equalizers for each input and output Type: Frequency GainPEQ (parametric), Hi-shelf, Lo-shelf 20Hz to 20KHz (step 1.1dB) o.05dB to 2dB (step 0.01dB) o.05dB to 2dB (step 0.01dB) o.01gB in 0.05dB to 2dB (step 0.01dB) o.05dB to 2dB (step 0.01dB) o.05dB to 2dB (step 0.01dB) o.01gB in 152dB (Step 0.01dB) o.01gB in 152dB (Step 0.01dB) o.01gB in 152dB (Step 0.01dB) o.01gB in 152dB (Step 0.01dB) o.05dB to 2dB (step 0.01dB) o.01gB in 152dB (Step 0.01dB) o.01gB in 152dB (Step 0.01dB) <b< td=""><td>• •</td><td>n°2 x XLR (3 pole female) / n°6 x XLR (3 pole male)</td></b<>	• •	n°2 x XLR (3 pole female) / n°6 x XLR (3 pole male)	
Digital Outputn°1 x XLR (3 pole male) - Compliant with the input standardRDnet Inputs/Outputn°2 x XLR RJ45 (CAT 5 cable)USBB-TypeSound Control ParametersB-TypeGain-80dB to +20dB (step 0.1dB)Delay Input / Outputs0 to 72.9ms (step 0.1 ms)Phase Rotation0° - 180°CompressionTit to Inf:1 (step 0.01)Ntreshold1:3 to Inf:1 (step 0.01)Ratio1:3 to Inf:1 (step 0.01)Output gainOdB to 40dB (step 0.1dB)Attack time1mS to 1000mS (step 0.1dB)Release time1mS to 1000mS (step 0.1dB)Hold time1mS to 1000mS (step 0.1dB)Equalizers1mS to 1000mS (step 0.1dB)Attack time1mS to 1000mS (step 0.1dB)Release time1mS to 1000mS (step 0.1dB)Hold time1mS to 1000mS (step 0.1dB)Equalizers20Hz to 20Hz (step 1.1mS)Equalizers20Hz to 20Hz (step 0.1dB)Crossover Filters20Hz to 20Hz (step 0.1dB) - only with PEQFilterLinkwitz Riley, HP High-pass, LP Low-pass SlopeFilterLinkwitz Riley, HP High-pass, LP Low-pass SlopeCut-Off Frequency5Hz to 20KHz (step 0.1Hz)Power SupplyFull-range 100-240Vac / 50-60HzDimension (WxHxD)430/482 x 43 x 130 mm - 17/19 x 1.7 x 5.1 inch.			
Rhnet Inputs/Outputn*2 x XLR RJ45 (CAT 5 cable)USBB-TypeSound Control ParametersGain-80dB to +20dB (step 0.1dB)Delay Input / Outputs0 to 72.9ms (step 0.1 ms)Phase Rotation0° - 180°CompressionThreshold1:1 to Inf:1 (step 0.01) 0utput gain Attack time Hold timePhase Rotation-80dB a +20dB (step 0.1dB)Output gain Attack time Hold time-80dB a +20dB (step 0.1dB) 1:1 to Inf:1 (step 0.01) 0dB to 40dB (step 0.1dB) 1:1 to Inf:1 (step 0.01) Output gain Attack time time to 1000mS (step 0.1mS) to 1000mS (step 0.1mS)Equalizers-80dB a +20dB (step 0.1dB) 1:1 to Inf:2 (step 0.1dB) 1:1 to Inf:2 (step 0.1mS) to 1000mS (step 0.1mS)Equalizers-80dB a +20dB (step 0.1dB) 1:1 to Inf:2 (step 0.1mS) to 1000mS (step 0.1mS)Flease time Hold time1mS to 1000mS (step 0.1mS) to 1000mS (step 0.1mS)Equalizers-90dB to 415dB (step 0.01dB) 0.05dB to 2018 (step 0.01dB) 0.05dB to 2dB (step 0.01dB) 0.05dB to 2dB (step 0.01dB) 0.05dB to 2dB (step 0.01dB) - only with PEQCrossover FiltersLinkwitz Riley, HP High-pass, LP Low-pass Stope 12dB/oct - 24dB/oct - 24dB/oct - 24dB/oct 2dB/oct - 24dB/oct - 24dB/octPower SupplyFull-range 100-240Vac / 50-60Hz HI2Power SupplyFull-range 100-240Vac / 50-60HzDimension (WxHxD)430/482 x 43 x 130 mm - 17/19 x 1.7 x 5.1 inch.			
USBB-TypeSound Control Parameters-80dB to +20dB (step 0.1dB)Gain-80dB to +20dB (step 0.1dB)Delay Input / Outputs0 to 72.9ms (step 0.1 ms)Phase Rotation0° - 180°CompressionThreshold-80dB a +20dB (step 0.1dB)Ratio-80dB a +20dB (step 0.1dB)Output gainodB to 40dB (step 0.1dB)Attack time1mS to 1000mS (step 0.1mS)Hold time1mS to 1000mS (step 0.1mS)Hold time1mS to 1000mS (step 0.1mS)EqualizersPEQ (parametric), Hi-shelf, Lo-shelf requencyGain-30dB to +15dB (step 0.01dB) o.05dB to 20KHz (step 1Hz)Gain-30dB to +15dB (step 0.01dB) o.05dB to 2dB			
Sound Control ParametersGain-80dB to +20dB (step 0.1dB)Delay Input / Outputs0 to 72.9ms (step 0.1 ms)Phase Rotation0° - 180°CompressionThreshold RatioOutput gain Attack time Release time Hold time112 equalizers for each input and output Type: Frequency Gain BandPEQ (parametric), Hi-shelf, Lo-shelf 20Hz to 20KHz (step 0.1dB) 1mS to 1000mS (step 0.1mS)12 equalizers for each input and output Type: Frequency Gain BandPEQ (parametric), Hi-shelf, Lo-shelf 20Hz to 20KHz (step 0.01dB) - 30dB to 415dB (step 0.01dB) - 0.01B) to 2dB (step 0.01dB) - 0.00S (step 0.1mS)Efluer 1000mS (step 0.1mS)Frequency 20Hz to 20KHz (step 1Hz) - 30dB to 415dB (step 0.01dB) - 30dB to 2dB (step 0.01dB) - 0.01B) - 30dB to 2dB (step 0.01dB) - 0.01B) - 0.01B) - 0.01B)Crossover FiltersFilter Type: Slope Slope - 12dB/oct - 24dB/oct - 24dB/oct - 48dB/oct - 20KHz (step 1Hz) - 302B to 20KHz (step 0.11dB) - 302B to 240Vac / 50-60HzPower SupplyFull-range 100-240Vac / 50-60HzPower SupplyFull-range 100-240Vac / 50-60HzPomersion (WxHxD)430/482 x 43 x 130 mm - 17/19 x 1.7 x 5.1 inch.	USB		
Gain-80dB to +20dB (step 0.1dB)Delay Input / Outputs0 to 72.9ms (step 0.1 ms)Phase Rotation0° - 180°CompressionThreshold Ratio-80dB a +20dB (step 0.1dB) 1:1 to Inf:1 (step 0.01)Output gain Attack time time Hold time-80dB a +20dB (step 0.1dB) 1:1 to Inf:1 (step 0.01)Equalizers time trequency1mS to 1000mS (step 0.1mS) (step 0.1mS)Equalizers frequency Gain Band-80dB to +15dB (step 0.1dB) 0.05dB to 2dB (step 0.1mS)Filter Frequency Gain Band-80dB (step 0.1mS) (step 0.1mS)Filter Frequency Gain Band-80dB to +15dB (step 0.01dB) 0.05dB to 2dB (step 0.01dB) 0.05dB to 2dB (step 0.01dB) 0.05dB to 2dB (step 0.01dB) 0.01dB) - only with PEQCrossover FiltersLinkwitz Riley, Type: Slope 12dB/oct - 24dB/oct - 48dB/oct Slope 12dB/oct - 24dB/oct - 48dB/oct Slope 12dB/oct - 24dB/oct - 50-60HzPower SupplyFull-range 100-240Vac / 50-60HzPimension (WxHxD)430/482 x 43 x 130 mm - 17/19 x 1.7 x 5.1 inch.	Sound Control Parameters		
Delay Input / Outputs0 to 72.9ms (step 0.1 ms)Phase Rotation0° - 180°CompressionThreshold Ratio-80dB a +20dB (step 0.1dB) 1.1 to Inf:1 (step 0.01)Output gain Attack time time-80dB ta 40dB (step 0.1dB) Attack time 1mS to 1000mS (step 0.1mS)Release time Hold time1mS to 1000mS (step 0.1mS)Equalizers1mS to 1000mS (step 0.1mS)Equalizers20Hz to 20KHz (step 1Hz) -30dB to 415dB (step 0.01dB) -30dB to 415dB (step 0.01dB) -30dB to 415dB (step 0.01dB) -30dB to 415dB (step 0.01dB) -30dB to 2dB (step 0.01dB) -30dB		-80dB to +20dB (step 0.1dB)	
Phase Rotation0° - 180°Compression-80dB a +20dB (step 0.1dB)Threshold Ratio-80dB a +20dB (step 0.1dB) 1:1 to Inf:1 (step 0.01) OdB to 40dB (step 0.1dB) Attack time Attack time Attack time Attack time time the dot 1ms to 1000mS (step 0.1mS) Ims to 1000mS (step 0.1mS)EqualizersI2 equalizers for each input and output Type: Frequency Gain BandPEQ (parametric), Hi-shelf, Lo-shelf 20Hz to 20KHz (step 0.1dB) o.05dB to +15dB (step 0.01dB) o.05dB to 2dB (step 0.01dB) o.05dB to 2dB/cot - 2ddB/oct 2dB/oct - 2ddB/oct - 48dB/oct 2dB/oct - 2ddB/oct - 48dB/oct 2dB/oct - 2ddB/oct - 50-60HzPower SupplyFull-range 100-240Vac / 50-60HzDimension (WxHxD)430/482 x 43 x 130 mm - 17/19 x 1.7 x 5.1 inch.			
Threshold-8odB a +2odB (step 0.1dB)Ratio1:1 to Inf:1 (step 0.01)Output gainOdB to 40dB (step 0.1dB)Attack time1mS to 1000mS (step 0.1mS)Release time1mS to 1000mS (step 0.1mS)Hold time1mS to 1000mS (step 0.1mS)EqualizersEqualizersPEQ (parametric), Hi-shelf, Lo-shelf12 equalizers for each input and outputType:PEQ (parametric), Hi-shelf, Lo-shelfSede as the equalizer of the each input and outputType:20Hz to 20KHz (step 1Hz)SodB to +15dB (step 0.01dB)Band.0.05dB to 2dB (step 0.01dB)OotsdB to 2dB (step 0.01dB)Band.0.05dB to 2dB (step 0.01dB) <t< td=""><td>Phase Rotation</td><td></td></t<>	Phase Rotation		
Threshold-8odB a +2odB (step 0.1dB)Ratio1:1 to Inf:1 (step 0.01)Output gainOdB to 40dB (step 0.1dB)Attack time1mS to 1000mS (step 0.1mS)Release time1mS to 1000mS (step 0.1mS)Hold time1mS to 1000mS (step 0.1mS)EqualizersEqualizersPEQ (parametric), Hi-shelf, Lo-shelf12 equalizers for each input and outputType:PEQ (parametric), Hi-shelf, Lo-shelfSede as the equalizer of the each input and outputType:20Hz to 20KHz (step 1Hz)SodB to +15dB (step 0.01dB)Band.0.05dB to 2dB (step 0.01dB)OotsdB to 2dB (step 0.01dB)Band.0.05dB to 2dB (step 0.01dB) <t< td=""><td>Compression</td><td></td></t<>	Compression		
12 equalizers for each input and outputType:PEQ (parametric), Hi-shelf, Lo-shelfFrequency20Hz to 20KHz (step 1Hz)Gain-30dB to +15dB (step 0.01dB)Band0.05dB to 2dB (step 0.01dB) - only with PEQCrossover FiltersFilterLinkwitz Riley,Type:HP High-pass, LP Low-passSlope12dB/oct - 24dB/oct - 48dB/octCut-Off Frequency5Hz to 20KHz (step of 1Hz)Power SupplyFull-range 100-240Vac / 50-60HzDimension (WxHxD)430/482 x 43 x 130 mm - 17/19 x 1.7 x 5.1 inch.	Threshold Ratio Output gain Attack time Release time Hold time	1:1 to Inf:1 (step 0.01) OdB to 40dB (step 0.1dB) 1mS to 1000mS (step 0.1mS) 1mS to 1000mS (step 0.1mS)	
Type:PEQ (parametric), Hi-shelf, Lo-shelfFrequency20Hz to 20KHz (step 1Hz)Gain-30dB to +15dB (step 0.01dB)Band0.05dB to 2dB (step 0.01dB) - only with PEQCrossover FiltersFilterLinkwitz Riley,Type:HP High-pass, LP Low-passSlope12dB/oct - 24dB/oct - 48dB/octCut-Off Frequency5Hz to 20KHz (step of 1Hz)Power SupplyFull-range 100-240Vac / 50-60HzDimension (WxHxD)430/482 x 43 x 130 mm - 17/19 x 1.7 x 5.1 inch.	Equalizers		
FilterLinkwitz Riley,Type:HP High-pass, LP Low-passSlope12dB/oct - 24dB/oct - 48dB/octCut-Off Frequency5Hz to 20KHz (step of 1Hz)Power SupplyFull-range 100-240Vac / 50-60HzDimension (WxHxD)430/482 x 43 x 130 mm - 17/19 x 1.7 x 5.1 inch.	12 equalizers for each input and output Type: Frequency Gain Band	20Hz to 20KHz (step 1Hz) -30dB to +15dB (step 0.01dB)	
Type:HP High-pass, LP Low-passSlope12dB/oct - 24dB/oct - 48dB/octCut-Off Frequency5Hz to 20KHz (step of 1Hz)Power SupplyFull-range 100-240Vac / 50-60HzDimension (WxHxD)430/482 x 43 x 130 mm - 17/19 x 1.7 x 5.1 inch.	Crossover Filters		
Dimension (WxHxD) 430/482 x 43 x 130 mm - 17/19 x 1.7 x 5.1 inch.	Filter Type: Slope Cut-Off Frequency	HP High-pass, LP Low-pass 12dB/oct - 24dB/oct - 48dB/oct	
	Power Supply	Full-range 100-240Vac / 50-60Hz	
Weight 1.9Kg - 4.2 lbs.	Dimension (WxHxD)	430/482 x 43 x 130 mm - 17/19 x 1.7 x 5.1 inch.	
	Weight	1.9Kg - 4.2 lbs.	



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.