

# VA-24-4ch Controller Unit

*"Simple and highly versatile without compromising sound masking performance and quality."*



## Each VA-24-4ch controller unit provides:

- Up to 4 output channels
- Up to 6 speakers per channel
- Independent equalizer for each channel
  - 340 narrow bands automatic equalizer
  - 19 1/3 octave bands automatic or manual equalizer
- High-powered amplifier providing 88 dBA at 1m
- Up to 4 inputs for active volume control sensors
- 4 music and paging inputs with independent 1/3 octave equalizers for each output channel
- 2 inputs for wall mounted volume control knobs

## The VA-24-4ch networked sound masking system highlights:

- Simple and highly versatile without compromising sound masking performance and quality.
- Multiple controller units can be networked together to construct large sound masking projects.
- Adaptive volume adjustment for optimal efficiency and comfort (US Patent 8116461 B2)
- Automatic equalization that guarantees the optimum sound masking spectra (US Patent 7460675 B2)

## SPECIFICATIONS:

<b>Outputs</b>	
Nb Outputs	4
Max Nb Speakers/Outputs	6
Max Nb Speakers/Controller	24
<b>Sound Masking</b>	
Sound Masking Volume	30 to 88 dBA in 0.1 dB steps and mute
Sound Masking Equalizer	Auto-calibration process in 340 narrow bands of 19 1/3 octave bands from 100Hz to 6.3kHz
Sound Masking Ref Spectrum	13 pre-set sound masking reference spectrums, unlimited user defined spectrums
Sound Masking Volume Ramp-Up	User defined, up to 30 days
<b>Active Volume Control</b>	
Nb Sensor Inputs	4
Max Nb Sensors/Input	6
Control	Independent sound masking volume adjustment for each output channel
Masking Volume Change Rate	Adjustable down to 0.1 dB steps, updates every 15s
Active Adjustment Range	User defined; maximum range: -7 to +3 dB relative to reference masking level

# SPECIFICATIONS:

<b>Music and Paging</b>	
Music and Paging Inputs	4
Music and Paging Mixer	Independent for each output channel
Music and Paging Volume	30 to 88 dBA in 0.1 dB steps and mute
Music and Paging Equalizer	18 1/3 octave bands (125Hz to 6.3kHz)
<b>Volume Control Knobs</b>	
Volume Ctrl Knob Inputs	2
Volume Ctrl Knob Mixer	Independent for each output channel (Sound Masking and/or Paging and Music)
Volume Range	User defined
<b>Schedule</b>	
Schedule	24 hour periods per day, 7 days
Volume	0.1dB steps
Transition Ramp	Instant, 2m30, 5min, 10min, or 15min
Schedule Mixer	Independent for each output channel (Sound Masking and/or Paging and Music)
Daylight Saving Time	Automatic Adjustment depending on local time zone settings
<b>Monitoring</b>	
24/7 system diagnosis (requires computer running Project Manager Software)	
<b>LEED</b>	
Design Feature	Controller can be put in low-power mode according to daily schedule
Schedule	7 daily periods per week (user defined)
<b>Project Master</b>	
Can Be a Project Master	Yes
<b>Connectivity</b>	
Connectivity	Wifi, Ethernet, or USB (not required for normal operation)
Wifi	WPA/WPA2 Personal or WEP, can be turned ON or OFF
<b>Power</b>	
Input	18-24VDC, Max 30W
Available Power Supply	50W, 120W and 160W (Higher power needed when powering multiple controllers)
<b>Physical</b>	
Size	233mm x 135mm x 33mm (9 3/16" x 5 5/16" x 1 5/16")
Weight	320g (0.7lb)
<b>Warranty</b>	
Warranty	10 years
<b>Certifications - ETL Listed 3191772</b>	
UL 60065 / ULC 60065 - Standard for Audio, Video and Similar Electronic Apparatus - Safety Requirements	
UL 2043 - Standard for Fire Test for Heat and Visible Smoke Release for Discrete Products and Their Accessories Installed in Air-Handling Spaces	
FCC - EN 55103 - Electromagnetic compatibility - Product family standard for audio, video, audio-visual and entertainment lighting control apparatus for professional use - Part 1: Emissions, Part 2: Immunity	
<b>Related ASTM Standards</b>	
ASTM E1374-06 (11) - Standard Guide for Open Office Acoustics and Applicable ASTM Standards	
ASTM E1573-09 - Standard Test Method for Evaluating Masking Sound in Open Office Using A-Weighted and One-Third Octave Band Sound Pressure Levels	
ASTM E1130-08 - Standard Test Method for Objective Measurement of Speech Privacy in Open Offices Using Articulation Index	
ASTM E2638 - Standard Test Method for Objective Measurement of Speech Privacy Provided by Closed Rooms	

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