

# VA-24S-4ch Controller Unit

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



## Each VA-24S-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-24S-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 spectrum (US Patent 7460675 B2)

## SPECIFICATIONS:

| Outputs                      |  |
|------------------------------|--|
| Nb Outputs                   | 4  |
| Max Nb Speakers/Outputs      | 6  |
| Max Nb Speakers/Controller   | 24   |
| Sound Masking                |  |
| 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  |
| Active Volume Control        |  |
| 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, 2min30sec, 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   | No  |
| <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 safety requirements for audio, video, and similar electronic apparatus  |   |
| 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  |   |

Multiple controller units can be networked together to construct large sound masking projects.



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