



A modern amplifier equipped with a DSP signal processor, which enables precise sound properties equalization in buildings with very hard acoustic conditions. The amplifier activates only those microphones that are being used at the moment, which eliminates the influence of the surrounding sound coming out of unnecessarily opened microphone channels.

Amplifier with DSP processor equipment:

- six XLR programmable, symmetrical microphone or linear inputs with sensitivity, gain, soprano, and bass control, as well as overdrive signalling;
- each microphone channel has a 100Hz filter, switchable mic / line inputs with phantom power;
- choice of two recorded settings (preset for small or big amount of people in a building);
- automatic reverb elimination
- RCA (Cinch) universal input with gain, soprano and bass control;
- 15-point input parametric equalizer: - frequency control from 20 Hz to 20 kHz, - bandwidth control from 0,05 to 3 dB/oct. - band depth control from -12 dB to +12 dB; - choice of shelving-filters LoSh6, LoSh12, HiSh6, HiSh12;
- symmetrical 0dB XLR output: - gain control, - delay line control (from 0 to 85m),
- acoustic feedback suppressor;
- DE-ESSER
- USB/SD MP3 player with a remote control
- power terminal protection devices: temperature, anti-short-circuit, current, anti high frequency and limiter;
- can be made as a table type or built in a 19" rack cabinet.

| TECHNICAL DATA | AMWL-7DSP1/200 | AMWL-7DSP1/400 | AMWL-7DSP1/600 |
|--|--|--|--|
| Output power (sinus) | 200W | 400W | 600W |
| Microphone and linear inputs, programmable, symmetrical and electronic | inputs XLR: 1-6 | inputs XLR: 1-6 | inputs XLR: 1-6 |
| - MIC/LINE switch | yes | yes | yes |
| - MIC sensitivity control | -40dB -15dB | -40dB -15dB | -40dB -15dB |
| - LINE-sensitivity control | -15dB +5dB | -15dB +5dB | -15dB +5dB |
| - Impedance | 1,6kΩ | 1,6kΩ | 1,6kΩ |
| - Phantom power | 24V DC | 24V DC | 24V DC |
| - HPF-Filter | 100 Hz, 6dB/oct. | 100 Hz, 6dB/oct. | 100 Hz, 6dB/oct. |
| - Adjustment: bass, soprano | ±12dB, 100 Hz, 10 kHz, shelf filter | ±12dB, 100 Hz, 10 kHz, shelf filter | ±12dB, 100 Hz, 10 kHz, shelf filter |
| - Signaling | green diode - active channel red diode - clipping | green diode - active channel red diode - clipping | green diode - active channel red diode - clipping |
| Universal input (mono) | input RCA: 7 | input RCA: 7 | input RCA: 7 |
| - input sensitivity | -10dB +12dB | -10dB +12dB | -10dB +12dB |
| - impedance | 10kΩ | 10kΩ | 10kΩ |
| - adjustment: bass, soprano | ±12dB, 100 Hz, 10 kHz, shelf filter | ±12dB, 100 Hz, 10 kHz, shelf filter | ±12dB, 100 Hz, 10 kHz, shelf filter |
| Limiter | double, peak, on DSP input and on power amplifier | double, peak, on DSP input and on power amplifier | double, peak, on DSP input and on power amplifier |
| 15-point parametric equalizer or shelving filter | ±12 dB, 0,05 3oct. LoSh6, LoSh12 HiSh6, HiSh12 | ±12 dB, 0,05 3oct. LoSh6, LoSh12 HiSh6, HiSh12 | ±12 dB, 0,05 3oct. LoSh6, LoSh12 HiSh6, HiSh12 |
| Acoustic feedback suppressor | adaptive, phase shifter | adaptive, phase shifter | adaptive, phase shifter |

| TECHNICAL DATA | AMWL-7DSP1/200 | AMWL-7DSP1/400 | AMWL-7DSP1/600 |
|-------------------------------------|------------------------|------------------------|------------------------|
| Expander - 8 channel compressor | yes | yes | yes |
| Delay | 0 - 85m | 0 - 85m | 0 - 85 m |
| Non-grounded symmetrical output | 100V, 70V, 50V, 8Ω, 4Ω | 100V, 70V, 50V, 8Ω, 4Ω | 100V, 70V, 50V, 8Ω, 4Ω |
| Loudspeaker-zone | 6-step 0-100V | 6-step 0-100V | 6-step 0-100V |
| Frequency range | 40 - 22 000 Hz | 40 - 22 000 Hz | 40 - 22 000 Hz |
| Harmonic distortions | < 0,1% | < 0,1% | < 0,1% |
| Work temperature | from -5°C to +40°C | from -5°C to +40°C | from -5°C to +40°C |
| Dimensions width/height/dept h [mm] | 443 x 135 x 340 | 443 x 135 x 340 | 443 x 135 x 340 |
| Weight [kg] | 12,2 | 13,7 | 15,8 |