

**Full DA  
HD**

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voce

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## AV 5.1k HD

1650 W POWER AMPLIFIER  
Five-Channel Power Amplifier  
with Digital Input



ideato,  
progettato,  
ingegnerizzato  
in Italia

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**Voce AV 5.1k HD**, 1650W (RMS) total, 5-channel power audio amplifier: hybrid design made up of two 75 W A Class channels, two 250 W AB Class channels and one 1000 W D Class channel. This unique combination of technologies, each especially suitable for one specific audio section, makes the **AV 5.1k HD** amplifier the perfect choice to build active two-way Front systems: Tweeter/MID-Tweeter (A Class) + Woofer (AB Class) and Subwoofer (D Class), or Front + Rear + Subwoofer systems.

AV 5.1k HD is the first Car Audio amplifiers featuring digital inputs only, providing the ability to connect directly to the digital outputs of a digital signal processor (DSP). Through this connection, made via the Audison AD Link available on the Audison processors (bit One, bit Ten D), a **Full DA HD** audio chain can be created. Thanks to this chain, the high resolution (96kHz/24 bit) digital audio signal coming from the head unit, via the processor, can be obtained up to just the Digital/Analog converter of the amplifier's audio chain, ensuring maximum reduction of any signal deterioration. Thanks to its input connectivity, the Audison AC Link can also be connected to control the amplifier as well as the AC Link and AD Link outputs, to expand the audio system with other **Audison Voce** amplifiers. These features make **AV 5.1k HD** the most advanced amplifier available in the market, perfect to appreciate the quality of Hi-Res audio files.

| POWER SUPPLY                                |             |
|---|-------------|
| Power supply voltage:                       | 11 ÷ 15 VDC |
| Idling current:                             | 3 A         |
| Idling current when off:                    | 0.02 mA     |
| Consumption @ 14.4 VDC (Max Musical Power): | 110 A       |

| AMPLIFIER STAGE   |   |
|---|---|
| Distortion - THD (1k Hz @ 4Ω) A, B Ch:                      | 0.05 %  |
| Distortion - THD (100 Hz @ 4Ω), C (sub) Ch:                 | 0.3 %   |
| Bandwidth (-3 dB) A, B Ch:                                  | 5 ÷ 20k Hz  |
| Bandwidth (-3 dB) C (sub) Ch:                               | 7 ÷ 350 Hz  |
| S/N ratio (A weighted @ 0dB) A, B Ch:                       | 100 dB  |
| S/N ratio (A weighted @ 0dB) C (sub) Ch:                    | 87 dB   |
| Damping factor (1k Hz @ 4Ω) A, B Ch:                        | 100   |
| Damping factor (100 Hz @ 4Ω) C (sub) Ch:                    | 80  |
| Gain (ON/OFF selectable):                                   | -15 / +3 dB   |
| Minimum load impedance A / B / C Ch:                        | 4Ω / 2Ω / 2Ω  |
| NOMINAL POWER (RMS)<br>A + B + C Ch @ 12 VDC, THD 0,3%, 4Ω: | 50 W x 2 + 120 W x 2 + 500 W x 1  |
| OUTPUT POWER (RMS)<br>A + B + C Ch @ 14.4 VDC, THD 1%:      | <ul style="list-style-type: none"> <li>• 5 Ch: 75 W x 2 (4Ω) + 140 W x 2 (4Ω) + 600 W x 1 (4Ω)</li> <li>• 5 Ch: 75 W x 2 (4Ω) + 140 W x 2 (4Ω) + 1000 W x 1 (2Ω)</li> <li>• 5 Ch: 75 W x 2 (4Ω) + 250 W x 2 (2Ω) + 1000 W x 1 (2Ω)</li> </ul> |

| CEA SPECIFICATIONS |   |
|--------------------|---|
|                    | Output power @ 4Ω, 1% THD+N, 14.4 V:<br>75 W x 2 + 140 W x 2 + 600 W x 1                                |
|                    | SN ratio (ref. 1W output):<br>75 W Channels: 80 dBA<br>140 W Channels: 80 dBA<br>600 W Channels: 78 dBA |

| DIGITAL CONNECTION PANEL |                   |
|--------------------------|-------------------|
| Digital resolution:      | 24 bit / 192 kHz  |
| Input:                   | AD Link / AC Link |
| Output:                  | AD Link / AC Link |

| OTHER FUNCTIONS    |                  |
|--------------------|------------------|
| Remote IN:         | 7 ÷ 15 VDC - 1mA |
| Remote OUT:        | 12 VDC - 50mA    |
| Fuse (Strip type): | 100 A            |

| SIZE / WEIGHT       |   |
|---------------------|---|
| Max size (mm/inch): | 220 x 470 x 58 / 8.66" x 18.50" x 2.28" |
| Weight (kg/lb):     | 7,2 / 15.87                             |

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