

# Voce

## AV 5.1k

1650 W POWER AMPLIFIER  
 Five-Channel Power Amplifier  
 with Crossover



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AV 5.1k, 1650 W (RMS) max, five-channels: with its hybrid design, it is the specialist amplifier for front + rear + subwoofer or multi-amplified front + subwoofer systems. Its high-quality AB Class output stage provides two channels with 250 W (RMS), combined with another pair of A class pure audio channels rated at 75 W (RMS), perfect for active two-way front speaker systems. The D Class mono section provides 1000 W (RMS) for a powerful subwoofer output. AV 5.1k also allows you to replace the analog input board with the digital one (AV bit IN).

### 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:                                  | 4 ÷ 60k Hz                       |
| Bandwidth (-3 dB) C (sub) Ch:                               | 7 ÷ 350 Hz                       |
| S/N ratio (A weighted @ 1V) A, B Ch:                        | 100 dB                           |
| S/N ratio (A weighted @ 1V) C (sub) Ch:                     | 87 dB                            |
| Damping factor (1k Hz @ 4Ω) A, B Ch:                        | 100                              |
| Damping factor (100 Hz @ 4Ω) C (sub) Ch:                    | 80                               |
| Input sensitivity:  | 0.3 ÷ 5 V RMS                    |
| Input impedance:  | 15k Ω                            |
| Speaker-In sensitivity:                                     | 1.4 ÷ 24 V RMS                   |
| Speaker-In impedance:                                       | 5k Ω                             |
| Minimum load impedance A / B / C Ch:                        | 4Ω / 2Ω / 2Ω                     |
| NOMINAL POWER (RMS) A + B + C Ch @ 12 VDC,<br>THD 0,3%, 4Ω: | 50 W x 2 + 120 W x 2 + 500 W x 1 |

#### OUTPUT POWER (RMS) A + B + C Ch @ 14.4 VDC, THD 1%:

- 5 Ch: 75 W x 2 (4Ω) + 140 W x 2 (4Ω) + 600 W x 1 (4Ω)
- 5 Ch: 75 W x 2 (4Ω) + 140 W x 2 (4Ω) + 1000 W x 1 (2Ω)
- 5 Ch: 75 W x 2 (4Ω) + 250 W x 2 (2Ω) + 1000 W x 1 (2Ω)

### CEA SPECIFICATIONS



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

### SIGNALS INPUTS / FILTERS

|  |  |
|--|--|
| Inputs:                                    | Pre IN / Speakers IN                         |
| Outputs:                                   | Pre OUT Full Range                           |
| A Ch Filters (Full / Hi-Pass):             | 50 ÷ 5k Hz (2 range) @ 12 dB/Oct.            |
| B Ch Filters (Full / Hi-Pass / Band-Pass): | 50 ÷ 1k Hz (Hi) / 250 ÷ 5k (Lo) @ 12 dB/Oct. |
| C Ch Filters (Full / Lo-Pass):             | 50 ÷ 150 Hz @ 24 dB/Oct.                     |

### OTHER FUNCTIONS

|                            |                  |
|----------------------------|------------------|
| Remote IN:                 | 7 ÷ 15 VDC - 1mA |
| Remote OUT:                | 12 VDC - 50mA    |
| Fuse (Strip type):         | 100 A            |
| Remote SUB volume adj.:    | (-50 ÷ 6) dB     |
| Speakers IN Turn-on (ART): | Selectable       |

### SIZE / WEIGHT

|                       |   |
|-----------------------|---|
| Max size (mm/inches): | 220 x 470 x 58 / 8,66" x 18,50" x 2,28" |
| Weight (kg/lb):       | 7.2 / 15.87                             |



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## FILTERS

| Speaker Output                         |   |                             | Signal Input and Switch |                          |         |
|--|---|-----------------------------|-------------------------|--------------------------|---------|
| C channels                             | B channels                              | A channels                  | C input                 | B input                  | A input |
| <p>Lo-Pass<br/>24 dB<br/>50÷150 Hz</p> | <p>Hi-Pass<br/>50÷1k Hz</p>             | <p>Hi-Pass<br/>50÷5k Hz</p> | <p>SUB<br/>A+B</p>      | <p>A (Pre-out)<br/>B</p> | INPUT   |
| <p>Lo-Pass<br/>24 dB<br/>50÷150 Hz</p> | <p>Band-Pass<br/>50÷1k Hz 250÷5k Hz</p> | <p>Hi-Pass<br/>50÷5k Hz</p> | <p>SUB<br/>A+B</p>      | <p>A (Pre-out)<br/>B</p> | INPUT   |
| <p>By-Pass</p>                         | <p>By-Pass</p>                          | <p>By-Pass</p>              | <p>SUB<br/>A+B</p>      | <p>A (Pre-out)<br/>B</p> | INPUT   |