

# 1:20 Video Audio Distribution Amplifier

# VM-20ARII

The Kramer VM-20ARII is a high performance 1:20 reconfigurable distribution amplifier for composite video and audio stereo signals. In its typical configuration, the VM-20ARII accepts one input, and distributes it to 20 identical outputs using BNC connectors for video, and RCA connectors for audio. In addition to its basic 1:20 mode, three multi-channel modes can be selected by front panel buttons namely, dual 1:10, quad 1:5, and one 1:10 plus two 1:5's. There are two discreet sets of controls allowing the audio and video sections to be configured

differently. For systems with varying cable lengths, separate video gain and equalization controls are provided for each set of five outputs. Looping video inputs make it easy to create larger distribution or switching systems. The multi-channel modes provide compatibility with component video formats such as YC, YUV, RGBS, etc., and a video bandwidth of 430MHz ensures that the VM-20ARII remains transparent even in the most critical production, broadcast, or presentation applications.



## TECHNICAL SPECIFICATIONS

|                         |                                                                                                                                                                                            |
|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>INPUTS:</b>          | 4 video looping, 1Vpp / 75 $\Omega$ on BNCs with termination switches.<br>4 audio stereo (or balanced mono) +4dBm / 50 k $\Omega$ , on RCAs.                                               |
| <b>OUTPUTS:</b>         | 20 (1:20, 2x1:10, 4x1:5, 1:10+2x1:5) video 1 Vpp / 75 $\Omega$ on BNCs.<br>20 (1:20, 2x1:10, 4x1:5, 1:10+2x1:5) audio stereo (or balanced mono) +4dBm / 50 $\Omega$ , 27 Vpp max. on RCAs. |
| <b>VIDEO BANDWIDTH:</b> | 430 MHz. -3dB.                                                                                                                                                                             |
| <b>AUDIO BANDWIDTH:</b> | 110 kHz. -1dB.                                                                                                                                                                             |
| <b>DIFF. GAIN:</b>      | 0.06 %.                                                                                                                                                                                    |
| <b>AUDIO THD+NOISE:</b> | < 0.02%.                                                                                                                                                                                   |
| <b>DIFF. PHASE:</b>     | 0.08 Deg.                                                                                                                                                                                  |
| <b>2nd HARMONIC:</b>    | < 0.002%.                                                                                                                                                                                  |
| <b>VIDEO S/N RATIO:</b> | > 76 dB.                                                                                                                                                                                   |
| <b>AUDIO S/N RATIO:</b> | > 80 dB.                                                                                                                                                                                   |
| <b>VIDEO COUPLING:</b>  | DC / AC user selectable.                                                                                                                                                                   |
| <b>AUDIO COUPLING:</b>  | AC.                                                                                                                                                                                        |
| <b>VIDEO CONTROL:</b>   | -1.2 / +1.7 dB LEVEL, 0 / +2.4 dB EQ.                                                                                                                                                      |
| <b>AUDIO CONTROL:</b>   | +0.3 / +6.2dB.                                                                                                                                                                             |
| <b>POWER SOURCE:</b>    | 230 VAC 50 / 60 Hz. (115V U.S.A.) 18.5 VA.                                                                                                                                                 |
| <b>DIMENSIONS:</b>      | 19 inch (W), 7 inch (D) 2U (H) rack mountable.                                                                                                                                             |
| <b>WEIGHT:</b>          | 3.6 kg. (8 lbs.) approx.                                                                                                                                                                   |
| <b>ACCESSORIES:</b>     | Power cord.                                                                                                                                                                                |

## TYPICAL APPLICATIONS

- Production and duplication facilities, retail store systems, medical and educational video and CCTV applications.
- Extended bandwidth allows use with high-resolution computer-video signals.