

# DSP / Matrix Processor

## Model List

- DR 08 | Advanced 8-Channel Audio Processor
- DR 16 | Advanced 16-Channel Audio Processor

## Product Introduction

Introducing the DR 88 and DR 1616, advanced intelligent mixing media matrix devices designed to offer unparalleled audio management for various applications. The DR 88 features 8 inputs and 8 outputs, while the DR 1616 provides 16 inputs and 16 outputs. Both models come equipped with USB sound cards for easy recording and playback via PC software. With features like 48V phantom power, auto gain control, noise suppression, and extensive EQ settings on each input and output channel, these devices ensure superior audio quality and flexibility. The Ethernet network control interface allows for easy configuration and real-time monitoring of up to 30 devices simultaneously, making system management seamless and efficient.

## Key Features

- DR 88: 8 balanced inputs and 8 balanced outputs; DR 1616: 16 balanced inputs and 16 balanced outputs.
- ADI SHARC 21489 processor with 48kHz sampling rate and 24-bit quantization.
- Built-in USB sound card for recording and playback via PC software.
- Independent 48V phantom power, auto gain control, and noise suppression per channel.
- Ethernet network interface for simultaneous configuration and monitoring of up to 30 devices.
- Input gain adjustable from 0 to 48 dB in 6 dB steps.
- System delay under 3ms with 110dB dynamic range for inputs and outputs.
- Frequency response of 20Hz–20kHz  $\pm 0.5$ dB and channel isolation of 108dB at 1kHz.
- Standard 1U rack-mountable design with dimensions of 482 x 260 x 45 mm.
- Balanced input impedance of 5.4K $\Omega$  and balanced output impedance of 600 $\Omega$ .



DR 08



DR 16



Software Included

## Technical Specification

|                             | DR 08                       | DR 16                       |
|-----------------------------|-----------------------------|-----------------------------|
| Processor                   | ADI SHARC 21489             | ADI SHARC 21489             |
| Sampling Rate               | 48kHz, $\pm 100$ ppm        | 48kHz, $\pm 100$ ppm        |
| Quantization Number         | 24 bits                     | 24 bits                     |
| Frequency Response          | (20~20kHz): $\pm 0.5$ dB    | (20~20kHz): $\pm 0.5$ dB    |
| System Delay                | < 3ms                       | < 3ms                       |
| Phantom Power Supply        | +48V/10mAmax                | +48V/10mAmax                |
| Maximum Level               | +18dBu                      | +18dBu                      |
| Input Gain                  | 0/6/12/18/24/30/36/42/48 dB | 0/6/12/18/24/30/36/42/48 dB |
| Input Channels              | 8 balanced                  | 16 balanced                 |
| Output Channels             | 8 balanced                  | 16 balanced                 |
| Input Dynamic Range         | 110dB                       | 110dB                       |
| Output Dynamic Range        | 110dB                       | 110dB                       |
| Input Impedance (Balanced)  | 5.4K $\Omega$               | 5.4K $\Omega$               |
| Output Impedance (Balanced) | 600 $\Omega$                | 600 $\Omega$                |
| Channel Isolation           | @1kHz: 108dB                | @1kHz: 108dB                |
| THD + N                     | -107dB @ 17dBu              | -107dB @ 17dBu              |
| Working Power Supply        | AC220V, 50Hz                | AC220V, 50Hz                |
| Dimensions (W x D x H)      | 482 x 260 x 45 mm           | 482 x 260 x 45 mm           |
| Weight                      | 4 kg                        | 4 kg                        |