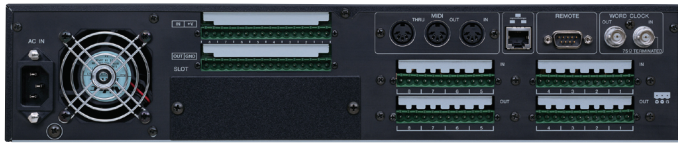


DME24N

Digital Mixing Engine



DME24N



Rear Panel



Substantial processing power plus head amp and analog I/O for fast, easy system implementation.

- Configurable as multiple audio processors for a wide range of applications – mixers, equalizers, compressors, crossovers, speaker processors, effects, feedback suppressors, wav file players, and much more.
- Easily configured and controlled via the DME Designer software application.
- 8 channels of built-in analog I/O with precision 24-bit 96-kHz A/D and D/A converters.
- High-performance analog preamplifiers that equal the sound and quality of those found in top-line Yamaha mixing consoles.
- Optimally-tuned 24-bit, 96-kHz digital processing.
- In addition to the eight built-in I/O channels, a rear-panel slot accommodates an optional MY card for an extra 16 I/O channels in a variety of analog and digital formats - for a total of 24 I/O channels.
- Network connectivity with optional MY16CII CobraNet™ card or MY16-ES64 EtherSound Card.
- Seamless control Integration with compatible Yamaha digital mixing consoles.
- Up to 16 DME24N, DME64N and ICP1 Intelligent Control Panel units can be networked via their RJ45 connectors using CAT5 Ethernet cables.
- GPI, RS232C/RS422, USB, and MIDI Interfaces.
- Large LCD Display with Comprehensive Panel Controls.
- The DME24N and ICP1 Intelligent Control Panel, can display scene and function names in 5 languages: English, Japanese, French, German, and Spanish.

OPTIONS

MY4-AEC

Acoustic Echo Canceller Card
Provides 4 channels of acoustic echo cancellation.



REMOTE CONTROL PANELS

ICP1

Intelligent Control Panel
The most sophisticated of the DME series remotes, the ICP1 connects via Ethernet.

Functions include scene recall and six user-defined keys at the top and bottom of the LCD screen, which can be assigned to DME parameters such as microphone and music source levels. Up to 4 sets of "pages" are available - giving up to 24 parameters. LCD display shows names and scenes and function keys in five languages - English, German, French, Spanish and Japanese.



CP4SF

Four switches and four faders control panel

Wall-mountable remote control panel for GPI control. Uses a standard (US-type) 3 gang wall box.



CP4SW

Four switches control panel

Wall-mountable remote control panel for GPI control. Uses a standard (US-type) 1 gang wall box.



CP1SF

One switch and one fader control panel

Wall-mountable remote control panel for GPI control. Uses a standard (US-type) 1 gang wall box.

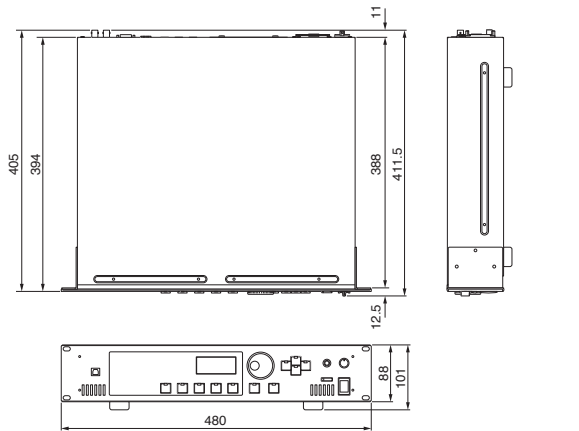


GENERAL SPECIFICATIONS

| | |
|---|---|
| Sampling frequency rate | Internal :44.1kHz,48kHz,88.2kHz,96kHz External :44.1kHz (-10%) to 48kHz (+6%), 88.2kHz (-10%) to 96kHz (+6%) |
| Signal delay | 0.5msec (Ch input to Ch output@96kHz) |
| Total harmonic distortion*1 | Less than 0.05, +14dBu into 600Ω |
| Frequency response | 0, +0.5, -1.5dB |
| Dynamic range | 106dB |
| Hum & noise level*2 | -128dBu (EIN), -82dBu (Residual noise) |
| Crosstalk (@1kHz) | -80dB (Adjacent channel) |
| Phantom Power | +48V |
| Configurations | Max. 16 |
| Scene | Max. 999 |
| Maximum input channel count | 24ch |
| Maximum output power channel count | 24ch |
| Power requirements | AC100V-240V 50Hz/60Hz |
| Power consumption | 75W |
| Dimensions (W x H x D) | 480 x 101 x 411.5mm (18.9" x 3.9" x 16.2"), 2U |
| Weight | 8kg (17.6lbs) |

*1 Total harmonic distortion is measured with a 18dB/Oct filter @80kHz.
*2 Hum & noise level is measured with a 6dB/oct filter @12.7kHz; equivalent to 20kHz filter with infinite dB/Oct attenuation.

DIMENSIONS



ANALOG INPUT SPECIFICATIONS

| Input terminal | GAIN | Actual load impedance | For use with nominal | Input level | | Connector |
|----------------|-------|-----------------------|---------------------------|-------------|------------------|------------|
| | | | | Nominal | Max. before clip | |
| INPUT 1-8 | -60dB | 3kΩ | 50-600Ω Mics & 600Ω Lines | -60dBu | -40dBu | Euroblock* |
| | +10dB | | | +10dBu | +30dBu | |

ANALOG OUTPUT SPECIFICATIONS

| Output terminal | Actual Source Impedance | For use with nominal | Output level | | Connector |
|-----------------|-------------------------|----------------------|--------------|------------------|-----------------|
| | | | Nominal | Max. before clip | |
| OUTPUT 1-8 | 75Ω | 600Ω Lines | +4dBu | +24dBu | Euroblock* |
| PHONES | 15Ω | 8Ω | 75mW | 150mW | ST Phone Jack** |
| | | 40Ω | 65mW | 150mW | |

CONTROL I/O SPECIFICATIONS

| Terminal | Format | Level | Connector |
|----------------|----------|---------|---------------------------------------|
| USB | USB1.1 | 0V-3.3V | B type USB Connector |
| MIDI | IN | MIDI | DIN-5pin |
| | OUT | MIDI | DIN-5pin |
| | THRU | MIDI | DIN-5pin |
| WORD CLOCK | IN | — | TTL/75Ω (terminated) BNC Connector |
| | OUT | — | TTL/75Ω BNC Connector |
| GPI 16IN/16OUT | IN | — | 0V-5V Euroblock |
| | OUT | — | TTL Euroblock |
| | +V | — | 5V Euroblock |
| REMOTE | — | RS232C | D-Sub Connector 9P (Male) |
| | — | RS422 | |
| ETHERNET | Ethernet | — | RJ-45 |

COMPONENT LIST

| Category | Component | |
|-------------------|-------------------------------|---|
| | Remote Controlled Internal HA | |
| | Delay | Long, Short |
| | Dynamics | Gate, Ducking, Expander, Componder, Compressor, De-Esser, Limiter |
| | Filter | BPF, HPF, LPF, Notch |
| | EQ | PEQ, GEQ |
| | Fader | |
| | Pan | LR, LCR, 3-1, 5.1, 6.1 |
| | Meter | |
| | Mixers | Simple Mixer |
| | | Auto Mixer (II) |
| Matrix Mixer | | |
| Delay Matrix | | |
| I/O functions | Analog I/O | |
| | MY card I/O | |
| Source | Oscillator | |
| | Wav File Player | |
| Routing functions | Source Selector | |
| | Router | |
| Crossover | Crossover | |
| | Crossover processor (II) | |
| Speaker Processor | Speaker Processor | |
| Other functions | Room Combiner | |
| | Feedback suppressor | |
| | Ambient Noise Compensator | |
| | Audio Detector | |
| | Auto Gain Control | |
| | Event Scheduler | |
| | SPX | |
| | Program Ducker | |