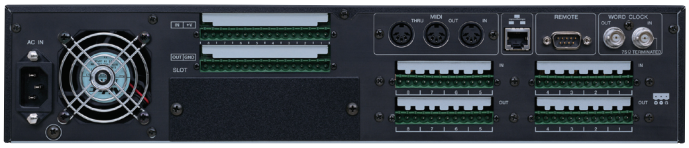
DME24N

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.

DME24N

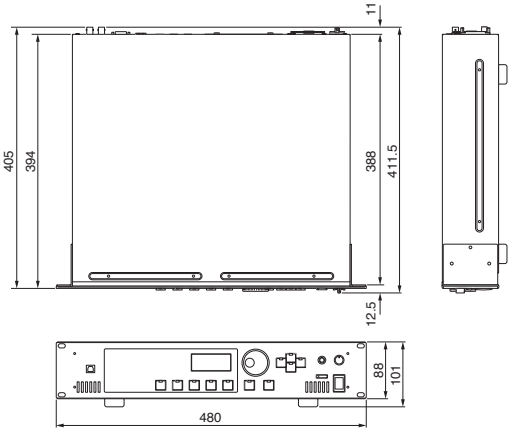
GENERAL SPECIFICATIONS

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

unit : mm



ANALOG INPUT SPECIFICATIONS

Input terminal		Actual load impedance	For use with nominal	Input level		Connector
	GAIN			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, Compander,
		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	