

# Panasonic

## Digital Multi Equalizer *WZ-DE45*

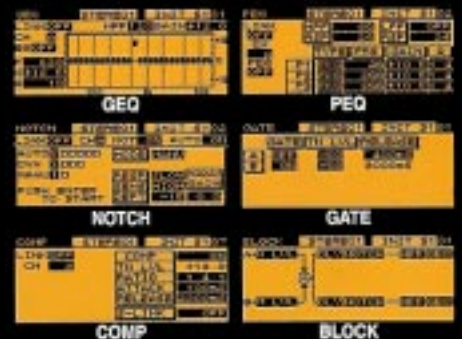


## *2-input 2-output*

## *6 Functions 2 Modes*

**The WZ-DE45 is a digital multi equalizer with two inputs and two outputs.**

- The six functions, including the graphic equalizer function, parametric equalizer function, delay function, notch filter function, compressor/limiter function, and noise gate function that are required for an acoustic system, are all built into this unit.
- Two modes are available to suit a specific purpose of use through combination of the basic functions.
- Apart from general analog inputs and outputs, this multi equalizer has a digital audio interface and conforms to the AES/EBU format.
- 24-bit A/D and D/A converters are employed for analog inputs and outputs to offer a dynamic range close to that of an analog device.
- The notch filter can be automatically set to match the sound field, handling howling peculiar to specific sound fields efficiently with the auto notch function. The dynamic notch function following the howling frequency in realtime, taking care of unexpected howling such as when a microphone is removed.
- All settings can be saved in up to 16 patterns in the memory.



# RAMSA

# Digital Multi Equalizer WZ-DE45

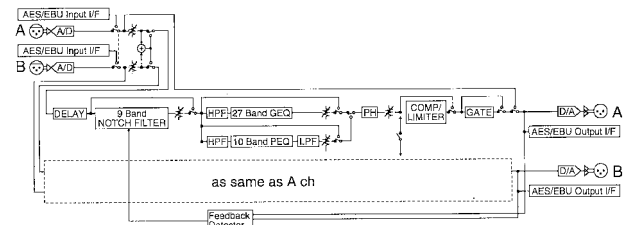
## Specifications

		WZ-DE45NL	WZ-DE45NH	
Input	No. of channels	2 ch		
	<b>Analog</b>			
	Type:	Electronic balance		
	Rated input:	+4 dB		
	Maximum input:	+24 dB or more		
	Connector:	XLR-3-31 or equivalent, x2		
	Input impedance:	20 k $\Omega$		
	In-phase reject ratio:	40 dB or more		
	A/D converter:	24-bit $\Delta - \Sigma$ type		
	<b>Digital</b>			
	Type:	AES/EBU format, for professional use		
	Sampling frequency:	48 kHz $\pm$ 0.1%		
	Connector:	XLR-3-31 or equivalent, 1 connector		
	Output	No. of channels	2 ch	
<b>Analog</b>				
Type:		Electronic balance		
Rated output:		+4 dB $\pm$ 1 dB		
Maximum output:		+24 dB or more (at 10 k $\Omega$ load)		
Output impedance:		150 $\Omega$		
Connector:		XLR-3-32 or equivalent, 4 connectors		
Applicable load impedance:		600 $\Omega$ or more		
D/A converter:		24-bit $\Delta - \Sigma$ type		
<b>Digital</b>				
Type:		AES/EBU format, for professional use		
Sampling frequency:		48 kHz		
Connector:		XLR-3-31 or equivalent, 1 connector (Recommended cable: Canare Electric DA206 or equivalent)		
General		Frequency response:	20 to 20,000 Hz, +0.5, -1.0 dB	
	Dynamic range:	Analog input/output (typ, IHF-A) 115 dB (noise gate ON) 109 dB (noise gate OFF)		
	THD	0.015% at +4 dB, 20 to 20,000 Hz, 30 kHz LPF (at 600 $\Omega$ load)		
	Crosstalk:	70 dB or more (10 kHz)		
User memory	16 memories + 1 simple memory			
External control	Type:	RS-485 RAMSA-NET (See Note.)		
	Connector:	D-SUB 9-pin, IN/OUT 1 each, setscrew M2.6 Recommended connectors Male: OMRON XM2A-0901 or equivalent Female: OMRON XM2D-0901 or equivalent Hood: OMRON XM2S-0911 or equivalent		
Pattern control	Type:	Make contact type, No. of control patterns: 12 + MUTE, BYPASS Anti-reverse diode provided		
	Connector:	D-SUB 15-pin, setscrew M2.6 Recommended connectors Male: OMRON XM2A-1501 or equivalent Hood: OMRON XM2S-1511 or equivalent		
Power supply:	AC110V-AC120V 50/60 Hz		AC220V-AC240V 50/60 Hz	
Power consumption:	16 W (as defined in the Electrical Appliances Control Act)			
Heat flow:	16 W (12 kcal) * The figure in parentheses is calorific value per hour.			
Stacking conditions:	2 units high maximum * If you are using 3 units or more, leave a space for a unit or more every 2 units.			
Dimensions:	480 (W) x 44 (H) x 280 (D) mm (without rubber feet)			
Weight	4.5 kg			

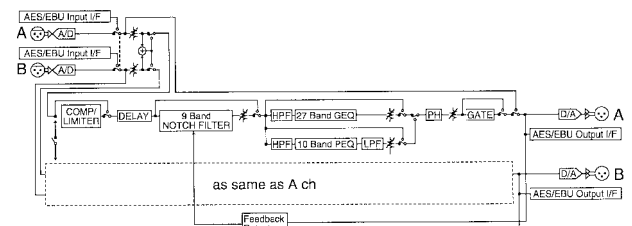
Note: "RAMSA-NET" is a protocol exclusive to Matsushita Communication Industrial Co., Ltd., used to send and receive data between the host computer and two or more audio control units connected to it with communication lines.

## Block Diagram

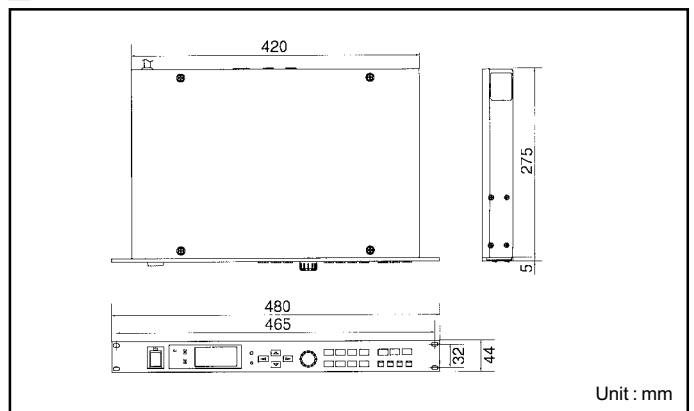
### MODE : STEREO 1 (POST COMP)



### MODE : STEREO 2 (PRE COMP)



## Dimension



Weights and dimensions indicated are approximate. Specifications are subject to change without notice.

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11 Changi North Street 1  
#02-01/02 Changi North Industrial Estate  
Singapore 498823  
Tel: (+65) 62140146 / 7  
Fax: (+65) 62141606  
E-mail: [aeonline@singnet.com.sg](mailto:aeonline@singnet.com.sg)  
Website: [www.ane.com.sg](http://www.ane.com.sg)

**Panasonic**

Panasonic is the brandname of Matsushita Electric.  
Printed in Japan  
(IN-666)