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PM5D, PM5D-RH

Outline		PM5D	PM5D-RH
Mixing capability	Mixing channels	48 Mono + 8 Stereo	48 Mono + 4 Stereo
	GROUP	24 Mix (Group/AUX) busses	24 Mix (Group/AUX) busses
	AUX	24 Mix (Group/AUX) busses	24 Mix (Group/AUX) busses
	MAIN	Stereo A, Stereo B	Stereo A, Stereo B
	MATRIX	8	8
	DCA/VCA	8 (Output grouping also available at Group 7 and 8)	8 (Output grouping also available at Group 7 and 8)
	Input channel functions	Delay, HPF, Attenuator, 4-band PEQ, 2x Dynamics	Delay, HPF, Attenuator, 4-band PEQ, 2x Dynamics
	Output channel functions	8-band PEQ, Dynamics	8-band PEQ, Dynamics
I/O	On-board processors	8x SPX multi effectors, 12x 31-band GEQ	8x SPX multi effectors, 12x 31-band GEQ
	Mic inputs	48	48 (Recallable)
	Phantom power	+48V DC; ON/OFF per channel	+48V DC; ON/OFF per channel
	Line inputs	4x Stereo, 2x 2tr in	4x Stereo (Compliant with mic input), 2x 2tr in
	AD converter	24-bit; 128-time over sampling	24-bit; 128-time over sampling
	Line outputs	36 Omni output, Monitor out and Cue output	36 Omni output, Monitor out and Cue output
	DA converter	24-bit; 128-time over sampling	24-bit; 128-time over sampling
	Digital I/O	3x 2tr in/out, Cascade in/out	3x 2tr in/out, Cascade in/out
	Expansion slots	4x Mini-YGDAI (16-in/16-out)	4x Mini-YGDAI (16-in/16-out)
Control and others	To Host(USB), GPI, HA remote, RS422 remote, Time code in, Word clock I/O, 3x Lamp, PCMCIA slot	To Host(USB), GPI, HA remote, RS422 remote, Time code in, Word clock I/O, 3x Lamp, PCMCIA slot	
General specifications		PM5D	PM5D-RH
Internal processing		32bit, Accumulator: 58bit	32bit, Accumulator: 58bit
Sampling frequency rate	Internal	44.1kHz, 48kHz, 88.2kHz, 96kHz	44.1kHz, 48kHz, 88.2kHz, 96kHz
	External	44.1kHz/88.2kHz (-10%) - 48kHz/96kHz (+6%)	44.1kHz/88.2kHz (-10%) - 48kHz/96kHz (+6%)

Signal delay		Less than 2.5ms (@48kHz), Less than 1.25ms (@96kHz)	Less than 2.5ms (@48kHz), Less than 1.25ms (@96kHz)
Total harmonic distortion		Less than 0.05% (20Hz- 40kHz)	Less than 0.05% (20Hz- 40kHz)
Frequency response		0, +0.5, -1.5dB 20Hz-40kHz	0, +0.5, -1.5dB 20Hz-40kHz
Dynamic range		DA: 110dB; AD+DA: 108dB	DA: 110dB; AD+DA: 108dB
Hum & noise level	Equivalent input noise	-128dBu	-128dBu
	Residual output noise	-86dBu	-86dBu
Crosstalk		-80 dB Adjacent Input Channels (INPUT1-48)	-80 dB
Power requirements		Use PW800W	Use PW800W
Power consumption		600W (when use with PW800W)	660W (when use with PW800W)
Dimensions	W	1551mm; 61-1/16in	1551mm; 61-1/16in
	H	283mm; 11-1/8in	283mm; 11-1/8in
	D	950mm; 37-3/8in	950mm; 37-3/8in
Net weight		98kg; 216.1lb	97kg; 213.8lb
Accessories		Owner's manual, 3x Gooseneck lamp, DC power cable	Owner's manual, 3x Gooseneck lamp, DC power cable

DSP5D

Outline		DSP5D
Mixing capability	Mixing channels	48 Mono + 4 Stereo
	GROUP	24 Mix (Group/AUX) busses
	AUX	24 Mix (Group/AUX) busses
	MAIN	Stereo A, Stereo B
	MATRIX	8
	DCA/VCA	8 (Output grouping also available at Group 7 and 8)
	Input channel functions	Delay, HPF, Attenuator, 4-band PEQ, 2x Dynamics
	Output channel functions	8-band PEQ, Dynamics
	On-board processors	8x SPX multi effectors, 12x 31-band GEQ
I/O	Mic inputs	48 (Recallable)
	Phantom power	+48V DC; ON/OFF per channel
	Line inputs	4x Stereo (Compliant with mic input), 2x 2tr in
	AD converter	24-bit; 128-time over sampling
	Line outputs	24 omni output
	DA converter	24-bit; 128-time over sampling
	Digital I/O	2x Cascade in/out
	Expansion slots	2x Mini-YGDAL (16-in/16-out)
	Control and others	Ethernet, Word clock I/O
General specifications		DSP5D
Internal processing		32bit, Accumulator: 58bit
Sampling frequency rate	Internal	44.1kHz, 48kHz, 88.2kHz, 96kHz
	External	44.1/48/88.2/96kHz (±2.5%)
Signal delay		Less than 2.5ms (@48kHz), Less than 1.25ms (@96kHz)
Total harmonic distortion		Less than 0.05% (20Hz-40kHz)
Frequency response		0, +0.5, -1.5dB 20Hz-40kHz
Dynamic range		DA: 110dB; AD+DA: 108dB

Hum & noise level		Equivalent input noise	-128dBu
		Residual output noise	-86dBu
Crosstalk			-80 dB
Power requirements			AC100-240V 50/60Hz, and/or Use PW800W
Power consumption			300W, 375W (When use with PW800W)
Dimensions	W	480mm; 18-7/8in	
	H	440mm; 17-5/16in	
	D	460mm; 18-1/8in	
Net weight			38kg; 83.8lbs
Accessories			Owner's manual, AC power cord, 2x D-sub 68pin digital audio cable (10m)

Analog input characteristics

Analog input characteristics (PM5D)

Input terminal			Actual load impedance	For use with nominal	GAIN SW	Input level			Connector
	PAD	GAIN				Sensitivity	Nominal	Max. before clip	
INPUT	0	-60dB	3kohms	50-600ohm Mics & 600ohm Lines	-	-80dBu	-60dBu	-40dBu	XLR3-31 type
		-16dB			-	-36dBu	-16dBu	+4dBu	
	26	-			-10dBu	+10dBu	+30dBu		
ST IN 1-4[L,R]		-34dB	4kohms	600ohm Lines	-	-54dBu	-34dBu	-14dBu	XLR3-31 type
		+10dB			-	-10dBu	+10dBu	+30dBu	
INSERT IN 1-48			10kohms	600ohm Lines	-	-16dBu	+4dBu	+24dBu	TRS Phone jack
2TR IN ANALOG 1,2[L,R]			10kohms	600ohm Lines	+24dB (+18dB)	-6dBu (-12dBu)	+4dBu (-2dBu)	+24dBu (+18dBu)	XLR3-31 type
TALKBACK			3kohms	50-600ohm Mics & 600ohm Lines		-60dBu	-50dBu	-30dBu	XLR3-31 type

Analog input characteristics (PM5D-RH)

Input terminal		Actual load impedance	For use with nominal	GAIN SW	Input level			Connector
	GAIN				Sensitivity	Nominal	Max. before clip	
INPUT 1-48 & ST IN 1-4[L,R]	-62dB	3kohms	50-600 ohm Mics & 600ohm Lines	-	-82dBu	-62dBu	-42dBu	XLR3-31 type
	+10dB			-	-10dBu	+10dBu	+30dBu	
2TR IN ANALOG 1,2[L,R]		10kohms	600 ohms Lines	+24dB +18dB	-6dBu (-12dBu)	+4dBu (-2dBu)	+24dBu (+18dBu)	XLR3-31 type
TALKBACK		3kohms	50-600 ohm Mics & 600ohm Lines	-	-60dBu	-50dBu	-30dBu	XLR3-31 type

Analog input characteristics (DSP5D)

Input terminal		Actual load impedance	For use with nominal	Input level			Connector
	GAIN			Sensitivity	Nominal	Max. before clip	
INPUT 1-48 & ST IN 1-4[L,R]	-62dB	3kohms	50-600ohm Mics & 600ohm Lines	-82dBu	-62dBu	-42dBu	XLR3-31 type
	+10dB			-10dBu	+10dBu	+30dBu	

Analog output characteristics

Analog output characteristics (PM5D, PM5D-RH)

Output Terminal	Actual source impedance	For use with nominal	GAIN SW	Output level		Connector
				Nominal	Max. before clip	
STEREO A,B[L,R]	75ohms	600ohm Lines	+24dB +18dB	+4dBu -2dBu	+24dBu +18dBu	XLR-3-32 type
MONITOR OUT[L,R,C]	75ohms	600ohm Lines	+24dB +18dB	+4dBu -2dBu	+24dBu +18dBu	XLR-3-32 type
CUE OUT[L,R]	75ohms	600ohm Lines	+24dB +18dB	+4dBu -2dBu	+24dBu +18dBu	XLR-3-32 type
MATRIX OUT 1-8	75ohms	600ohm Lines	+24dB +18dB	+4dBu -2dBu	+24dBu +18dBu	XLR-3-32 type
MIX OUT 1-24	75ohms	600ohm Lines	+24dB +18dB	+4dBu -2dBu	+24dBu +18dBu	XLR-3-32 type
INSERT OUT 1-48	150ohms	10kohm Lines	-	+4dBu	+24dBu	TRS Phone jack
PHONES	15ohms	8ohm Phones	-	75mW	150mW	ST Phone jack
		40ohm Phones	-	65mW	150mW	

Analog output characteristics (DSP5D)

Output Terminal	Actual source impedance	For use with nominal	GAIN SW	Output level		Connector
				Nominal	Max. before clip	
OMNI OUT	75ohms	600ohm Lines	+24dB +18dB	+4dBu -2dBu	+24dBu +18dBu	XLR-3-32 type

Digital input characteristics

Digital input characteristics (PM5D, PM5D-RH)

Terminal		Format	Data length	Level	Connector	
2TR IN DIGITAL with SRC	1	AES/EBU	AES/EBU (Professional Use)	24bit	RS422	XLR3-31 type
	2	AES/EBU	AES/EBU (Professional Use)	24bit	RS422	XLR3-31 type
	3	COAXIAL	IEC-60958 (Consumer Use)	24bit	0.5Vpp/75ohms	RCA pin jack
CASCADE IN			-	-	RS422	D-sub Half Pitch Connector 68Pin (female)

Digital input characteristics (DSP5D)

Terminal	Format	Data length	Level	Connector
CASCADE IN*1	-	-	RS422	D-sub Half Pitch Connector 68Pin (female)
CASCADE IN*2	-	-	100Base-TX	etherCON CAT5

*1: Max. cable length: 200m @48kHz, 50m @96kHz

*2: Max. cable length is based on EtherSound standard

Digital output characteristics

Digital output characteristics (PM5D, PM5D-RH)

Terminal		Format	Data length	Level	Connector	
2TR OUT DIGITAL	1	AES/EBU	AES/EBU (Professional Use)	24bit	RS422	XLR3-32 type (Balanced)
	2	AES/EBU	AES/EBU (Professional Use)	24bit	RS422	XLR3-32 type (Balanced)
	3	COAXIAL	IEC-60958 (Consumer Use)	24bit	0.5Vpp/75ohms	RCA pin jack
CASCADE OUT			-	-	RS422	D-sub Half Pitch

Digital output characteristics (DSP5D)

Terminal	Format	Data length	Level	Connector
CASCADE OUT*1	-	-	RS422	D-sub Half Pitch Connector 68Pin (female)
CASCADE OUT*2	-	-	100Base-TX	etherCON CAT5

*1: Max. cable length: 200m @48kHz, 50m @96kHz

*2: Max. cable length is based on EtherSound standard

Control I/O characteristics

Control I/O characteristics (PM5D, PM5D-RH)

Terminal	Format	Level	Connector	
TO HOST	USB	USB1.1	0V-3.3V	B type USB Connector
	IN	MIDI	-	DIN-5pin
	OUT	MIDI	-	DIN-5pin
	THRU	MIDI	-	DIN-5pin
TIME CODE IN	SMPTE	SPMTE	0.3Vpp(min.)/10Vpp(max.), 10kohms	XLR-3-31 type
WORD CLOCK	IN	-	TTL/75ohms(ON/OFF)	BNC
	OUT	-	TTL/75ohms	BNC
GPI	-	-	-	D-sub 25pin(female)
HA REMOTE	-	-	RS422	D-sub 9pin(male)
RS422 REMOTE	-	-	RS422	D-sub 9pin(female)
KEYBOARD	PS/2	-	-	DIN 6pin
MOUSE	PS/2	-	-	DIN 6pin
LAMP 1, 2, 3	-	-	2.5V-11.5V	XLR-4-31 type
MEMORY CARD	-	-	-	PCMCIA (Compact Flash)

Control I/O characteristics (DSP5D)

Terminal	Format	Level	Connector	
WORD CLOCK	IN	-	TTL/75ohms	BNC
	OUT	-	TTL/75ohms	BNC
Ethernet	10Base / 100Base-TX	10Base / 100Base-TX	-	etherCON CAT5

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