



OIV 96
DIGITAL MIXING CONSOLE
Version 2



Specifications

GENERAL SPECIFICATIONS

Internal Signal Processing	32-bit (Accumulator 58-bit)	
Sampling Frequency	Internal External	44.1 kHz, 48 kHz, 88.2 kHz, 96 kHz Normal rate 44.1 kHz -10% - 48 kHz + 6% Double rate 88.2 kHz -10% - 96 kHz + 6%
Signal Delay	≤1.6 ms CH INPUT to STEREO OUT (@Sampling frequency = 48 kHz) ≤0.8 ms CH INPUT to STEREO OUT (@Sampling frequency = 96 kHz)	
Fader	100 mm motorized x 17	
Total Harmonic Distortion* Input Gain=Min.	CH INPUT to STEREO OUT ≤0.05% 20 Hz to 20 kHz @+14 dB into 600Ω ≤0.01% 1 kHz @+24 dB into 600Ω (@Sampling frequency = 48 kHz) ≤0.05% 20 Hz to 40 kHz @+14 dB into 600Ω ≤0.01% 1 kHz @+24 dB into 600Ω (@Sampling frequency = 96 kHz)	
Frequency Response	CH INPUT to STEREO OUT 0.5, -1.5 dB 20 Hz - 20 kHz @ + 4 dB into 600Ω (@Sampling frequency = 48 kHz) 0.5, -1.5 dB 20 Hz - 40 kHz @ + 4 dB into 600Ω (@Sampling frequency = 96 kHz)	
Dynamic Range (maximum level to noise level)	110 dB typ. DA Converter (STEREO OUT) 105 dB typ. AD+DA (to STEREO OUT) @fs = 48 kHz 105 dB typ. AD+DA (to STEREO OUT) @fs = 96 kHz	
Hum & Noise** (20 Hz-20 kHz) Rs = 150Ω Input Gain = Max. Input Pad = 0 dB	-128 dB equivalent input noise -86 dB residual output noise. STEREO OUT STEREO OUT off -86 dB (90 dB S/N) STEREO OUT STEREO fader at nominal level and all CH INPUT faders at minimum level -64 dB (68 dB S/N) STEREO OUT STEREO fader at nominal level and one CH INPUT fader at nominal level	
Input Sensitivity = -60 dB		
Maximum Voltage Gain	74 dB CH INPUT (CH1-12) to STEREO OUT/OMNI (BUS) OUT	

	40 dB CH INPUT (CH13-16) to STEREO OUT 74 dB CH INPUT (CH1-12) to OMNI (AUX) OUT (via pre input fader) 74 dB CH INPUT (CH1-16) to MONITOR OUT (via STEREO BUS)			
Crosstalk (@1 kHz) Input Gain = Min.	80 dB adjacent input channels (CH1-2) 80 dB adjacent input channels (CH13-6) 80 dB input to output			
Power Requirements	U.S/Canada Others	120 V 220-240 V	90 W 90 W	60 Hz 50/60 Hz
Dimensions	430 (W) x 540 (D) x 150 (H) mm			
Net Weight	15 kg			
Operating free-air temperature range	10 - 35°C			
Storage temperature range	-20 - 60°C			
Accessories	AC Cable, CD-ROM (Studio manager)			
Option	Digital interface card (MY16, MY8, MY4 series), RACK MOUNT KIT: RK-1			

* Total Harmonic Distortion is measured with a 6 dB/octave filter @80 kHz.

** Hum & Noise are measured with a 6 dB/octave filter @12.7 kHz; equivalent to a 20 kHz filter with infinite dB/octave attenuation.

Libraries	Number of factory presets	Number of user libraries
Effect libraries (EFFECT1-4)	44	76
Compressor libraries	36	92
Gate libraries	4	124
EQ libraries	40	160
Channel libraries	2	127
Input patch libraries	1	32
Output patch libraries	1	32
Number of scene memories	99	

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ANALOG INPUT CHARACTERISTICS

Input Terminals	PAD	GAIN	Actual Load Impedance	For Use With Nominal	Input level			Connector in Console
					Sensitivity*1	Nominal	Max. before clip	
CH INPUT 1-12	0	-60dB	3k Ω	50-600 Ω Mics & 600 Ω Lines	-70 dB (0.245 mV)	-60 dB (0.775 mV)	-40 dB (7.75 mV)	A:XLR-3-31 type (Balanced) *2
		-16dB			-26 dB (38.8 mV)	-16 dB (123 mV)	+4 dB (1.23 V)	
	20	-6 dB (388 mV)			+4 dB (1.23 V)	+24 dB (12.28 V)		
CH INPUT 13-16		-26dB	10k Ω	600 Ω Lines	-36 dB (12.3 mV)	-26 dB (38.8 mV)	-6 dB (388 mV)	Phone Jack (TRS) (Balanced) *3
		+4dB			-6 dB (388 mV)	+4 dB (1.23 V)	+24 dB (12.28 V)	
CH INSERT IN 1-12			10k Ω	600 Ω Lines	-6 dB (388 mV)	+4 dB (1.23 V)	+24 dB (12.28 V)	Phone Jack (TRS) (Unbalanced) *4
2TR IN [L, R]			10k Ω	600 Ω Lines	-10 dBV (316 mV)	-10 dBV (316 mV)	+10 dBV (3.16 V)	RCA Pin Jack (Unbalanced)

*1 Sensitivity is the lowest level that will produce an output of + 4 dB (1.23 V) or the nominal output level when the unit is set to maximum gain. (all faders and level controls are maximum position.)

*2 XLR-3-31 type connectors are balanced. (1 = GND, 2 = HOT, 3 = COLD)

*3 Phone jacks are balanced. (Tip = HOT, Ring = COLD, Sleeve = GND)

*4 CH INSERT IN/OUT phone jacks are unbalanced. (Tip = OUTPUT, Ring = INPUT, Sleeve = GND)

- In these specifications, when dB represents are specific voltage, 0 dB is referenced to 0.775 Vrms.
- For 2TR IN levels, 0 dBV is referenced to 1.00 Vrms.
- All input AD converters (CH INPUT 1-6) are 24bit linear, 128times oversampling (@fs = 44.1, 48 kHz).
- +48 V DC (phantom power) is supplied to CH INPUT 1-2 XLR type connectors.
3 PHANTOM + 48 V switches CH1-4, 5-8, 9-12 turn on the phantom power for inputs 1-4, 5-8, 9-12 respectively.
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ANALOG OUTPUT CHARACTERISTICS

Output Terminals	Actual Source Impedance	For Use With Nominal	Output Level		Connector in Console
			Nominal	Max. before clip	
STEREO OUT [L, R]	150Ω	600Ω Lines	+4 dB (1.23 V)	+24 dB (12.28 V)	XLR-3-32 type (Balanced) *1
OMNI OUT 1-4	150Ω	10kΩ Lines	+4 dB (1.23 V)	+24 dB (12.28 V)	Phone Jack (TRS) (Balanced) *2
MONITOR OUT [L, R]	150Ω	10kΩ Lines	+4 dB (1.23 V)	+24 dB (12.28 V)	Phone Jack (TRS) (Balanced) *2
CH INSERT OUT 1-12	600Ω	10kΩ Lines	+4 dB (1.23 V)	+24 dB (12.28 V)	Phone Jack (TRS) (Unbalanced) *3
2TR OUT [L, R]	10kΩ	600Ω Lines	-10 dBV (316 mV)	+10 dBV (3.16 V)	RCA Pin Jack (Unbalanced)
PHONES	100Ω	8Ω Phones	4 mW	25 mW	Stereo Phone Jack (TRS) (Unbalanced) *4
		40Ω Phones	12 mW	75 mW	

*1 XLR-3-32 type connectors are balanced. (1 = GND, 2 = HOT, 3 = COLD)

*2 Phone jacks are balanced. (Tip = HOT, Ring = COLD, Sleeve = GND)

*3 CH INSERT IN/OUT phone jacks are unbalanced. (Tip = OUTPUT, Ring = INPUT, Sleeve = GND)

*4 PHONES stereo phone jack is unbalanced. (Tip = LEFT, Ring = RIGHT, Sleeve = GND)

- In these specifications, when dB represents are specific voltage, 0 dB is referenced to 0.775 Vrms.
- 2TR OUT [L, R], 0 dBV is referenced to 1.00 Vrms.
- All output DA converters are 24 bit, 128 times oversampling (@fs = 44.1, 48 kHz).
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DIGITAL INPUT CHARACTERISTICS

Terminal	Format	Data Length	Level	Connector in Console
2TR IN DIGITAL	IEC-60958	24 bit	0.5 Vpp/75Ω	RCA Pin Jack

ADAT IN	ADAT *1	24 bit	-	OPTICAL
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*1 ALESIS Proprietary Multi-channel Optical Digital Interface Format.

DIGITAL OUTPUT CHARACTERISTICS

Terminal	Format	Data Length	Level	Connector in Console
2TR OUT DIGITAL	IEC-60958 *1 Consumer use	24 bit *2	0.5 Vpp/75Ω	RCA Pin Jack
ADAT OUT	ADAT *3	24 bit	-	OPTICAL

*1 channel status of 2TR OUT DIGITAL

type : linear PCM

category code : Digital signal mixer

copy prohibit : NO

emphasis : NO

clock accuracy : Level II (1000 ppm)

sampling rate : depends on the internal configuration

*2 dither : word length 16/20/24 bit

*3 ALESIS Proprietary Multi-channel Optical Digital Interface Format.

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CONTROL I/O CHARACTERISTICS

Terminal	Format	Level	Connector in Console
TO HOST USB	USB	0 V - 3.3 V	B type USB connector
MIDI	IN *1	MIDI	-
	OUT	MIDI	-
	THRU	MIDI	-
WORD CLOCK	IN	-	TTL/ 75Ω
	OUT	-	TTL/ 75Ω

*1 MIDI IN can use as TIME CODE IN MTC.

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