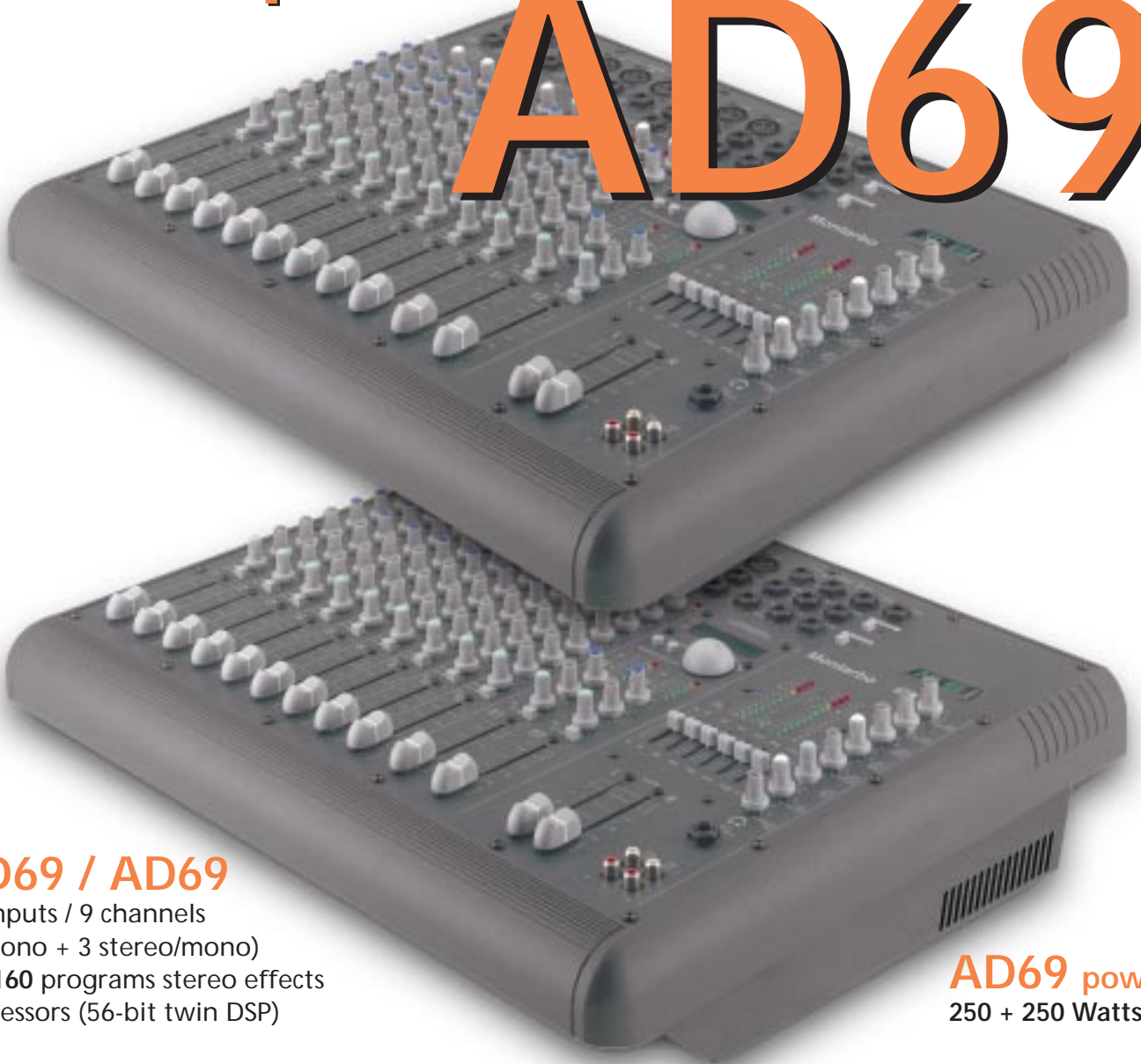


stereo mixer

XD69

stereo powered mixer

AD69



XD69 / AD69

12 inputs / 9 channels
(6 mono + 3 stereo/mono)
2 x 160 programs stereo effects
processors (56-bit twin DSP)

AD69 powered
250 + 250 Watts

processor controlled mixers with built-in 2 x 160 programs stereo multieffects processor

As a musical instrument, mixing consoles become part of your unique sound. And as music styles change, technology becomes a necessity: just one effects processor is no longer enough, serious EQing is seriously needed, you want power from the amp but no hums and hisses and... Anything gets more complicated: more cables, more connections, more risk of miswiring and your time flies with the setup.

That's why we designed the XD69 mixing console and its powered version AD69.

Everything's built-in to start up the show in the shortest set-up time, with certainty of professional results.

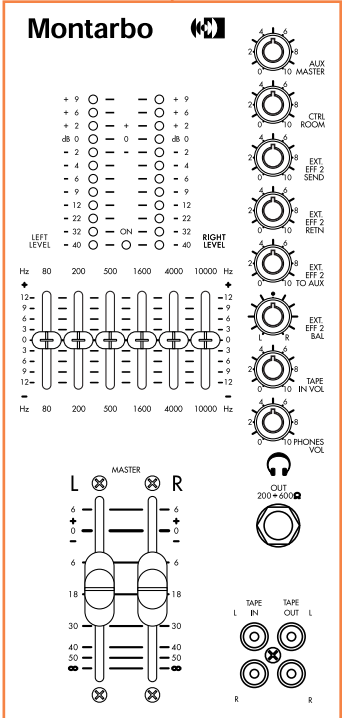
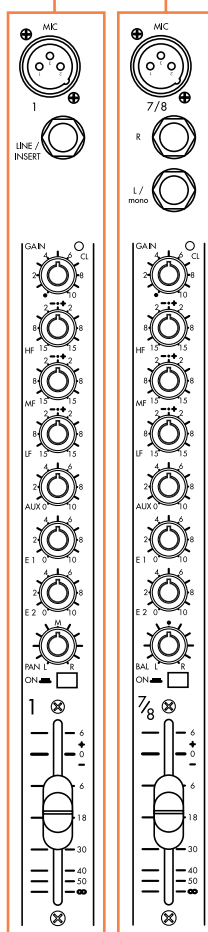
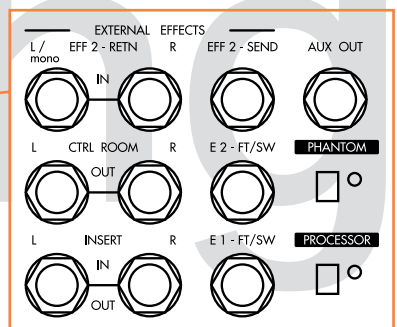
Last but not least, XD69 and AD69 are undoubtedly Montarbo's when they come to reliability and ruggedness: they are designed and built to last for years of troublefree operation, like a true professional always on your side. Show after show, year after year, the only risk is to enjoy using it. We wouldn't be surprised, in that case.

Montarbo



XD69

stereo mixer



ENGLISH

- **MONO INPUT CHANNELS:** balanced XLR MIC inputs (switchable phantom on 3 channels) plus unbalanced LINE inputs on 1/4" jacks combined with INSERT-points to process mic signals independently; peak LED (CL); wide range GAIN pot; 3-band EQ (HF/MF/LF); AUX/monitor send (pre-fade, post-eq); Internal (E1, E2) and external (E2) effect sends (post-fade, post-eq); PAN control; channel ON/off switch; 60 mm volume fader.
- **STEREO INPUT CHANNELS** XLR MIC inputs + L/R jack inputs for stereo line signals. Same controls as mono channels.
- **TWO STEREO MULTIEFFECT PROCESSORS:** the 2 built-in stereo multieffect processors, (E1 and E2) each with 160 programs and independent controls are based on a 56-bit DSP with 24-bit Delta-Sigma conversion. 2-line (E1/E2) Liquid Crystal Display; PROGRAMS selection key; E1 / E2 button allow operating on E1 or E2 lines on the LCD; LOAD button (loads the selected program); 5-segment input level LED arrays; TONE controls; AUX/monitor sends (pre-fade); stereo balance (BAL) controls; ON switches; 60 mm volume faders; FOOTSWITCH jacks for remote control of the 2 effects processors (E1 and E2 FT/SV)
- **MASTER SECTION:** 6-band stereo graphic EQ; external effect send (EXT. EFF 2 SEND); stereo return (EXT. EFF 2-RETN) assignable to the aux (EXT. EFF 2 TO AUX) and L/R (EXT EFF 2 BAL) master outputs with independent controls; AUX output with volume control (AUX MASTER); CONTROL ROOM stereo output, with independent volume control (to feed a second PA while performing live, allowing different sound levels for different audiences); L/R INSERT sockets for auxiliary equipment or further external amplification; L/R TAPE IN/OUT with TAPE IN volume; output and level control (PHONES VOL) for stereo phones; PROCESSOR: this button activates an internal processor allowing to obtain a 'full-bodied' sound even with a soft sound level (very useful when performing in clubs, small venues etc.).

Besides these features, the AD69 incorporates two MosFet power units (250 + 250 W) with XLR and Jack output sockets, cooling fan and advanced protection circuitry providing a clean, reliable power with maximum accuracy even at the highest levels.

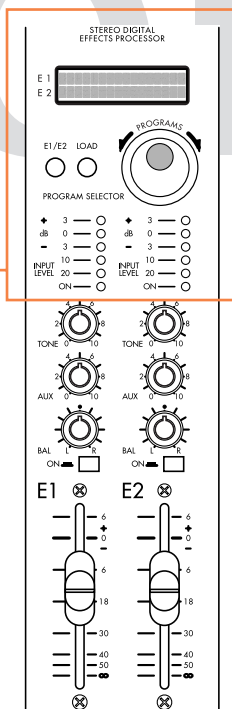
FRANCAIS

- **CANAUX D'ENTRÉE MONO** entrées MIC symétriques XLR (avec phantom sur 3 canaux); entrée LINE asymétrique (sur jack), utilisable en tant que INSERT pour le traitement individuel des signaux microphoniques avec n'importe quel outboard extérieur; LED de crête (CL); réglage du GAIN; égaliseur à 3 bandes (HF/MF/LF); départ AUX/moniteur (pre-fade, post-eq); départs effets internes (E1 et E2) et externe E2 (post-fade, post-eq); contrôle PAN; poussoir ON; fader de 60 mm.
- **CANAUX D'ENTRÉE STÉRÉO** entrées MIC XLR + L/R jack pour les signaux ligne stéréo. Mêmes contrôles des canaux mono.
- **DEUX PROCESSEURS MULTIEFFETS STÉRÉO** les 2 multieffets stéréo intégrés (E1 et E2), chacun à 160 programmes, sont basés sur un puissant DSP à 56-bit avec conversion Delta Sigma à 24-bit. Affichage à cristaux liquides (à deux lignes, E1 et E2); bouton PROGRAMS; bouton E1/E2 permet de choisir si agir sur le processeur E1 ou E2; bouton LOAD (pour charger le programme sélectionné); rampes niveaux d'entrées à 5 LED; contrôles de tonalité (TONE); départs AUX/moniteur (pre-fade); balancement stéréo (BALANCE); poussoirs ON; faders de 60 mm; prises jack FOOTSWITCH (E1 et E2 FT/SV) pour interrupteurs à pédale des deux effets.
- **SECTION MASTER:** EQ stéréo à 6 bandes; départ effet externe (EXT. EFF 2 SEND); retour stéréo (EXT. EFF 2-RETN) dirigeable vers les sorties aux (EXT. EFF 2 TO AUX) et master (EXT EFF 2 BAL) avec contrôles indépendants; sortie aux/moniteur, avec volume indépendant (AUX MASTER); sortie stéréo CONTROL ROOM, avec volume indépendant (tres utile pour piloter des baffles actifs à un volume différent); prises INSERT L/R IN/OUT pour accessoires externes (peuvent être utilisées pour relier des enceintes amplifiées); L/R TAPE IN/OUT, avec volume d'entrée (TAPE IN); sortie PHONES stéréo avec contrôle de niveau (PHONES VOL); poussoir PROCESSOR pour activer le processeur incorporé que permet d'obtenir un son 'corsé' même à un bas niveau d'écoute.

En plus, AD69 est doté de deux amplificateurs MosFet (de 250 + 250 W) intégrés, processorisés, avec sorties Jack et XLR, aération forcée et circuits de protection pour assurer une précision sonore absolue même aux puissances maximum.

AD69 stereo powered mixe

onsol



ESPAÑOL

• CANALES DE ENTRADA MONO:
 entrada microfónica (MIC) balanceada XLR (phantom activable en 3 canales); entrada de línea (LINE) desbalanceada jack, utilizable también como INSERT; regulación de GAIN; indicador luminoso de pico (CL); EQ de 3 bandas (HF/MF/LF); envío AUX/monitor (pre-fade, post-eq); envíos (post-fade, post-eq) efectos internos (E1 y E2) y externos (E2); control de la estereofonía (PAN); botón ON/off; atenuador de 60 mm.

• CANALES DE ENTRADA ESTÉREO:
 entrada microfónica XLR (MIC) + entradas jack L y R para la señal de LINEA estéreo. Mismas dotaciones de los canales mono.

• DOS PROCESADORES MULTIEFFECTO ESTÉREO
 los 2 procesadores incorporados, cada uno con 160 programas, son dotados de un DSP de 56 bit con conversión Delta/Sigma de 24 bit. Display con cristales líquidos (de dos líneas, E1 y E2); botón regulador PROGRAMS que permite seleccionar los programas; pulsador E1/E2 que permite pasar de la línea E1 a la E2 en el display; pulsador LOAD que permite cargar el programa seleccionado; 2 rampas de LED para el nivel de entrada; controles de tono (TONE); envíos AUX/monitor (pre-fade); controles BAL por el balance de los efectos estéreo en las salidas master L/R; pulsadores ON/off; atenuadores de 60 mm; tomas jack para conmutadores de pedales (E1 y E2 FT/SW).

• SECCIÓN MASTER

ecualizador gráfico estéreo de 6 bandas; envío de efecto externo (EXT. EFF 2 SEND); retorno estéreo (EXT. EFF 2-RETN) dirigible a las salidas master (EXT EFF 2 BAL) y monitor, (EXT. EFF 2 TO AUX) con mandos indepen dientes); salida aux/monitor con volumen independiente (AUX MASTER); salida estéreo CONTROL ROOM (duplicación de la salida master) con volumen independiente; sirve para pilotar un segundo equipo de amplificación o los monitores near-field; tomas INSERT L/R IN/OUT para conectar accesorios externos o cajas amplificadas; tomas L/R TAPE IN/OUT para grabador estéreo con volumen de entrada (TAPE IN); salida para casco estéreo, con control de nivel (PHONES VOL); botón PROCESSOR para activar el procesador, incorporado, que permite obtener un sonido 'corpudo' también con volúmenes bajos.

Además de estas dotaciones, el AD69 tiene dos amplificadores MosFet (250+250 W) incorporados que tienen salidas XLR y jack, ventilación forzada y están controlados por sofisticados circuitos de protección para asegurar la máxima precisión sonora incluso a las potencias máximas.

ITALIANO

• CANALI DI INGRESSO MONO

ingressi MIC bilanciati XLR (phantom inseribile su 3 canali); ingressi LINE sbilanciati su Jack, utilizzabili anche come INSERT; regolazione guadagno (GAIN); indicatore LED di picco (CL); EQ a 3 bande (HF/MF/LF); mandata AUX/monitor (pre-fade, post-eq); mandate effetti interni (E1 et E2) ed esterni E2 (post-fade, post-eq); controllo panorama (PAN); interruttore ON/off; fader da 60 mm.

• CANALI DI INGRESSO STEREO

ingressi XLR MIC + ingressi jack LINE L/R per i segnali di linea stereo. Stesse dotazioni dei canali mono.

• DUE PROCESSORI MULTIEFFETTO STEREO
 i 2 processori stereo incorporati, con 160 programmi ciascuno si basano su un DSP a 56 bit con conversione Delta Sigma a 24 bit. display a cristalli liquidi (su 2 righe, E1 ed E2); manopola PROGRAMS per la selezione dei programmi; pulsante E1/E2 che consente di passare dal processore E1 a E2 sul display; pulsante LOAD per caricare il programma selezionato; rampe a 5 LED per i livelli di ingresso (INPUT LEVEL); controlli di TONO; mandate AUX/monitor (pre-fade); controlli BAL per bilanciare gli effetti stereo sui master L/R; interruttore ON; fader da 60 mm; prese jack per interruttore a pedale (E1 ed E2 FT/SW).

• SEZIONE MASTER:

equalizzatore grafico stereo a 6 bande; mandata effetto esterno EXT. EFF 2 SEND; ritorno effetto esterno EXT. EFF 2-RETN indirizzabile alle uscite ausiliaria (EXT. EFF 2 TO AUX) e master L/R (EXT EFF 2 BAL); uscita aux/monitor con volume indipendente (AUX MASTER); uscita stereo CONTROL ROOM con volume indipendente (utilissima nel pianobar per pilotare un secondo impianto di amplificazione, o casse attive, a volume diverso); prese INSERT L/R IN/OUT per accessori esterni o casse amplificate; ingresso/uscita stereo per registratore L/R TAPE IN/OUT, con volume d'ingresso (TAPE IN); uscita cuffia stereo, con controllo di livello indipendente (PHONES VOL); tasto PROCESSOR che attiva un processore in grado di modificare il contenuto armonico delle uscite master L ed R consentendo di ottenere un suono 'corposo' anche a livelli di ascolto bassi (molto utile quindi per piano-bar e simili).

Oltre a queste dotazioni AD69 incorpora due finali di potenza a MosFet (250+250 W), che dispongono di uscite XLR e Jack, ventilazione forzata e sofisticati circuiti di protezione per assicurare la massima precisione sonora anche alle massime potenze.

DEUTSCH

• MONO EINGANGSKANÄLE:

symmetrische XLR-MIC-Eingänge (schaltbare Phantom auf 3 Kanäle) und unsymmetrische LINE-Eingänge (1/4" Klinken-Buchse), die auch als INSERT benutzbar sind; GAIN-Poti; Übersteuerungs-LED (CL); 3-Band-Equalizer (HF/MF/LF); AUX/Monitor-Weg (pre-fade, post-eq); 2 Effekt-Wege für interne (E1 u. E2) und externe (E2) Effekte (post-fade, post-eq); PAN-Potentiometer; ON/off Taste; 60 mm Fader.

• STEREO EINGANGSKANÄLE:

XLR-MIC-Eingänge + L/R Klingleingänge für die Stereo LINE-Signale. Wie die Mono-Kanäle ausgestattet.

• ZWEI STEREO MULTIEFFEKT-PROZESSOREN:

Die 2 eingebauten stereo Prozessoren, je mit 160 Programmen, basieren auf einen 56-Bit DSP und verfügen über 24 Bit Delta-Sigma Konverter. Zweizeilen-Flüssigkristall-Sichtanzeige (E1/E2); PROGRAMS-Drehknopf für die Auswahl der Programme; E1/E2-Knopf zum Wählen von E1 oder E2 auf der Sichtanzeige; LOAD-Knopf zum Laden des ausgewählten Programms; 5-Segment Eingangpegels-LED-Anzeige (INPUT LEVEL); Klangregler (TONE); AUX/Monitor - Send (pre-fade, post-EQ); Balance-Regler (BAL); ON/off-Schalter; 60 mm-Fader; Klingleinbuchsen für Ein/Aus Fußschalter (E1 u. E2 FT/SW).

• SUMME-TEIL:

6-Band-Stereo Graphic EQ; Extern-Effekt-Send (EXT. EFF 2 SEND); Stereo-Return (EXT. EFF 2-RETN) mit separaten Steuerungen für die L/R (EXT EFF 2 BAL) und Aux-Sends (EXT. EFF 2 TO AUX); Aux-Ausgang mit unabhängigem Lautstärkereglern (AUX MASTER); Stereo CONTROL-ROOM-Ausgang mit eigenem Lautstärkereglern (hier liegt das gleiche Signal wie am Masterausgang, die Lautstärke kann aber unabhängig geregelt werden); INSERT L/R IN/OUT-Klingleinbuchsen für den Anschluß von externen Geräte auf der Stereo Summe oder um externe Verstärkung anzusteuern; L/R TAPE IN/OUT-Buchsen für Stereo-Tonbandgerät, mit Eingangsvolumen (TAPE IN); Ausgang für Stereokopfhörer, mit Pegelkontrolle (PHONES VOL); bei Betätigung der Taste PROCESSOR wird einen Prozessor eingeschaltet, der einen besonders 'vollen' Klang selbst bei niedrigem Lautstärkepegel ermöglicht (sehr nützlich z. B. in Clubs, Piano-Bar o.ä.).

AD69 ist die Power-Version des XD69 mit 2 MosFet Endstufen (250+250 W). Er verfügt über XLR und Klinglein-Ausgänge, Kühler und spezielle Schutzschaltungen die für optimale Klangpräzision, auch bei höchster Leistung sorgen.

XD69 - AD69

mixing

Designed and manufactured in Italy by:

Montarbo



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phone: +39 051 766437 fax: +39 051 765226
e-mail: mail@montarbo.com internet: www.montarbo.com

Specifications and features are subject to change without prior notice.
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2 x 160 PROGRAMS / EFFECTS INDEX

000 → 010 STEREO GEN. Adds a short delay to the signal to create a pseudo stereo effect out of mono sources.

011 → 030 HALO It's a digital recreation of the old magnetic Montarbo reverb. A typical 60s effect, with a real vintage character.

031 → 040 ECHO Classic multiplex effect. Delay time increases with program number.

041 → 050 ECHO + REV. Delay and reverb blended together make for the impressive effect you can listen on most contemporary productions.

051 → 060 VOICE REV. Reverbs specially tailored to enhance vocals' character.

061 → 070 PERCUSSION REV. Ambience effects that enrich both acoustic and electronic percussions. It is specially suited to sampled signals (keyboards, electronic drums, samplers..).

071 → 080 HALO + REVERB Halo and Reverb effects blended together.

081 → 089 PING PONG Basically an auto-panned delay, popular on many rock hits, the samples are being routed alternatively to full left and full right master.

090 BOUNCE This effect produces repeats whose frequency starts widely spaced to become closer and closer.

091 → 100 EARLY REFLECTIONS Adds early reflections without the decaying reverb. Useful to thicken many different sounds. It is specially suited to sampled signals (keyboards, electronic drums, samplers..).

101 → 110 STEREO FLANGER It may be considered as a very intense chorus, with two voices crossing their stereo image and with feedback acting as 'comb filter'. The frequencies corresponding to the filter's notches and peaks change continuously, producing thus the typical flanging sound.

111 → 120 STEREO CHORUS It produces a warm and rich sound. Three voices are derived from the input signal and are sent to the Left and Right channels and to the center. The result is that even the thinner voice will sound like an ensemble. It is ideal to enliven a guitar accompaniment and to 'fatten' a voice.

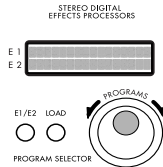
121 → 130 DETUNE Slightly after the tuning of the source to stimulating a 'doubling' effect with an increased tuning alterations.

131 → 136 DUAL PITCH A wonderful 'harmonizer' with two voices trasposing the input signal pitch in real-time. Your voice will be automatically accompanied by a chorus.

137 → 140 SINGLE PITCH Harmonizer with one voice trasposing the input signal pitch in real-time.

141 → 150 PITCH CHANGE + REV. The combination of the two effects will make your voice sound warmer and thicker. The Pitch Change will add a voice in the center of the stereo image, thus creating an harmonizer effect. A warm Plate-type Reverb effect, particularly suited to voice, is added in cascade.

151 → 160 PITCH CHANGE + REV. Unmistakably a 'must' of many 80's records, starts at low level, builds up and quit abruptly. Usually served with percussion.



XD69 / AD69 MIXER SECTION

• Mono input channels:

Micro (sensitivity / impedance)

Line (sensitivity / impedance)

Phantom power supply

Channel gain range

• Stereo input channels:

Micro (sensitivity / impedance)

Line L/R (sensitivity / impedance)

Channel gain range

• All channels:

Equalization

Equivalent input noise

Peak LED indicator

Fader (throw / attenuation)

• Dual Multieffect DSP (2 x 140 stereo effects) by Montarbo

A-D and D-A conversion

Internal DSP

Bandwidth

THD

SNR

• External effect send

Nominal level

Impedance

Max level

• External effect return

Nominal level

Impedance

Max level

• Master outputs

Nominal level

Impedance

Max. level

Min. load impedance

Frequency response

THD

SNR

Stereo graphic equalizer

• Aux output: Nom. level / Max. level

• L/R Insert outputs: Nom. level / Max. level

• Tape in: Nominal level

• Tape out: Nominal level

• Headphones: Load impedance

• Dimensions:

• Weights:

6

- 60dB / 2,2 kΩ

- 30dB / 10 kΩ

48 V

30dB

3

- 60dB / 2,2 kΩ

- 42dB / 10KΩ

34dB

H.F : ±15dB @ 15kHz (shelving)

M.F : ±15dB @ 600Hz (peaking)

L.F : ±15dB @ 50Hz (shelving)

-128dB

+ 16dB, 6dB before clipping

60mm / > 80dB

• Dual Multieffect DSP (2 x 140 stereo effects) by Montarbo

24 bit Delta/Sigma conversion

56 bit

40Hz + 15kHz

< 0,1%

> 98dB

-10dB

600 Ω

+ 20dB

-10dB

10kΩ

+ 20dB

L/R, Control room

0dB

100 Ω

+ 22dB

600 Ω

25Hz + 20kHz ±2dB

< 0,03%

80dB

80-200-500 Hz 1,6-4-10kHz ±12dB

0dB / + 20dB

0dB / +22dB

- 20dB

- 10dB

200 + 600Ω

XD 69: 49,5 (W) x 10 (H) x 41 (D) cm

AD 69: 49,5 (W) x 16 (H) x 41 (D) cm

XD 69: 6,5 kg

AD 69: 14,9 kg

AD69 AMPLIFIER SECTION

Amplifiers

Total output power (Watt continuous)

Total output power (Watt peak)

Frequency response

THD

Protections

2, Mosfet (AB class)

250 + 250 W / 4Ω

400 + 400 W / 4Ω

30Hz + 25kHz ± 1dB

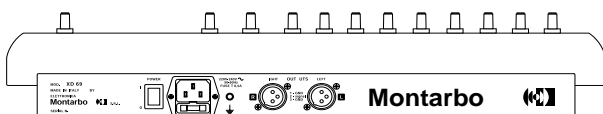
< 0,1% / 250 W / 4Ω

speaker protection fuses, electronic,

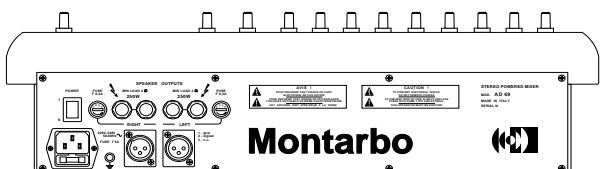
delayed power-up sequence,

automatic trouble-shooting, forced

cooling.



XD69 rear view



AD69 rear view

