

328 XD

Digital Mixing Console



Instant Access

The key to the 328XD's 'analogue' feel is its unique E-Strip. This row of 16 rotary encoders can operate as a horizontal channel strip just like an analogue console, displaying EQ, pan and aux levels at a glance. One button push makes it a single function row of pan, auxiliary or level controls for inputs 1-16 or 17-32, or another button push will put the dynamics processor

controls onto the E-Strip. A 15 segment LED ring around every encoder on the E-Strip provides clear visual indication of its position at all times, so you can work quickly and intuitively without the need to page through LCD screens for reference. Production deadlines can be easily met when you use a console with transparent operation.



The E-Strip Makes It Easy

Input Channels

Each of the 328XD's 16 analogue input channels have:

- Balanced XLR mic inputs
- Balanced 1/4" jack line inputs
- TRS insert points
- UltraMic™ mic preamps
- High pass filter
- 10 segment peak reading meters
- 3 band parametric EQ
- 4 external (pre/post fade) auxes
- 2 internal (pre/post fade) Lexicon FX sends
- Pan control
- Direct outputs (pre/post fade)
- Mute - channel input, tape return
- Solo - PFL, AFL or SIP solo for the channel input, tape return and stereos/FX
- 100mm motorised fader

Settings can be easily copied and pasted between channels.

Moving Fader Automation

Most parameters of the 328XD can be automated using MIDI continuous controller messages. The merging of sequenced audio and automation data means you don't have to look at two different systems to complete a mix. In addition precision alignment of automation to audio is made easy. 100mm moving faders are used for all input channels, groups, aux, solo and mix levels.



328XD

MIDI Controller Mode

All 16 faders, 16 encoders and 32 switches can be programmed to act as independent MIDI controllers.

Group / Host Section

Comprehensive connectivity includes:

- Control room outputs
- 2 x 2-track returns
- 2 pairs of analogue mix outputs
- Phantom power
- 4 x auxiliary outputs
- 2 x stereo inputs
- Headphones

An illuminated LCD assists offline editing and desk configuration, and also provides access to the 328XD's snapshot and effects sections. 5 modes can be selected:

Value: Displays parameter values for the E-Strip encoder being adjusted

Snapshot: Selects any of the 100 snapshots for recall or editing

Dynamics: Displays dynamic parameter values as they are adjusted

Effects: Displays effects presets and parameters

Menu: Assists global set up of functions including wordclock source, sampling rates, etc.



The 328XD's Snapshot Control Panel is used to store and select up to 100 snapshots, in which every digital parameter is instantly recallable. The Select Panel also provides swift and intuitive routing and assignment for the selected channel.

Snapshots can be recalled manually, against timecode or dynamically from your sequencer software. The 328XD reads SMPTE in all frame rates and also writes MTC. A transport bar and large timecode display are provided to control a variety of multitrack recording devices, with 2 store and locate points.





Total control of your music production

328XD

The affordable digital console that
gives you more

- Up to 42 inputs at Mixdown
- 8 busses
- 16 Mic/Line and 5 stereo inputs
- 16 digital tape returns in ADAT™ Optical and TDIF™ formats
- Integrated meterbank
- 2 high resolution Lexicon effects units
- Dynamics processing on every channel
- 3 band parametric EQ
- 6 auxes per channel
- 100mm moving faders
- Snapshot and comprehensive Dynamic automation
- Undo/Redo, Copy and Paste functions
- Solo-in-place, AFL and PFL monitoring
- MIDI timecode input and output
- Machine control for all sequencers and many DTRs/HDRs
- SMPTE input
- 2 console linking - automatically configured
- Total status recall on power up
- Flexibility to route tape sends pre or post fader

E-as-y To Operate

The 328XD was designed to operate and be as familiar as an analogue 8-bus console, so you'll be working and mixing straight out of the box. No extensive manual reading is required. All the functions are clearly defined and right where you need them, without the need to scroll through endless, confusing LCD screens. Just one button press gives you instant access to any feature required on a channel, group or host, while the E-Strip provides clarity and individual control. This unique E-Strip can be switched between a horizontal input channel, a dynamics processor or the level controls for the tape returns.



Comprehensive Digital Interfacing

Many digital consoles require you to buy digital I/Os as expensive extras. Not the 328XD which includes as standard multitrack interfaces for ADAT™ and TDIF™, stereo digital S/PDIF and AES/EBU I/Os, plus the ability to sync to a wide variety of clock sources.

Dynamics And Effects



Precision onboard dynamics processing provides a Gate and Compressor/Limiter on all inputs, groups and the main mix. And, of course, the E-Strip makes set up easy.

Two separate onboard Lexicon effects units deliver world-class reverbs, choruses, delays and flangers – all easily editable.



As easy to use as an analogue console, the Soundcraft 328XD combines sophisticated moving fader automation with legendary Soundcraft sonic performance and onboard interfacing to virtually all digital formats.



Exceptional Sound Quality

All too often, the move to a digital console can mean compromising the sound. Not so with the the 328XD which builds on Soundcraft's 28 years of experience and reputation for legendary performance.

- UltraMic+™ preamps on all mic inputs
- 24-bit ADCs and DACs (128 x oversampling)
- 56-bit internal processing
- 3-band parametric EQ on all channels. Warm, musical, British!
- Advanced premium quality onboard dynamics, available to every input channel, group and mix outputs

Designed For The Way You Work

Not just an amazing console in its own right, the 328XD is designed to integrate completely with desktop packages. Using the 328XD as a hardware controller and combining its mixing engine with that of a desktop sequencer produces one huge, awesome production centre. Indeed, with its 56-bit internal processing, it makes sense to run desktop audio channels through the 328XD at mixdown.

- Advanced control surface for audio software packages
- Use optional AES/EBU interfaces to seamlessly integrate audio from the 328XD within a DAW environment
- Upload entire MIDI configurations to the 328XD from your desktop sequencer via SysEx
- MIDI configurations for the most popular desktop software available for download from the Soundcraft website
- Vice versa, the 328XD can be controlled via MIDI from desktop software



328XD Control For These Sequencers And Synths

Sequencers Digidesign Pro Tools, TDM Plug-Ins · Steinberg Cubase VST, Nuendo · Emagic Logic Audio · Cakewalk Sonar · Mark of the Unicorn Digital Performer · Soundscape Console Manager
Software Synths Steinberg Model E, LM 4, HALion · Emagic ES1, EXS24, EXSP24, EVP73, EVP88 · Waldorf PPG Wave, Attack, D-Pole · Creamware Scope, Pulsar, Luna, Elektra · Native Instruments Reaktor, FM7, Absynth, Dynamo, Battery, Pro-52, B4 Organ · Kobo Studio9000 · TC Works Mercury-1
Hardware Synths All units which respond to MIDI controller data
FX/Dynamics Processors All units which respond to MIDI controller data



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Flexibility Through connectivity



Rear Panel

- Power switch
- Mains fuse
- IEC mains input
- SMPTE timecode input - 1/4" jack
- RS422 port - used for software upgrades to the console and Sony 9-pin control
- MIDI In/Out/Thru - allows bidirectional sync, total dynamic automation and MIDI dump information to be transmitted and received
- Wordclock I/O - lock the 328XD to your preferred clock source, or use it as the host clock
- S/PDIF I/O - a flexible, assignable, stereo, digital interface
- AES/EBU I/O - professional format interface with identical routing options to the S/PDIF I/O
- Aux optical out - can be configured in one of three modes to provide:
 - 8 group outputs;
 - Mix L, Mix R, Aux send 1,2,3,4, FX sends 1+2;
 - Optical S/PDIF output
- 328XD link - allows cascading of two 328XDs. Group/Aux, mix and solo bussing is summed while internal effects remain separate
- ADAT™ Optical I/O - two interfaces supplying 16 digital sends and returns
- TDIF™ I/O - two connectors supply 16 digital send and return channels to any compatible device

The Power To Grow

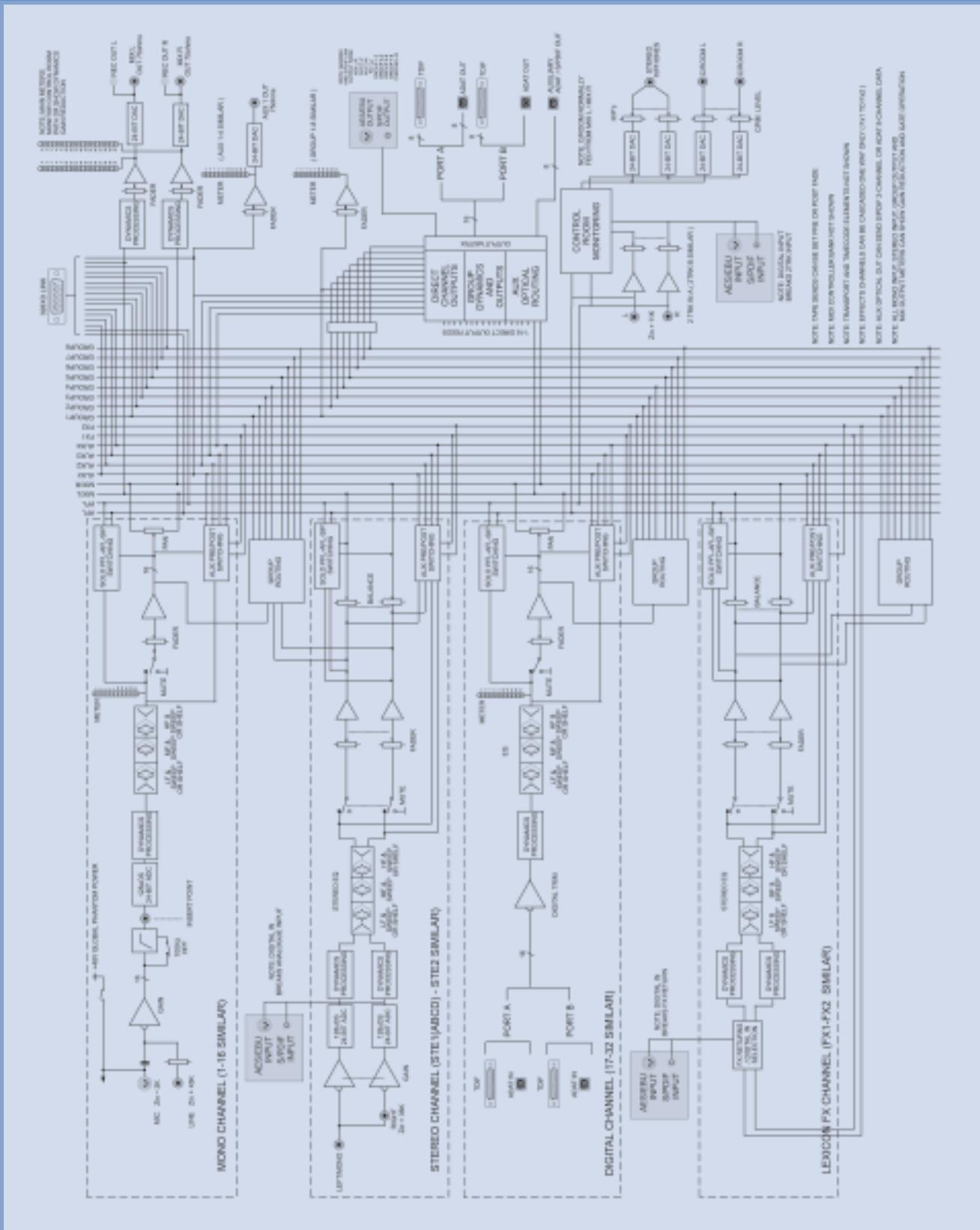
A host of modular peripherals give the 328XD the power to operate in any conceivable audio environment. Optional accessories include:

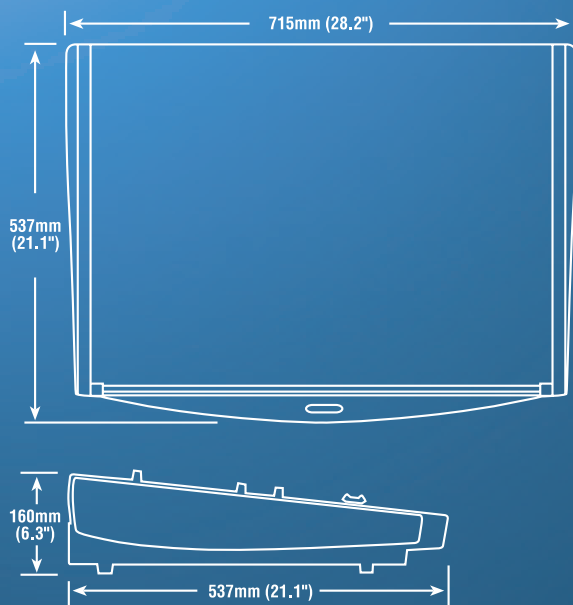
- Cascade cable - double your creative power with two 328XDs! Up to 84 inputs at mixdown and 32-track digital recording capability
- AES/EBU interface - keep your audio completely in the digital domain. A TDIF™ to 4 stereo AES/EBU I/O on XLR provides 8 discrete sends and returns
- Mic/Line interface - one unit provides 8 XLR mic inputs, 8 balanced line inputs and 8 balanced direct outputs which can be set up as group outputs. Use two to transform your console into a 32-mic input beast



System Flow diagram

328XD





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This equipment complies with the EMC Directive 89/336/EEC

Part No. A4; ZL0593
US; ZL0594



H A Harman International Company

328XD Typical Specifications

FREQUENCY RESPONSE

@ +4dBu into 600Ω (20Hz to 20kHz - Rel 1kHz) +0/-0.5dB

DYNAMIC RANGE

Digital Input to Mix Output 115dB

Mic Input to Mix Output 108dB

Stereo Input to Mix Output 108dB

TOTAL HARMONIC DISTORTION

Mic In to Mix Out, 1kHz @ 30dB gain, +14dBu output <0.005%

HUM AND NOISE

Mic Equivalent Input Noise -127dBu (150Ω source)

RESIDUAL OUTPUT NOISE (measured RMS over 20Hz-22kHz bandwidth)

Mix Output with Mix Fader down -90dBu

Mix Output with Mix Fader @ Unity and all Input Channel Faders down -90dBu

Mix Output with Mix Fader @ Unity and 32 Input Channel routed with faders @ Unity, Pans centred -78dBu

COMMON MODE REJECTION RATIO

Typical with max gain @ 1kHz >80dB

Typical with any gain @ 50Hz >70dB

CROSSTALK

Between Adjacent Input Channels >95dB

Fader Attenuation >95dB

Channel Mute Attenuation >95dB

Pan Isolation >88dB

SAMPLING FREQUENCY

Internal 44.1kHz/48kHz

External 40kHz-50kHz

ANALOGUE TO DIGITAL CONVERSION

Mic/Line Inputs 24-bit, 128 x oversampling

Stereo Inputs 24-bit, 128 x oversampling

2-track Inputs 24-bit, 128 x oversampling

DIGITAL TO ANALOGUE CONVERSION

Mix Outputs 24-bit, 128 x oversampling

Control Room Outputs 24-bit, 128 x oversampling

Aux Outputs 24-bit, 128 x oversampling

INTERNAL PROCESSING 24-bit, 56-bit bussing

SIGNAL LATENCY

Channel Input to Mix Output @ 44.1kHz <2.5ms

Channel Input to Mix Output @ 48kHz <2.5ms

FADERS

Type 100mm motorised and stabilised

Resolution 128 steps over 100mm range

DIGITAL OUTPUT DITHER wordlength 16, 20, 24-bit

POWER CONSUMPTION 150W

WEIGHT 14.4kg / 31.7lb unpacked

DIMENSIONS 160H x 715W x 537D mm

6.3H x 28.2W x 21.1D inches



Note: These figures are typical of performance in a normal electromagnetic environment. Performance may be degraded in severe conditions.