M32C

Digital Rack Mixer for Installed and Live Sound Applications with 40 Input Channels and 25 Mix Buses

- 40-input channel, 25-bus, 1U rackmountable digital mixing core for live and installed sound application
- 25 time-aligned and phase-coherent mix buses
- AES50 networking allows up to 96 inputs and 96 outputs
- Open architecture allows for future 96 kHz operation
- High-performance aluminium and high-impact steel structure
- 40 bit floating point digital signal processing
- 8 DCA and 6 mute groups
- 8 digital signal processing effects engines
- 32 x 32 channel USB 2.0 audio interface
- Built-in expansion port for audio interface cards or digital networking bridges
- MIDI In/Out for remote scene recall or controlling other MIDI equipment
- Optional wireless remote control with MIDAS Apps for iPhone* and iPad*
- Auto-ranging universal switch-mode power supply
- 10-Year Warranty Program*
- Designed and engineered in England



The 40-input, 25-bus M32C takes the brain of the flagship M32 Digital Mixing Console and packs it all into a high-performance aluminium and steel 1U form factor. Combine the M32C with our DL16 or DL32 Stage Boxes to effortlessly run sound with high I/O counts in multiple remote locations. Dual AES50 networking CAT5 connectors allow for up to 96 remote inputs and 48 output channels



to be controlled from and processed by the M32C. All of this can be managed concurrently from various locations and instances via our free remote control software applications, M32-EDIT, M32-MIX, and M32-Q.

Above all, M32C is designed to put the power of digital in your hands, without compromise. MIDAS' singular focus on a matchless value proposition means M32C integrates advanced features such as integrated personal monitor mixing and true high-speed digital audio networking as standard features.



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Built for Tomorrow

The M32C is built for today, and tomorrow – its future-proof 40-bit floating-point open architecture design, with built-in low-latency audio networking and industry-leading MIDAS I/O boxes ensure outstanding state-of-the-art audio performance.

"Acoustic Integration" - the Live Sound Revolution

Legendary 40-year old British company TURBOSOUND, famous for producing some of the world's best speaker systems, have teamed up with MIDAS to seamlessly integrate mixer and speaker systems. We call it "Acoustic Integration".

The M32C's ULTRANET bus allows streaming up to 16 channels of pristine digital audio to an array of TURBOSOUND iQ speakers – all on a single CAT5 cable, along with control data to set sound presets remotely.

Furthermore, iQ Series loudspeakers feature "True Physical Modelling" of some of the most popular speakers, which can be easily remote controlled via the M32C, allowing the sound engineer to apply different speaker models in real time from the comfort of the mixing desk.

"Acoustic Integration" is the next live sound revolution.





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100-Band RTA for all Channel/Bus EQs

The M32C includes a 100-band Real Time Analyzer (RTA) with full Bar and Spectrograph views on the M32-EDIT control application. This high-resolution RTA displays the audio energy distribution in 100 frequency bands over time - capturing a sonogram window of a full 10 seconds.

Switch between the Large RTA view, displaying any available signal in full screen resolution, or the Combined view with the RTA view shown above each of the channel and bus EQ curves.

See the results of your filtering choices in the audio spectrum directly. Additionally, the RTA can be displayed on top of the 31-band graphic EQs in the FX rack.

Monitoring and controlling frequencies has never been easier!

What are AES50 and SuperMAC?

AES50 simultaneously provides high channel counts, extremely low and deterministic latencies, accurate phase-aligned networked clock distribution, error detection, network redundancy, with simple deployment and ease of use to meet the needs of the live performance industry.

This unique combination also benefits both live and studio recording applications, as well as post-production, broadcasting and audio routing infrastructure. SuperMAC is a proprietary implementation of AES50 owned by KLARK TEKNIK. Originally developed by Sony Pro-Audio Labs in Oxford, UK, it forms the basis of the Audio Engineering Society's AES50 open standard for digital audio networking – High Resolution Multi-channel Audio Interconnection (HRMAI), as published by the Audio Engineering Society, Inc.

- 48 bidirectional audio channels @ 48 kHz over Neutrik etherCON-terminated shielded (STP) CAT5 cable (max. length 100 meters / 328 feet)
- Single cable duplex interconnection for audio and sample clocks
- Ethernet physical layer audio data transmission
- High channel count and ultra-low deterministic latency (2x3 samples = 1/8 ms per node)
- Accurate phase-aligned clock distribution
- Comprehensive error detection and management
- Provision for redundant networking
- Minimal configuration total ease of deployment and use
- Ethernet TCP/IP protocol-compatible auxiliary data channel





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Virtual Effects Racks

M32C includes an extensive array of onboard effects, rendering outboard processing racks a thing of the past. The Virtual FX rack features 8 true stereo, studio-grade effects engines each assignable to any input, group or output mix bus. Choose from high-end FX modules including a range of reverbs, delays, EQs, dynamics and much more.

Each FX algorithm has been completely re-imagined for stunning performance – typically costing several times the price of the M32C.

Custom-designed, and physically modeled after some of the most iconic and sought-after processors, all effects run inside the low-latency environment of the M32C mix engine, ensuring flawless performance, flexible routing and the end of cable faults forever!



The immaculate tube signal path in Teletronix' LA-2A Leveling Amplifier has left its exceptional clarity, its rich and warm compression on countless albums of the past decades.

The ultra-smooth optical attenuator is closely modeled in our LA COMPRESSOR. It provides breezing, natural and effortlessly musical compression. (Inspired by Teletronix LA-2A*)



When Urei released the 1176LN Limiting Amplifier in the late 60's, it broke new ground. Field Effect Transistors employed were just invented and the 1176 was one of the first audio processors to benefit from this new technology.

Our digital re-incarnation, ULTIMO COMPRESSOR, is based on the early Rev. E model and authentically captures the smooth character of the original class-A output stage and its FET's legendary fast Attack. (Inspired by Urei 1176LN*)



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The Fairchild 670 tube compressor not only achieves record bids in high-end vintage gear auctions, it also delivers some of the finest colorations in compressor history. Two small trim VR's preset the control side chain action, a six-step switch determines the timing, and the two large Input and Threshold knobs adjust the levels.

Our FAIR COMPRESSOR model is true to the original signal path, and conveniently provides models for dual, stereo-linked or M/S operation. (Inspired by Fairchild 670*)



The COMBINATOR is an amazing 5-band compressor that emulates famous broadcasting and mastering compressors.

A highly complex processor, the COMBINATOR utilizes automatic parameter control that produces stunning and "inaudible" results. Makeup-gain for each frequency band will automatically be adjusted by the Spectral Balance Control (SBC) function, to maintain a balanced audio spectrum.



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The XTEC EQ1 is undisputedly one of the best passive studio equalizers ever manufactured. Virtually indescribable, recording engineers claim the Pultec EQP-1a to be the "secret sauce" of sound enhancement.

We analyzed this classic to the core and created an exact physical model that reproduces the multi-faceted sound in painstaking detail. Even the transformers and tube output stage have been faithfully modeled! (Inspired by Pultec EQP-1a*)



Pultec simply wrote the book on passive equalization. By digitally "rebuilding" every aspect of the original Pultec classic, we captured the very essence in our parametric equalizer XTEC EQ5. Our digital re-incarnation is based on the original model and authentically emulates the smooth character of the its rather unique components. (Inspired by Pultec MEQ5*)



The new SUB OCTAVER provides two channels of earth-shattering sub-harmonics generation, one or even two octaves below the input signal. While originally designed for bass players, the effect can be adjusted for Hi, Mid and Low frequency tracking to apply to a wide range of applications. This is your secret weapon for beatboxing...



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The EDISON EX1 is the re-incarnation of our own analog classics. This remarkably-effective tool allows manipulation of the stereo field. Selectable M/S input/output modes allow the processing or creation of M/S recorded sound sources.



The SOUND MAXIMIZER restores natural brilliance and clarity to any audio signal by adjusting the phase and amplitude integrity to reveal more of the natural texture of the sound, which is often hidden when using some effects and equalizers. (Inspired by Sonic Maximizer 482i*)



The DIMENSIONAL CHORUS is the perfect emulation of what has been referred to as "the best analog Chorus unit ever created". Four simple Mode preset buttons activate amazing effects, best described as "space" and "dimension". Absolutely faithful to the original, multiple preset buttons can be pressed simultaneously. (Inspired by Roland Dimension D Chorus*)

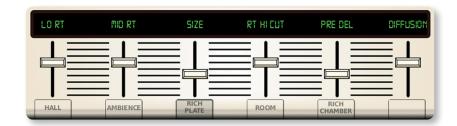


MODULATION DELAY combines three of the most used time modulation effects into one easy-to-operate unit. Enjoy true-stereo delay with a lush and spacious chorus, topped off with three reverb models to choose from.



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The Lexicon 480L* has been recognized as the gold standard of digital reverb. We have included three of the finest reverb models – Rich Plate, Room and Rich Chamber. The M32's models precisely capture all nuances based on our "True Physical Modeling" and our algorithms even incorporate the unit's AD/DA gain-stepping converters – nailing the entire analog and digital circuit paths right down to the last detail. (Inspired by Lexicon 480L*)



EXCITERS increase presence and intelligibility in live sound applications and are indispensable for adding clarity, air and harmonic overtones in the recording studio. ENHANCERS let you emphasize the Bass, Midrange and Hi output at selectable frequencies.

You can generate maximum punch, clarity and detail, without turning up the overall volume. (Inspired by Aphex Aural Exciter* and SPL Vitalizer*)



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Our TruEQ STEREO GEQ delivers musical and responsive signal processing-perfect for general room equalization, indispensable for monitoring. M32 provides up to 16 mono graphic EQs, in addition to the multi-band parametric EQs in all channels and buses, to cope with the most demanding stage monitoring situation.

Plus, the M32's motorized faders can be switched to control the filter bands of the graphic EQ, with the channel LCDs showing the corresponding filter frequencies-and you can even put this on a user defined hot-key for immediate access. (Modeled after KLARK TEKNIK DN360)



VINTAGE ROOM stands out head and shoulders over other competing reverberation strategies in the way it models sound propagation in air and room resonances. Invented in the early '80s, the role model delivered authentic room character from an algorithmic reverb long before convolution-based processing was available.

It is an ideal reverb for mixes or sub-groups, as it adds space to complex signals, which is highly desirable in classical music and broadcasting environments. (Inspired by Quantec QRS*)



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PLATE REVERB emulates the characteristics of a plate reverb chamber with control over the damping pad, modulation depth and speed, and crossover. PLATE REVERB will give your tracks the sound heard on countless hit records since the late 1950's. (Inspired by Lexicon PCM70*)



The 3-TAP DELAY in the M32 records the input signal and then echoes it back after a user-definable period of time and number of repeats. What makes the stereo and triple delay useful and outstanding is the linked tap-timing and musical choice of echo patterns.

Use the 3-TAP DELAY to fatten up vocals and instruments, or to add an enhanced spatial element to any performance.



The HALL REVERB effect provides a broad spectrum of reverberation possibilities, from small room to large, or even cavernous proportions. When softly mixed with the original signal, Hall Reverb can be used to create a warm, more natural sound. (Inspired by Lexicon 480L*)



M32C

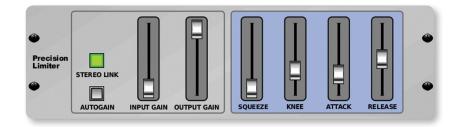
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This handy dynamic FLANGER & DELAY duo blends the "whoosh" of soaring jet planes with classic Delay, and can be adjusted from mild to wild. This combination effect only takes up one FX slot. (Inspired by Lexicon PCM70*)



WAVE DESIGNER is a powerful tool for adjusting signal transients and dynamics such as attack and sustain. Use it to make a snare drum really "crack" in the mix or level out volume inconsistencies of slap bass tracks. (Inspired by SPL Transient Designer*)



The STEREO PRECISION LIMITER is perfect for setting a precise volume limits, ensuring distortion-free and optimal signal integrity. Use the Stereo Precision Limiter to boost quiet signals or reduce the level of "hot" signals to prevent clipping. (Inspired by Sony Oxford Dynamics*)



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The DE-ESSER is a "must-have" tool for reducing the amount of sibilance in vocal mics while adeptly preserving the natural voice timbre of a performance. Use it to enhance the smoothness of the upper mid to high frequencies in vocals as well as drum overheads and strings, etc. (Inspired by SPL 1239*)



Based on the legendary EMT250, the VINTAGE REVERB delivers a shimmering, bright reverb that won't overpower your live or recorded tracks. Use the VINTAGE REVERB to sweeten vocals and snare drums without sacrificing clarity. (Inspired by EMT250 Plate Reverb*)



Occupying only one FX slot, the CHORUS & CHAMBER effect combines the shimmer and doubling characteristics of a studio-grade Chorus with the sweet sound of a traditional Chamber reverb. (Inspired by Lexicon PCM70*)



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DCA Groups

DCA (Digitally Controlled Amplifier) and Mute groups allow control over several signals at once without actually mixing them into a subgroup bus. M32C's 8 DCA groups, and 6 Mute groups, let you control multiple signals via a single control, such as the entire drum mix, the horn section, or the backup vocalists, etc.

DCA control affects the FOH mix, while allowing the individual buses to remain unchanged. The result is a customizable workflow that provides maximum flexibility, but still allows individual buses and subgroups to serve the purpose they were intended for, such as zone sends, broadcast feeds, etc.

You Are Connected

Each M32C comes loaded with all of the digital connectivity and functionality you need, right out of the box. Onboard USB 2.0 connectivity delivers a full 32 x 32 channels of audio and MIDI to your DAW. Integrated multi-channel digital audio interfaces connect to remote stage boxes and the P16 Personal Monitor System. Native Ethernet control enables remote operation by computer, iPad or iPhone over a wired or wireless network, across the room – or across the planet!

Dual AES50 network ports featuring KLARK TEKNIK SuperMAC technology support up to 96 inputs and 96 outputs over shielded (STP) CAT5 cable, allowing remote stage boxes and sharing signals among several connected M32 series mixers and other MIDAS, KLARK TEKNIK and AES50-equipped products. On-board ULTRANET provides a 16-channel digital mix direct to P16 Personal Monitor Mixers, without added hardware, cost or latency.

Ethernet, USB and MIDI are all standard features on M32C.

An additional expansion slot is also included, so that the M32C can connect to current and future digital audio networks and link protocols via a wide range of expansion cards including USB, ADAT*, MADI and Audinate Dante*.





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POWERPLAY P16

Personal Monitoring System

Easy as a handshake. Plug the P16-M personal monitor mixer into M32C's ULTRANET port with a shielded (STP) CAT5 cable, and let the performer dial in the ideal 16-channel personal monitor mix. You can daisy-chain additional P16-M units, or use several P16-D ULTRANET distributors to easily set up a plug and play monitor system that can accommodate 64 individual P16-M units – and provide them with operating power over CAT5.

DL16

Digital Stage Box

The MIDAS DL16 digital stage box closes the gap between stage and FOH (Front of House) by placing 16 fully-programmable, remotely controllable high-end MIDAS mic preamps and 8 analogue, balanced XLR returns at the stage end. Connecting over a single shielded (STP) CAT5 cable, up to three DL16 or MIDAS DL150 stage boxes can be daisy-chained to deliver 48 channels in and 24 out to the stage. Dual AES50 ports on the M32R allow up to 96 input channels to be connected and routed in the same system.

- AES50 network ports featuring KLARK TEKNIK SuperMAC technology for ultra-low latency (in-ear compatible)
- Up to 100 m networking capability via CAT5 cable (not included)
- Dual AES50 ports, each for cascading up to three DL16 units no merger or router required
- Precise LED metering plus 7-segment displays for signal control on stage
- Phones output assignable to any of the inputs/outputs for on-stage monitoring
- Connectivity for P16-M Personal Monitoring System for in-ear applications (not included)
- Dual ADAT outputs for use in splitter mode and stand-alone digital multi-core applications
- MIDI in/out for bidirectional communication between FOH console and on-stage MIDI devices





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Real-Time Recording

At the Heart of it All

The M32C forms the nucleus of an ultra-flexible studio control room setup when paired with DL16 I/O and POWERPLAY P16 Personal Monitoring Systems in each tracking room. The included 32 x 32 KLARK TEKNIK DN32-USB audio interface, 8 stereo effects engines, zero-latency monitoring (independent from DAW) and 100% total recall deliver the tools to handle any project you dare to tackle.

Expansion & Networking

Optional Expansion Cards

The M32C's expansion slot provides flexible and expandable connectivity for many different applications. A wide array of KLARK TEKNIK expansion cards can easily be used in place of the pre-installed DN32-USB card to release the power of M32C into existing MADI*, Dante* and ADAT networks. Fully compatible with these widely available audio protocols, the M32C delivers a seamless integration in digital live sound, recording and broadcast environments.

DN32-USB

Hi-Speed USB 2.0 Audio Interface for Professional Recordings

The DN32-USB Expansion Card ensures a stable and fast solution for professional live and studio recordings with 32 x 32 channels of audio and 16 channels of MIDI I/O. It provides 400 Mbit/second throughput to transfer your high-track count session to popular Software DAWs on Mac and PC via USB 2.0.





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DN32-ADAT

High-Performance 32-Channel ADAT Expansion Card for M32C

The DN32-ADAT Expansion Card allows you to digitally integrate your M32C with any equipment featuring ADAT I/O. This includes stand-alone recorders, digital audio workstations, and other digital mixers and signal processing gear. The DN32-ADAT card provides 32-channels of ADAT inputs and outputs on its 8 fiber-optic Toslink* connectors. The card features 24-bit signal transmission and operates at both 44.1 and 48 kHz sample rates, maintaining your signal integrity. The DN32-ADAT card also has a BNC word-clock in/out capability allowing it to sync with an external clock, or provide the clock signal for other devices. External clock synchronization is possible through the BNC connection, as well as any of the 4 Toslink inputs.

DN32-MADI

High-Performance 32-Channel MADI Expansion Card for M32C

The DN32-MADI Expansion Card brings even more I/O options to the M32C by instantly enabling it for MADI networking. The MADI, or AES10, protocol has become the industry standard for multichannel audio distribution in both installations and broadcast applications. DN32-MADI provides optical duplex SC-plugs (IEC874-19) to connect with other MADI devices via multimode fiber-optic cable, allowing to bridge distances of over 500 metres with galvanic isolation. Dual BNC terminals are also provided for transmission via standard 75-Ohm coaxial cable of up to 100 m in length. The BNC and fibre-optic connectivity can also be used simultaneously, providing reliable redundancy in mission-critical applications. DN32-MADI card is the perfect solution for integrating the M32C into current installations using the MADI protocol.





DN32-DANTE

High-Performance 32-Channel Audinate Dante Expansion Card for M32C

By installing the DN32-DANTE card in place of the DN32-USB card, your M32C will interface with Dante networks using virtually any 100Mbit/s or Gigabit Network infrastructure with DSCP-based QoS – providing dependable multi-channel audio that may coexist with other IP-based data traffic. The DN32-DANTE card utilizes 24-bit signal transmission with sample-accurate synchronization and low latency, ensuring the highest audio integrity. And a secondary input allows you to set up a seamless, redundant network. Full remote control of the M32C is possible using the integrated Ethernet switch. When the DN32-DANTE card is connected to a computer, Audinate's Dante Controller application gives you full control over configuration and signal routing among your Dante-enabled devices.



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Remote Control

M32-EDIT (PC, Mac, Linux)

Just as in life, you can never have too many connections – and this applies to controlling the console itself. Simply connect the M32C to a laptop or desktop computer via LAN, wireless network or Ethernet cable, and take total remote command of the M32C. Move a fader on the PC, it moves a virtual fader on the M32C; press a button on the computer, the virtual button toggles on the M32C. The M32-EDIT app is designed for maximum flexibility, allowing you to use the physical group faders and buttons of an M32 or M32R console (DAW Remote function engaged), or any MCU (Mackie Control Universal) compatible control surface to remotely control the M32C. This feature provides an extremely-powerful and useful solution for side of stage monitor control, individual control of multiple installed M32Cs, as well as multiple remote control stations of the same M32C. The M32-EDIT also lets you create scenes on your PC beforehand to minimise the time required for sound checks.



With the M32-EDIT software for PC, Mac and Linux, your computer becomes your virtual M32C.



M32-MIX (iPad)

Front of House is wherever you and your iPad are – thanks to the new M32 MIX App for iPad. Just plug in a wireless router via Ethernet cable to the M32C, and then wirelessly connect up to 10 iPad devices, which is especially handy for custom monitor mixes.

The M32-MIX App lets you control all 32 mic inputs, 8 Aux inputs and 16 buses – plus the FX stereo returns and the Matrix, Main, and DCA levels. Select a fader bank on the iPad, slide the virtual faders and M32C's motorised faders instantly mirror your action. Additionally, thanks to the Sends on Faders functionality, your iPad now controls 16 independent monitor mixes. The M32-MIX App gives you the flexibility and mobility to make running sound a breeze!

Download the free M32-MIX App from the Apple App Store.

M32-Q (iPhone, iPod Touch)

M32-Q is the perfect tool for setting up your personal monitoring mix with the MIDAS M32C Digital Mixing Console. Compatible with iPhone models and iPod touch devices, each artist can run their own M32-Q App to adjust and tweak their personal wedge's mix. M32-Q includes an assignable MCA (Mix Control Association) feature that makes monitor mixing simple enough to be adjusted during performance. Assign any input or combination of inputs to one of the 4 MCA controls inside M32-Q and instantly get "more me", "less band", "more click track"... with a single sweep of your finger.

Download the free M32-Q App from the Apple App Store.





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M32-Q (Android)

M32-Q is also available for Android devices, allowing you to set up your personal monitoring mix with the MIDAS M32C Digital Mixing Console. Compatible with Android (2.2 or higher) mobile devices, each artist can run their own M32-Q Android app to adjust and tweak their personal IEM or wedge monitor mix with an interface similar to the iPhone app. The app includes an assignable MCA (Mix Control Association) feature for monitor mixing simple enough to be adjusted during performance. Assign any input or combination of inputs to one of the 4 MCA controls inside M32-Q Android and instantly get "more me," "less band," "more click track..." with a single sweep of your finger.

You Are Covered

We always strive to provide the best possible Customer Experience. Our products are made in our own MUSIC Tribe factory using state-of-the-art automation, enhanced production workflows and quality assurance labs with the most sophisticated test equipment available in the world. As a result, we have one of the lowest product failure rates in the industry, and we confidently back it up with a generous Warranty program.





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