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CDC FOUR
## DIGITAL CONSOLE

CDC FOUR

The CDC Four is an all new development from the team at CADAC, based on a proprietary DSP mix platform. This signals CADAC's continued interest in new market sectors. The desk performs equally well with recording as it does in its primary design sector the live market. This is achieved with an optional Firewire interface which allows recording and playback through the same cable. Input channels can be increased for the live sector with the optional MADI Stagebox giving another 32 inputs from stage. The console features 16 fully motorised channel faders, high-resolution TFT colour display and fully recallable scene memory. Superior sound quality is achieved by using specially developed ultra-low distortion EQ filters, true analogue sounding compressors, 96kHz 24bit Delta Sigma AD/DA converters and fourth generation,32/40-bit floating point SHARC processors. The wide dynamic range, low noise mic preamps feature premium input ICs with outstanding CMRR.
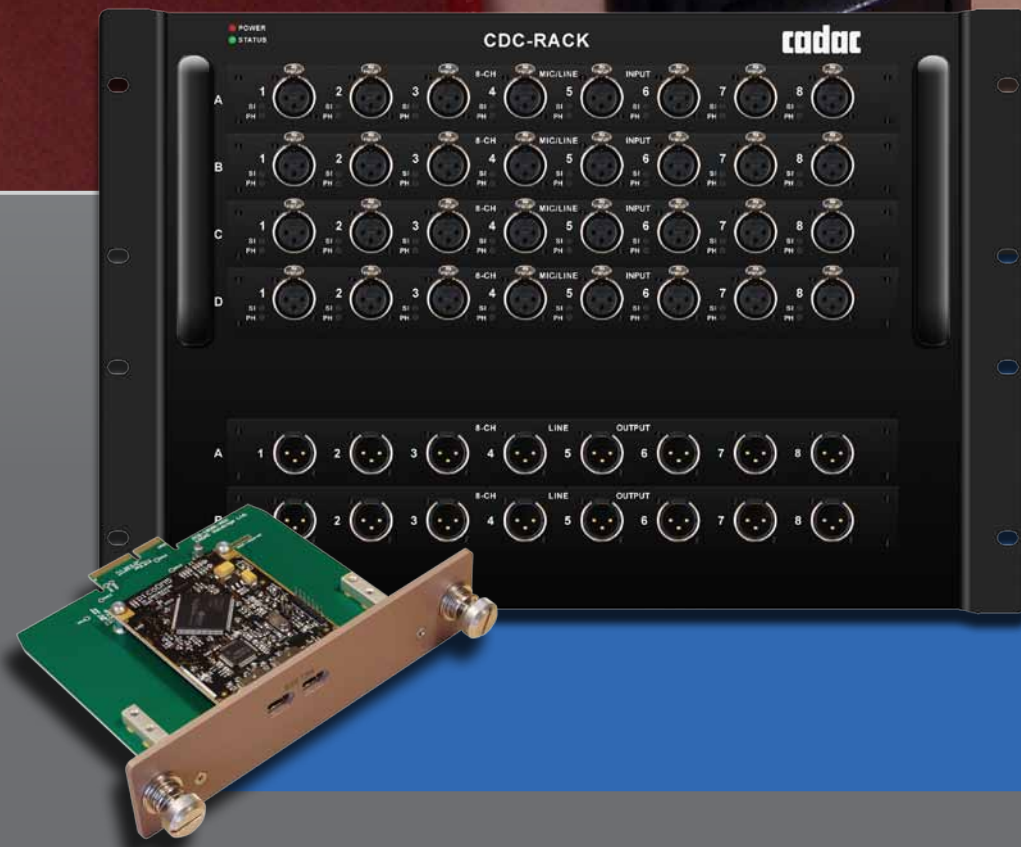
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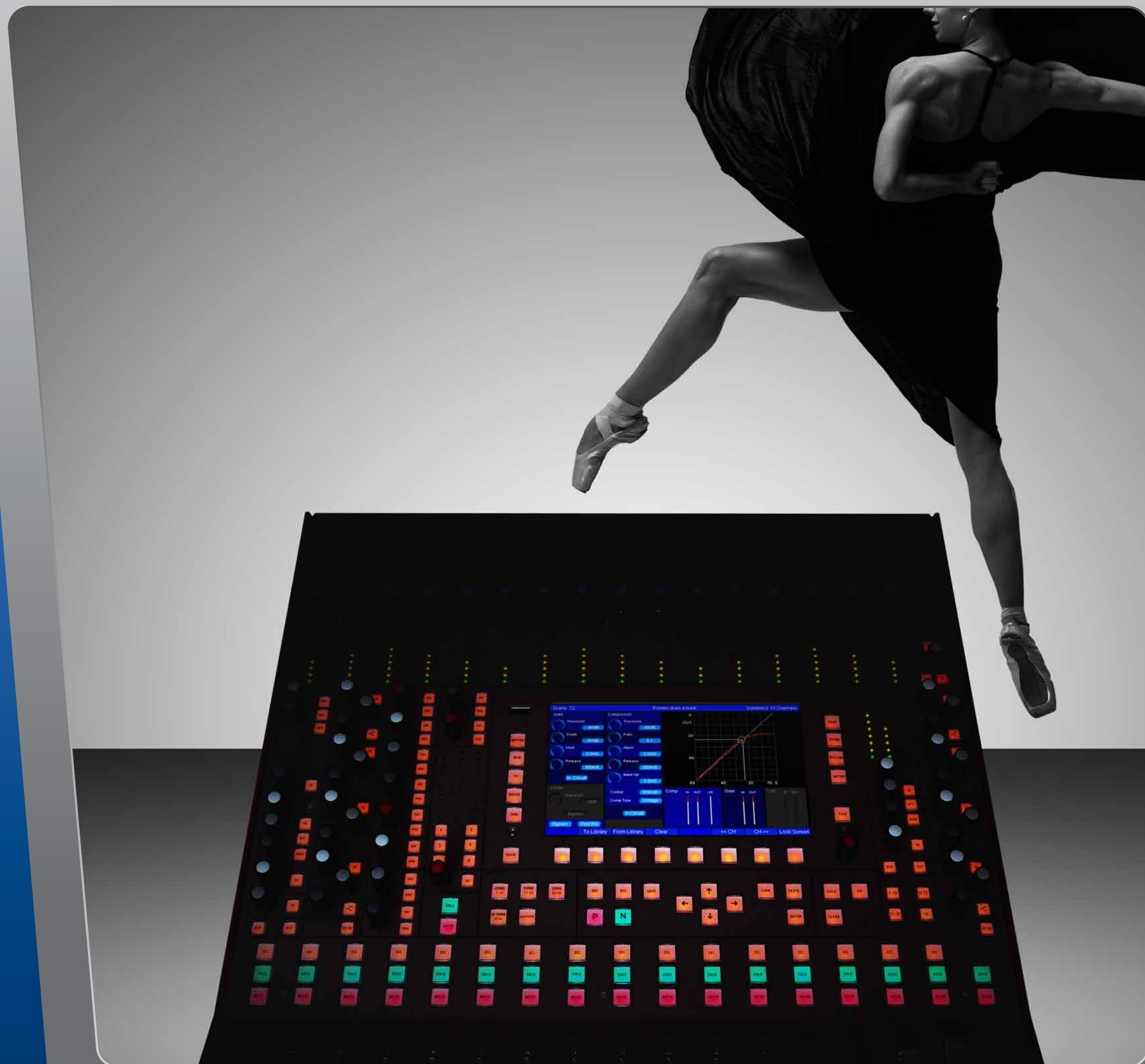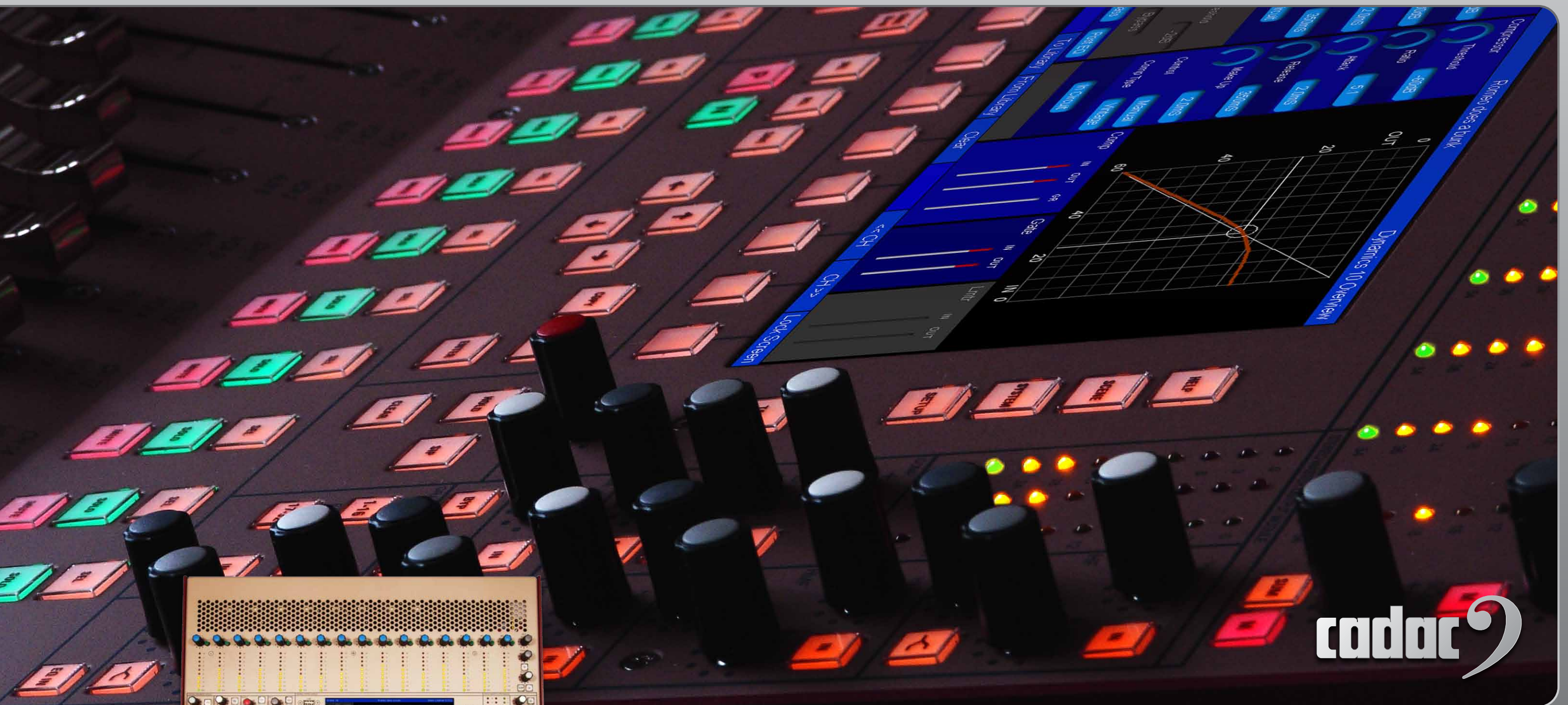
CDC FOUR

The Central Assignment Module (CAM) controls Equalisation, Group Assignment, VCA control, Effects, Auxiliary Sends and Dynamics. Each of these functions has a discrete control with no 'doubling up' or menu scrolling. This enables the desk to be operated as quickly as its analogue counterpart. Another benefit is the Master Section which has its exclusive controls for Output EQ, and Dynamics. The central 7-inch hi-resolution colour TFT display shows detailed views of all the channel parameters along with Scene control, effects modules, MIDI status, editing and routing control. Rotary encoders can be interrogated by pushing the appropriate control and getting the value, mode or function displayed. Complex buss routing, auxiliary pre/post assignment and detailed dynamics are shown in the display. This leaves more front panel space for quick access to real time functions.

Labels on the mixing desk: RIGHT, LEFT, MONO, LITTLITES, TALKBACK, GP1, GP2, GP3, GP4, AUX 1, AUX 2, AUX 3, AUX 4, AUX 5, AUX 6, AUX 7, AUX 8, MON M, MON L, MON R, TAPE R OUT, TAPE L OUT, CH 8, CH 10, CH 11, CH 12, CH 13, CH 14, CH 15, CH 16, INS, DO, ST L6, ST R6, ST L7, ST R7, ST L8, ST R8, ST L4, ST R4, IEEE 1394, MIDI THRU, IN, OUT, INS

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CDC-RACK cadac
POWER STATUS
A 1 2 3 4 5 6 7 8   8-CH MIC/LINE INPUT
B 1 2 3 4 5 6 7 8   8-CH MIC/LINE INPUT
C 1 2 3 4 5 6 7 8   8-CH MIC/LINE INPUT
D 1 2 3 4 5 6 7 8   8-CH MIC/LINE INPUT
A 1 2 3 4 5 6 7 8   8-CH LINE OUTPUT
B 1 2 3 4 5 6 7 8   8-CH LINE OUTPUT

CDC FOUR

The CDC Four has a plug in port which allows either the implementation of a Firewire recording/playback board or a MADI board for live stage to desk expansion.

The Firewire board will allow you to stream your input channels to your DAW (computer requires a working Firewire port) and record multiple channels of your choice. Recorded channels can then be played back through the desk into individual channels for adjustment or for system setting when the live artiste is not available.

The optional MADI interface and CDC-RACK is an ergonomically designed stage box solution to extend the input and output capability of the CDC FOUR. Using a low latency MADI interface to connect to the CDC FOUR, the stage box can be located virtually anywhere to give either local expansion or be located on the stage to act as a fully featured stage box.

Featuring up to 32 MIC/LINE input channels with remote controllable gain, signal present indication and Phantom Power. There are also up to 16 LINE outputs, making the unit perfect for many different applications.

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FRONT PANEL

The CDC FOUR retains the CADAC classic pre-amp sound and quality. 16 true analogue pre-amps on the main console with real gain controls.
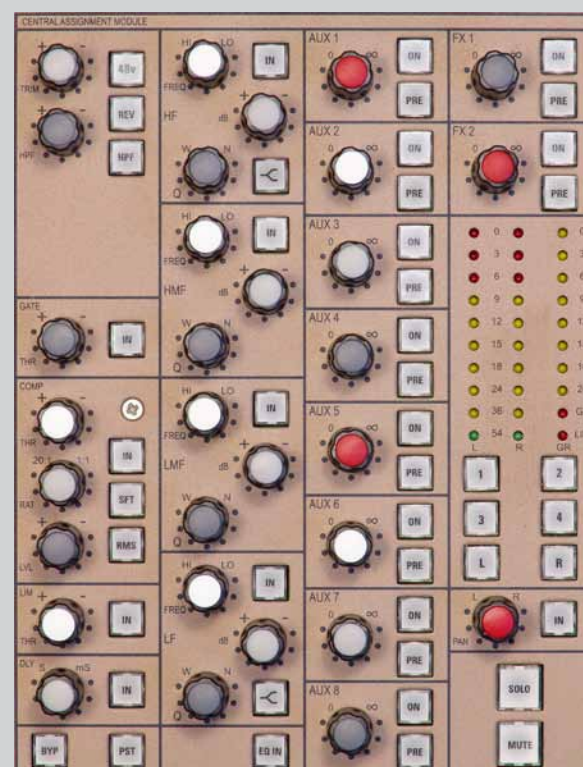• Full input metering
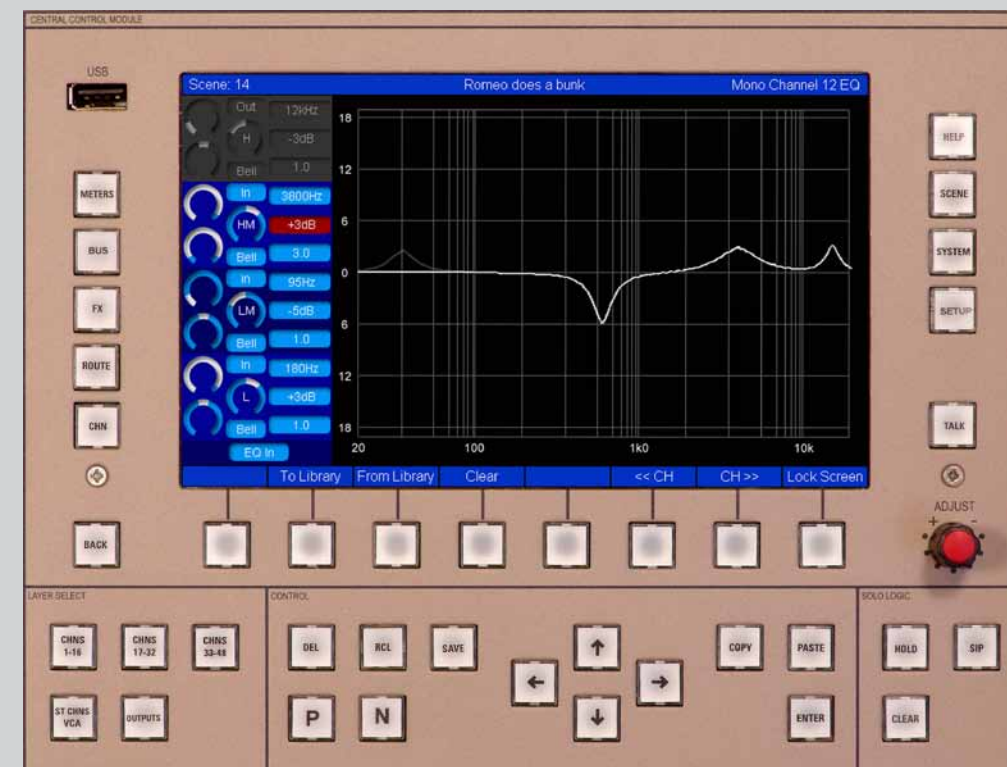• Eight dedicated AUX busses and two FX busses
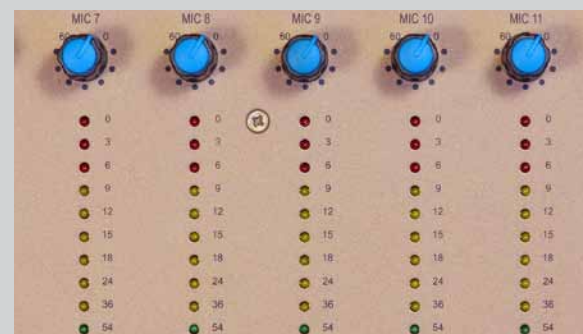
INPUT SECTION

All facilities have their own dedicated control including
• Digital gain trim
• Variable hi-pass filter
• Full compressor control
• Variable gate controls
• Four band fully parametric eq

FADER SECTION

• 16 high quality motorised faders
• Channel select, mute and solo buttons

CENTRAL CONTROL SECTION

• Large 7" Hi Res TFT display
• USB port for memory backup
• Easy to use navigation, menu select and scene memory access
• Fast and informative fader layer selection

MASTER OUTPUT SECTION

All facilities have their own dedicated control including
• Unique dedicated output controls including
• Dedicated 4 band fully parametric equaliser
• Compressor and Limiter

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REAR PANEL

- 16 High quality mic / line inputs
- 8 stereo inputs
- Ultra quiet internal PSU
- Insert and direct outputs
- Multiple output configurations

A WORD FROM DESIGNER...

"

With the CDC FOUR we have tried to bring the ease of use and simplicity of an analogue console by providing a dedicated encoder for every function and combining this the connivence of a fully recallable digital console with motor faders and a high resolution LCD to deliver the best of both worlds.

We have used the same high quality mic amps that were conceived for the Live1 console and used the highest quality DSP algorithms to emulate the classic Cadac EQ sound.

The ADCs and DACs we have implemented for this console are the highest quality available at this price point again to allow us to achieve the best possible sound quality.

"

Nick Fletcher
Senior Engineer Manager

FEATURES

	CDC FOUR	Connector Type
Inputs (total)	25	
Mic inputs with insert	16	3 pin female XLR
Stereo Input channel	8	1/4inch jack socket
talkback mic	1	3 pin female XLR
Busses (total)	27	
Subgroups	4	
Aux	8	
Stereo Effects Bus (internal only)	2	
Aux switchable Pre/Post fader	8	
Master LR	2	
AFL (stereo)	2	
PFL (Mono)	1	
Outputs	43	
Subgroups	4	1/4inch jack socket
Aux outputs	8	1/4inch jack socket
Assignable Balanced Insert Send	8	1/4inch jack socket
Master Stereo output with inserts	2	3 pin male XLR
Master Mono	1	3 pin male XLR
Stereo Monitor out (normalised mono)		1/4inch jack socket
Stereo Monitor out	2	
Monitor Mono out	1	1/4inch jack socket
Direct Output	16	1/4inch jack socket
Stereo Headphones	1	1/4inch jack socket
Digital Interface - Firewire	Yes *	
Inputs to channels	16	
Direct Outputs	16	
Inputs to Stereo channels	16	
Direct Outputs from Stereo Channels	16	
Subgroup output	4	
Aux Outputs	8	
Master Stereo Output	2	
Sample Frequency	96kHz	
Bit depth	24bit	

* Firewire is only available as an optional card fitted to the expansion slot

DIGITAL SPECIFICATION

AD/DA Converters	24 bits
DSP Resolution	40-bit floating point
Sample Frequency	96kHz

SPECIFICATION

Channels	24 (16 mono 8 stereo)
Auxiliaries	mono (Switchable pre post fade in pairs)
Sub groups	4 mono, pannable to Main Stereo bus
Stereo effects returns	2
Input impedance	10k Ohm eletronically balanced
Nominal input level	0dBu
Max. input level	+21dBu (balanced) + 10dBu (unblanced)
Max. output level	+21dBu
Mic amp CMRR	-86dB (100Hz to 1kHz)
Signal to noise	-80dB at unity gain
Equivalent Input Noise (EIN)	< -127 dB 200ohm source impedance
Dynamic range	110dB, 20Hz to 20kHz unweighted
THD	0.02% @ 1 kHz, 10 dB gain
Frequency response	20Hz to 44kHz + 0.5/-1.5dB
Crosstalk	-80 dB to -90 dB at 10 kHz
Phase response	$\leq 5° @ 20$ Hz

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