CinemiX

Cinemix is D&R's answer to the ever increasing demands placed upon the high-tech video, film, and post production studio world of the 90's.

A recording console with superb electronics, *true* dual input path design, complete recall of all digitally controlled routing and switching functions, True Left / Center / Right / Surround panning and two highly automated signal paths per module, Cinemix is about to change the way you view recording consoles - forever.

The D&R design team has broken new ground with Cinemix's digital recall "ARM" system and its associated master controlled and automated status switching. Easy to understand, yet incredibly powerful, ARM revolutionizes the way consoles are designed. Its full six channel *automated* output section and fully integrated automated Joysticks are a pleasure to work with.

Add to this D&R's reputation for hand-crafting consoles of the highest order, you will begin to understand how the power of Cinemix will change the way your productions take place in the future. Whether you're mixing for record or CD production, audio for video post, or six channel surround for film, the D&R Cinemix will fit the most difficult demands placed on any mixing engineer or producer.

THE BEGINNING.

Before we get to the mysterious stuff, before we try out Cinemix's "magic", we must start where all D&R consoles start - at the beginning. At D&R, every console begins with extreme attention to sonic detail and impeccable specs. Cinemix is no stranger to this tradition.

When D&R entered Cinemix's design phase, we took a long hard look at the strengths and weakness' inherent in this type of console. We knew that for a console of this type to become a D&R, it would need to meet if not exceed the high sonic standards we are well known for.

The strength of this design - the recall facility, the highly automated signal paths, and the digital routing schemes - were all subjected to D&R's unique brand of clever engineering. We think you will find the results evident in Cinemix's unique features.

D&R's 25 plus years of design and manufacturing experience. Experience that made all the difference. Experience that, after auditioning Cinemix, will be audibly evident to your ears.

Though Cinemix is highly automated with the latest digital control technology available, the sound of the console remains true to its D&R heritage -Transparent and Silent. An accomplishment that D&R is decidedly proud of.

TRUE DUAL INPUT PATH.

Now let us tell you about Cinemix's unique input modules. Cinemix started its journey with noble aspirations - *the first true dual input module* to hit the audio industry.

Makers of in-line consoles (D&R included) were among the first to lay claim to this territory.

But when it came time to really "double" the amount of usable inputs for a complicated tracking session or mix, one equalizer and a limited number of Aux sends didn't make it. Engineers wanted more. They *needed* more.

The next generation of apparent heirs to the throne arrived with a modified in-line design.

They had separate equalizers and faders on each input path, but once again they had to split a limited number of Aux sends between the console's two input paths.

A few even had automation on both signal paths, but in most cases their EQ was sorely lacking by professional standards and their routing flexibility was not all that it could have been.

Cinemix is much more than an in-line or dual EQ console.

Intended for serious world class music production and audio for post production sessions, you can be sure that a studio equipped with a 32 frame Cinemix has the equivalent of 64 truly usable automated input modules (with nearly every function duplicated on both input paths) and 10 true stereo inputs (for 20 inputs)!

AUTOMATION.

Cinemix has two *highly automated* input signal paths per module which include: TWO VCA or optional motorized faders, TWO automated mutes, and, through the power of Cinemix's ARM, automated access to 12 additional functions per input module. The master section has full automation on all six outputs (Left, Right, Center, Surround left, Surround right, Sub bass) as well as on both Joysticks with a unique "Virtual Vision" matrix display to have full visual control over automated surround panning.

The power of Cinemix's automation comes standard with every console (Moving faders optional). This potion sounds incredibly powerful, yet it doesn't take a rocket scientist to operate. Through the magic of Cinemix, anyone with just a bit of studio engineering experience can be up and running a session in a matter of minutes.

LCRS PANNING.

The Mix path has a true Left - Center - Right pan control and Front - Rear surround panning on every module. Bottom line, no limitations in positioning your sound anywhere in the 360 degree sound field.

All that is left is D&R's optional "PowerDynamics" package which compliments this powerful automation system.

DUAL INPUT STEREO RETURN MODULE.

Cinemix frames have the capacity to accept a maximum of 5 dual return returns to be able to return 10 stereo sources from its 10 Aux send busses. Both upper and lower identical sections have active input gain controls, 4 band EQ, Highpass filtering on the upper section, fully automated ARM routing system and 10 Aux sends in total. Neat features such as stereo meter switching and stereo input flip switches make this module very versatile to work with. Naturally both faders and mutes are automated against SMPTE timecode.

ARM - ADVANCED ROUTING MULTIPLEX.

Much of Cinemix's power lies in its ARM - the unique Advanced Routing Multiplex.

When D&R was seeking an elegant solution to the complex problem of module layout, we developed the concept of ARM. Not wanting a myriad of switches on every input module that complicate physical layout and confuse visual monitoring, ARM allowed the console operator to clearly and quickly see any signal path's routing at the touch of a button.

Intuitive, incredibly powerful, and easy to use, ARM allows the group busses to be

Cinemix

accessed by the Channel (A), Mix (B), and Aux 5/6 paths - either individually or simultaneously in one block of 12 dual routing busses. Channel routing status becomes easy to visualize and quick to change without jumping over the whole console.

The bottom line? This powerful matrix allows access of up to 34 Aux sends during mixing, access to the 24 group busses from both signal paths simultaneously or individually during tracking, (and in advanced applications), allows the engineer access to signal routing possibilities that even D&R haven't envisioned yet.

ARM's applications for post production and music mixing are staggering, but it's exactly what is called for in an area where recording consoles are called upon to "to do it all". Cinemix offers routing possibilities that are unlike anything using current technology.

JUST THE FACTS....PLEASE!!!

Cinemix was designed to be a world class mixing/recording/post production console that is second to none.

Two Cinemix frames are available, the 32 frame accepting up to 32 dual input modules and 5 dual stereo return modules as well as an optional "Film module" for working with up to 24 tracks in mixdown to create "STEMS". This configuration nets 84 total inputs in mix (64 mono inputs and 10 stereo returns).

The 48 frame will accept up to 48 dual input modules and 5 dual stereo return modules, netting a total of 106 inputs in mix (96 mono inputs and 10 stereo returns).

Both frames come standard with a patchbay accepting up to 48 input modules, 5 dual stereo return modules, a comprehensive master section with Surround Sound encoding and decoding connectors, as well as 256 Tie lines.

CINEMIX'S BASIC FEATURES.

Dual Input Module - High resolution 13 segment LED bargraph meter per channel, ultra linear high performance mic pre, 10 discrete Aux sends - switchable to 34 Aux sends, two (2!) hi-def four band *fully sweepable* EQ's, two Inserts, two Solo's, two Mutes, two sets of automation controls, status LEDs on every switch and function, ARM LED array, 60mm monitor fader and 100mm channel fader, and dual concentric LCR and Surround panning in the MIX path.

Cinemix's **Recall Section -** Instant push button snapshot recall of all console routing setups featuring snapshot recall of all ARM digitally controlled routings and assignments, console reconfigure at the touch of a button, and session templates for easy and accurate setup.

Cinemix comes standard with **PowerVCA Automation** and is available with an optional **PowerFade** motor fader automation package. In addition, an optional **PowerDynamics** package is available for either automation system.

Each input strip comes standard with two automated faders and 2 automated switch functions which can be dynamically automated against time-code.

An additional 12 routing functions and routing of L/R, Center, Surround, Sub Bass, Tape switch, and Joystick positions can be automated via Cinemix's ARM Recall.

Cinemix's **ARM** allows access to the group busses by the Mix path, Channel path, Aux 5/6 or any combination of the three, allowing functions and extremely complex routings that are difficult at best on other consoles.

Functions such as 34 Aux sends during mixdown or tracking and mixing complicated LCRS routings have been made easy - and instantly resetable - because any ARM setup can be recalled at the touch of a button.

The comprehensive master section will allow Soloing of Center, Stereo Surround, and Sub Bass. Encoding and decoding interface electronics is fitted to allow the engineer control over the most complex "surround" mix sessions. The 6 way CRM (Control Room Monitor) is digitally controlled allowing for stored presets in listening levels as suggested by major surround encoding/decoding equipment manufacturers.

The **V**irtual **V**ision (**V.v.**) provides a visual interface capable of tracing 360 degrees of panned audio. Cinemix comes standard with monitoring facilities ready for interfacing a L/C/R Surround Sound Processor. The CRM monitor control is a six channel digital attenuator with switching for up to three sets of control room monitor systems and "LCRS" outputs.

Cinemix will allow you to source up to five stereo sources (which can all be summed) as well as monitoring of Aux 1-2 and Aux 7-8 (for stereo cue systems).
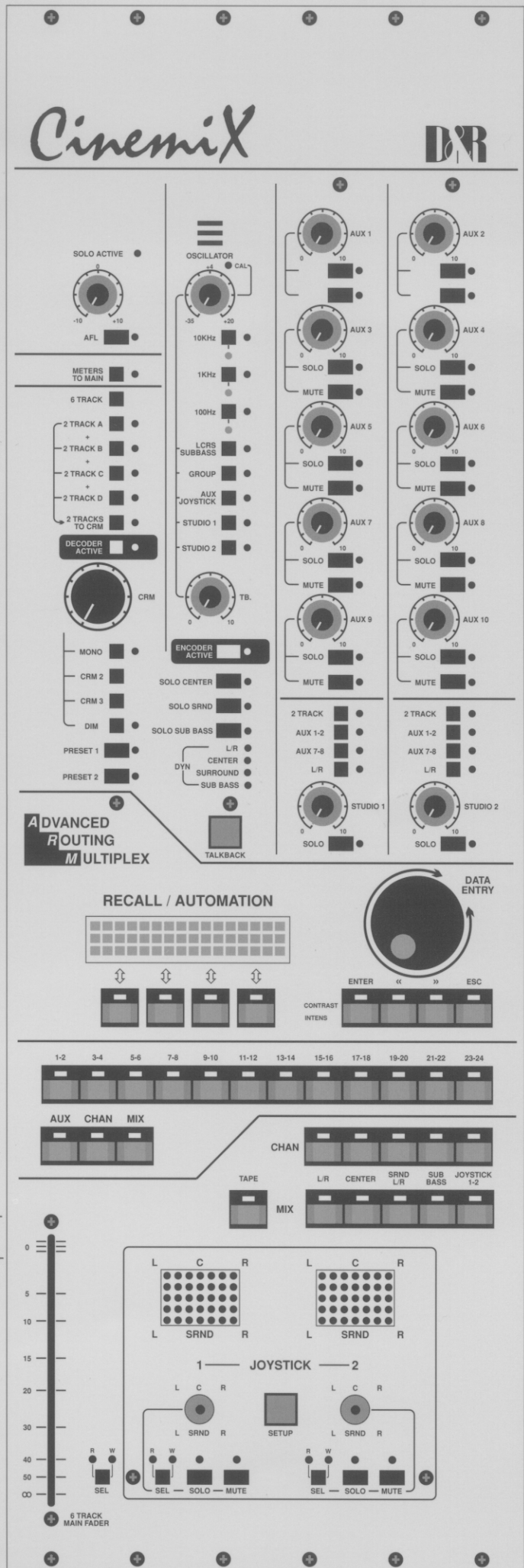
An extensive communications system, oscillator section, two studio cue systems, Recall / Automation controls, ARM section, and 10 Aux send masters with automated Mutes complete the master section.

Patchbay - Cinemix comes standard with up to an 816 point balanced T.T. patchbay which includes 256 Tie-lines and complex master patching.

Metering - Cinemix is fitted with six master analog VU meters, and a phase meter. Each dual input module comes standard with a 13 segment peak meter fitted in the meterbridge.

This should give you a brief view of the power that Cinemix will unleash for those who use it.

OPTIONS.

"**PowerFade**" Motorfaders (follow VCA's).
"**PowerDynamics**" (Virtual dynamics).

SPECIFICATIONS.

INPUTS.

Mic: 2 kOhm bal. noise: -129 dBr, maximum gain 84dB.
Line: 10kOhm bal. 0dBu, +/-20dB.
Tape: 10kOhm bal. +4dBu (+/- 20dB adjustable).
Insert returns: 10kOhm bal. 0dBu.
2 Track A/B/C: +4dBu bal., 10kOhm.
2 Track D: -10dBv bal., 10kOhm.
6 Track: +4dBu, 10kOhm.
En-/decoder: 0dBu in/outputs.

OUTPUTS.

Tape (group) outputs: +4dBu/-10dBv selectable
All outputs: +4dBu Grnd compensated balanced, max output +22dBu.
Master Left/Right outputs: +4dBu balanced.
Insert sends: 0dBu (gnd. comp.) bal.

OVERALL.

Headroom: no less than 22dB.
Freq. resp: 10Hz - 100,000Hz (-2dB).
Harmonic distortion: 0.007% (VCA out)
Harmonic distortion: 0.016% (VCA in, That 2180B, 2nd harmonic dist. only)
Noise: 32 channel routed -89dBr.
Crosstalk: no less than 90 dBr.

CONFIGURATIONS:

Cinemix 32:
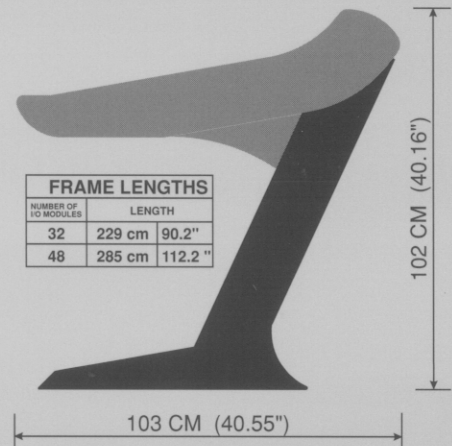32 dual-line modules / master/
3 blanks / 5 stereo-returns / patchbay.

Cinemix 48:
32 dual-line modules / master /
3 blanks / 5 stereo-returns / 16 dual-line modules / patchbay.

DIMENSIONS AND WEIGHT.

FRAME LENGTHS		
NUMBER OF I/O MODULES	LENGTH	
32	229 cm	90.2"
48	285 cm	112.2 "

Cinemix 32: 300kg / 660 Lbs.
Cinemix 48: 400kg / 880 Lbs.

For more information about Cinemix, contact D&R's support staff at one of the following offices.

D&R Electronica Weesp b.v.
Rijnkade 15B
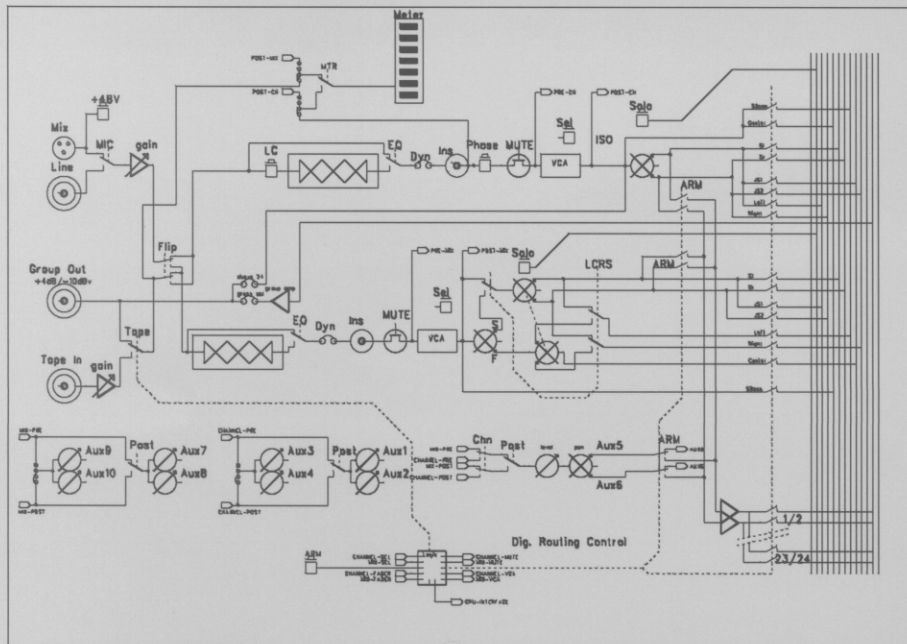1382 GS Weesp, The Netherlands.
Phone: ++31 (0)294 418-014.
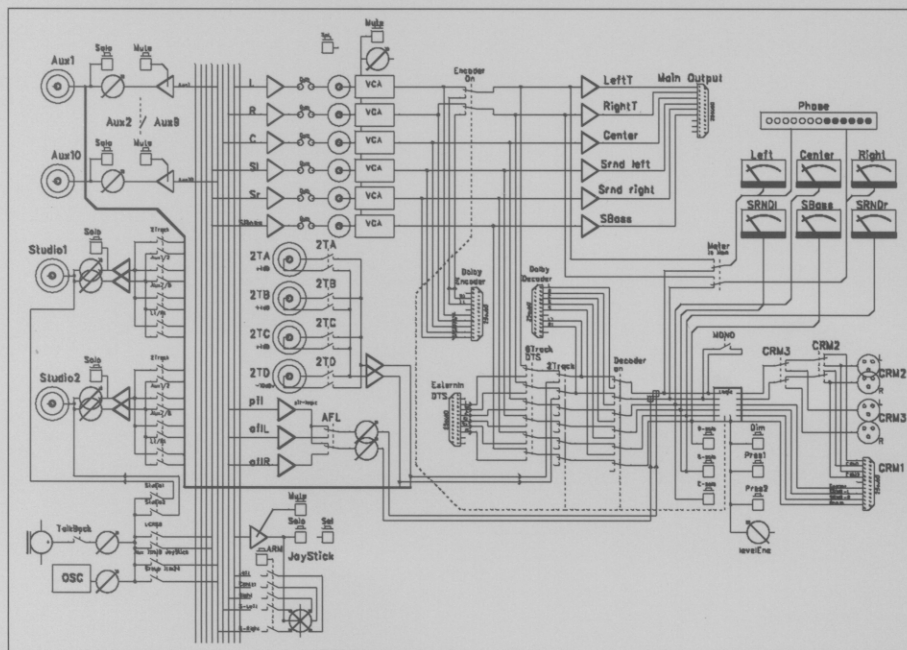Fax: ++31 (0) 294 416-987.

D&R North America.
Phone: (903) 485-2344.
Phone: (818) 291-5855.
E-mail: drna@koyote.com

DUAL IN/OUT MODULE.

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