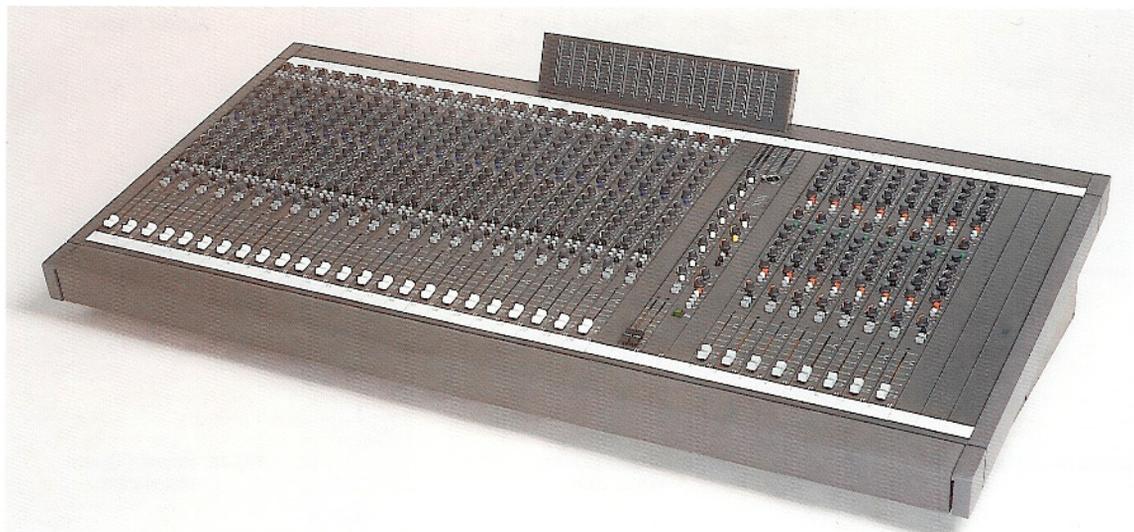


DATUM

A new series of mid-priced modular consoles



DATUM

Audio
Transparency
Flexibility
Reliability

- †† A range of 4, 8 and 12 buss modular consoles with dedicated configurations for studio recording, sound reinforcement and stage monitoring.
- †† Three types of input and output modules to suit the application and individual requirement.
- †† Five different frame sizes allowing up to 48 inputs on many configurations.
- †† Compact - 40/12/24 recording (with 64 inputs available at mixdown) or 48/12 monitor console in frame less than 2 metres.
- †† Inputs available include 4 band EQ with 2 swept mids and up to 8 aux sends.
- †† Separate tape input sockets on deluxe inputs - no need to repatch on mixdown.
- †† EQ and aux sends on all tape monitors.
- †† Meter bridge standard on recording console - sound reinforcement and stage monitor consoles have output metering on modules with meter bridge optional.
- †† FX return module gives two mono and one stereo return.

Studio Recording
Sound Reinforcement
Stage Monitoring
Theatre

DATUM - Input Modules

Standard Input Module

Pad: Attenuates mic input by 20dB

Gain: +20 to +60 mic, -20 to +20 line or tape

Line: Selects line input

EQ: Three band with swept mid

EQ In: Inserts EQ into signal path

Aux 1/2: Post EQ/pre fade sends for monitoring

Aux 3/4: Post fade sends for effects

Aux 5/6: Post fade sends for effects

Routing: Routes signal to mix busses and up to 8 subs

Pan: Apportions signal between selected busses

Off: Illuminated. Mutes the signal at the fader

PFL: Illuminated. Allows signal to be monitored pre-fade

Peak: Illuminates if signal exceeds +10dB

Sig: Illuminates if signal exceeds -20dB

100mm carbon fader calibrated in dB

Deluxe Input Module

48V: Applies 48V phantom power to mic XLR

Pad: Attenuates mic input by 20dB

Gain: +20 to +60 mic, -20 to +20 line or tape

ø: Reverses the phase of selected input

Line: Selects line input

HP: Applies 75Hz/12dB filter to selected input

Tape: Selects tape input - overrides line selection

EQ: 4 band with swept mids

EQ In: Inserts EQ into signal path

Aux 1/2: Post EQ/pre fade sends for monitoring

Aux 3/4: Post fade sends for effects

Aux 5/6: Switchable pre/post fade and assignable to busses 7&8. This allows 4 monitors and 2 effects to be used on any channel and up to 6 monitors or effects to be used with 2 or more channels

Routing: Routes signal to mix busses and up to 12 subs

Pan: Apportions signal between selected busses

Off: Illuminated. Mutes the signal at the fader

PFL: Illuminated. Allows signal to be monitored pre-fade

Peak: Illuminates if signal exceeds +10dB

Sig: Illuminates if signal exceeds -20dB

100mm carbon fader calibrated in dB

Stereo Input Module

Gain: -20 to +20dB with centre detent at 0dB

ØL: Reverses the phase of the left input

MNO: Sums the left and right signals together

EQ: Three band with swept mid

EQ In: Inserts EQ into signal path

Aux 1/2: Pre fade summed mono sends for monitoring

Aux 3: Post fade send for left input signal

Aux 4: Post fade send for right input signal

Routing: Routes signal to mix busses and up to 8 subs

Bal: Balances signal between selected busses

Off: Illuminated. Mutes the signal at the fader

PFL: Illuminated. Allows signal to be monitored pre-fade in mono

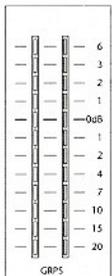
Peak: Illuminates if signal exceeds +10dB

Sig: Illuminates if signal exceeds -20dB

100mm stereo carbon fader calibrated in dB

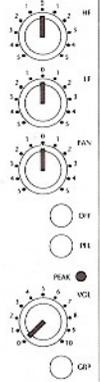
Datum - Group Modules

Dual Group/Output Module



LED Display: 12 way with range -20 to +6dB, post fade

FX Return Section



HF/LF: 2 band shelving EQ

Pan: Apportions signal between selected busses

Off: Mutes the signal

PFL: Allows signal to be monitored pre fade

Peak: Illuminates if signal exceeds +10dB

Vol: Controls the signal level to selected busses

GRP: Changes routing from mix to the subgroup section below



Dual Subgroup Section

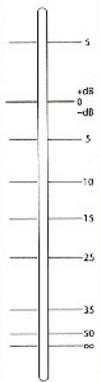
STE: Used in conjunction with the Mix button. Normally both subs are sent in mono to the Mix outputs. With this button depressed, the left group is sent to the left output and the right group to the right output.

Mix: Routes signal to Mix busses

Bal: Balances signal between two mix busses

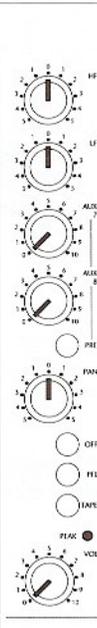
Off: Illuminated. Mutes the signal at the fader

PFL: Illuminated. Allows the signal to be monitored pre fade in mono



100mm stereo carbon fader calibrated in dB

Recording Group Module



Monitor Return Sections

HF/LF: 2 band shelving EQ

Aux 7/8: Switchable pre/post fade for monitoring or effects

Pre: Switches Aux 7/8 pre fade

Pan: Apportions signal between selected busses

Off: Mutes the signal

PFL: Allows signal to be monitored pre fade

Tape: Selects tape return input

Peak: Illuminates if signal exceeds +10dB

Vol: Controls signal level to selected busses

FX Ret: Selects FX return input (lower section only)

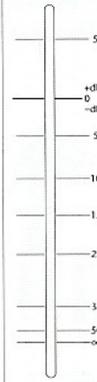


Subgroup Section

Fad Rev: Reverses the electrical position of the subgroup fader and the lower returns' level control

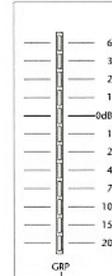
Off: Illuminated. Mutes the signal at the fader

PFL: Illuminated. Allows signal to be monitored pre fade in mono



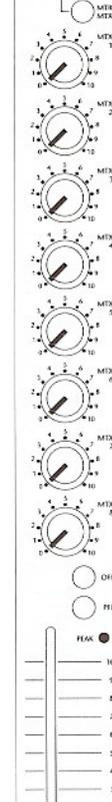
100mm carbon fader calibrated in dB

Matrix Group Module



LED Display: 12 way with range -20 to +6dB, post fade

MTR MTX: Switches the display from group to matrix monitoring

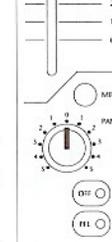


MTX 1-8: Sends to the 8 matrix outputs. Internally selectable pre or post main fader

Off: Mutes the matrix output on this module

PFL: Allows the matrix output to be monitored pre fade

Peak: Illuminates if signal exceeds +10dB



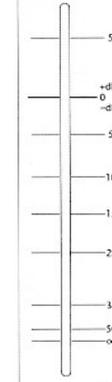
Subgroup Section

Mix: Routes signal to Mix busses

Pan: Apportions signal between Mix busses

Off: Illuminated. Mutes the signal at the fader

PFL: Illuminated. Allows signal to be monitored pre fade



100mm carbon fader calibrated in dB

Audio transparency, flexibility, reliability

The sound engineer and the application determine the many different requirements from a mixing console. Drawing on seventeen years of experience in designing and manufacturing live and recording consoles we have created a series which offer a degree of flexibility unique in this price category. The Datum also maintains the Hill Audio philosophy of design to the very highest standard of audio transparency and rugged reliability.

Recording configurations are fitted as standard with the meter bridge, monitoring all outputs. There are the options of standard, deluxe and stereo input modules and these can be mixed in any combination within the same console. The standard input has 48V phantom powering, three band EQ with a swept mid, 6 dedicated auxs and can route to 8 busses using the assign facility. With the deluxe module you gain 48V phantom powering switchable on each module, phase reverse, high pass filter, tape return, four band EQ with two swept mids, 8 auxs and routing up to 12 busses.

The stereo module uses the standard EQ, has 4 auxs and routing to 8 busses. All inputs have input and peak leds and use high quality 100mm carbon track faders. The recording group module has two return and one subgroup section with fader reverse for the lower return. Each return has two band EQ, 4 auxs switchable pre or post fade, mute, pfl and tape return and switch for fx return on the lower section. All channel mute and pfl switches are illuminated.

The master section contains the mix master module with the aux masters. Output is monitored on 12 led bar graphs. The mix functions module contains the led display for visual pfl monitoring, facility for mic with level and routing controls, power supply status leds, headphone output control with mix/pfl switch, oscillator, monitor level and switching for up to three 2 track returns to be brought back into the console.

Recording configurations include:-

16, 24, 32 or 40/8/16/2 with recording group module

16, 24, 32 or 40/12/24/2 with recording group module

Live consoles offer the same input modules with two options on output modules according to the application. The dual group/output module has 2 FX return sections with 2 band shelving EQ, pan, mute, pfl, peak led, level control and routing to the subgroup section below or to mix. The dual subgroup section gives this module a new dimension of flexibility of use, the STE

button which allows sending one stereo or two mono signals to the left and right outputs. Mute, pfl and stereo fader complete this section. Alternatively, for applications such as theatre, is the matrix group module which has led output metering, full 8 x 8 way matrix with fader output and single subgroup section. Sound reinforcement configurations include:-

16, 24, 32, 40 or 48/4/2 with dual group module

16, 24, 32, 40 or 48/8/2 with dual group module

16, 24, 32, 40 or 40/8 x 8/2 with matrix module

The monitor consoles consist of three main modules - input, dual output and functions. Inputs feature pad and gain, phase reverse and 75 Hz/12dB switchable filter, four band EQ with two swept mids and defeat, 12 sends with 1 and 2 being switchable to aux sends. Mute, pfl, signal and peak leds and master output complete

the input module. The dual output has led metering, three band EQ with swept mids and two auxs. The functions module has the pfl led monitoring, power supply status, aux master levels with peak leds, headphone level, aux mic and routing of mic to groups and monitor volume control. Monitor console configurations are:-

24/12, 32/12, 40/12 and 48/12

There is also an optional fx return module which has two mono and one stereo returns each with 2 band shelving EQ, routing to mix and up to 4 busses, pan, mute, pfl, peak led and level control.

The meter bridge which is standard on the recording console is available as an option on live consoles. The very high quality

power supply is fan cooled to ensure consistently reliable performance and is voltage selectable on the rear. Connectors are XLR type for mic, and jack for all other inputs and outputs. All input modules feature direct in and out sockets.

Compare the facilities and sound quality, consider the creative flexibility and you will soon realise that in this category of console the Datum is unequalled.

Due to our policy of continual product development specifications may alter from those shown within this publication, at any time



Datum - Monitor Modules

Monitor Input Module

PAD: Attenuates mic input by 20dB

Gain: +20 to +60 mic, -20 to +20 line or tape

Ø Reverses the phase of selected input

HP: Applies 75Hz/12dB filter to selected input

EQ: 4 band with swept mids

EQ In: Inserts EQ into signal path

Sends 1&2: Send to outputs 1&2 or to aux 1&2

Send 3-12: Send to outputs 3-12

Off: Illuminated. Mutes the signal

PFL: Illuminated. Allows signal to be monitored pre Vol control

Peak: Illuminates if signal exceeds +10dBu

Sig: Illuminates if signal exceeds -20dBu

Vol: Controls the overall level to all output groups

Monitor Dual Output Module

LED Displays: 12 way with range -20 to +6dB, post fade

EQ: 3 band with swept mids

EQ In: Inserts EQ into signal path

Aux 1&2: Post EQ/post fade sends for effects

Off: Mutes signals at the faders

AFL: Allows signals to be monitored after fade

100mm carbon faders calibrated in dB

Monitor Functions Module

LED Display: 12 way with range -20 to +6dB. Allows any pre fade level to be monitored visually

PSU Status: Indicates the status of all power rails

Aux 1&2: Master level controls for auxes 1&2

AFL: Allows the aux outputs to be monitored post fade

Peak: Illuminates if level exceeds +10dBu

Phones: Level control for headphones

Aux Mic: Level control for auxiliary talkback mic

On: Turns aux mic on

Mic: Level control for talkback mic

Aux: Routes mic to auxes 1&2

Grps 1-12: Routes mic to subgroups

Mon Vol: Controls the output level of any signals assigned to PFL

Off: Mutes the monitor output

Press to Talk: Turns the mic on

Datum - Mix & FX Return Modules

Mix Master Module

LED Display: 12 way with range -20 to +6dB, post fade

Aux Master Section

Aux 1-8: Master level control for master outputs
AFL 1-8: Allows the signal to be monitored post fade
Peak 1-8: Illuminates if signal exceeds +10dBu

Mix output section

Off: Illuminated. Mutes the signal at the fader
PFL: Illuminated. Allows signal to be monitored pre fade in mono

100mm carbon faders calibrated in dB

Mix Functions Module

LED Display: 12 way with range -20 to +6dB. Allows any pre fade level to be monitored visually

Mic: Metal XLR mic. input

PSU Status: Indicates the status of all power rails

Phones: Level control for headphones

Mix/PFL: Selects the signal to be sent to headphones

Osc: Level control for the oscillator

On: Routes oscillator to all outputs

Mic: Level control for talkback mic

Mix: Routes mic to mix
Grps: Routes mic to subgroups
Aux 1/2: Routes mic to auxes 1 and 2
Aux 7/8: Routes mic to auxes 7 and 8

PFL Vol: Controls the level of any PFL signal to be sent to the monitor section
Mon Vol: Controls the output level of the monitor section

Off: Mutes the monitor outputs
APS: When depressed, any signal that is assigned to PFL will be sent to the monitor section
2TA/B/C: Allow up to three 2 track returns to be brought back into the console
Press to talk: Turns the mic on and dims monitor output

FX Return Module

Mono Returns

2 band shelving EQ

Routing: Routes signal to mix busses and up to 4 subs

Pan: Apportions signal between selected busses
Off: Mutes the signal
PFL: Allows signal to be monitored pre fade
Peak: Illuminates if signal exceeds +10dBu
Vol: Controls signal level to selected busses

As above

Stereo Return

2 band shelving EQ

Routing: Routes signal to mix busses and up to 4 subs

Bal: Balances signal between selected busses
Off: Illuminated. Mutes the signal
PFL: Illuminated. Allows signal to be monitored pre fade
Peak: Illuminates if signal exceeds +10dBu
Vol: Controls signal level to selected busses