

Elan Functions

Input Module

Mic Gain Control	Adjusts the gain of the microphone pre-amplifier. The range is from +20db to +60db with the peak LED coming on at 6db below output clipping (+22dbu).
48 Volts	Applies +48 VDC phantom power to the mic input for condenser microphones.
Mic Pad	Inserts a 20db attenuation pad into the mic input stage.
Polarity	Inverts the phase of the mic input.
Low Cut Filter	Inserts a 2 pole 80hz low cut filter into the mic signal path.
Line Pad	Inserts a 6db attenuation pad into the tape return or line input path.
Aux AB Panpot	Pans Aux AB output between A and B bus
Aux Level Controls (AB, 1, 2, 3, 4,)	Sets output level to each Aux bus.
Aux AB Post	Is normally fed pre fader unless POST is selected.
Aux Fader	Is normally fed from the Monitor unless FADER is selected.
Aux Pre	Is normally fed post fader unless PRE is selected.
EQ In	Inserts the EQ circuit into the Fader signal path.
High EQ	The dual concentric knob adjusts the shelving frequency range from 1K to 20K with the outside knob While adjusting for a cut or boost of 14db with the inside knob.
High Mid EQ	The dual concentric knob adjusts the center frequency range from 400 to 8K with the outside knob While adjusting for a cut or boost of 14db with the inside knob.

Low Mid EQ	The dual concentric knob adjusts the center frequency range from 50 to 1.2K with the outside knob While adjusting for a cut or boost of 14db with the inside knob.
Low EQ	The dual concentric knob adjusts the shelving frequency range from 20 to 400 with the outside knob While adjusting for a cut or boost of 14db with the inside knob.
Monitor Source Input	Is normally fed from the Tape Return/Line input unless MIC is selected.
Fader	When FADER is selected the Monitor is fed from the output of the Fader. This overrides the Line/Mic.
Monitor Solo	The PFL signal is routed to the control room monitors when activated, muting all other control room inputs. Both the yellow LED on the channels soloed and the Master section will illuminate.
Monitor Pan	This normally pans the output of the Monitor path to the Left and Right Mix bus. When the REV switch is engaged the signal is panned to the Multi-track bus assignment.
Monitor Level	This is a rotary fader with a gain of 12db. The unity setting is about 7 on the silkscreen.
On	When the Monitor output is ON, the green LED will be illuminated.
Fader Source	Is normally fed from the Mic path unless LINE is selected. This simultaneously switches the Meter source from Tape Return/Line input to post Insert, post EQ.
Fader Solo	The PFL signal is routed to the control room monitors when activated, muting all other control room inputs. Both the yellow LED on the channels soloed and the Master section will illuminate.
Fader Pan	This normally pans the output of the Fader to the Multi-track Bus assignment. When the REV switched is the signal is panned to the Left and Right Mix bus.

Fader The standard Elan comes equipped with a Penny & Giles 8000 series fader. The fader has 12db of gain at the top of the scale. Options include Audiomate motorized faders, Midi Direct (automated midi mutes) and 3 mute group faders with “solo in place”.

Multi-track Assignment These switches determine the recording busses that are fed from the output of the Fader (or Monitor if the REV switch is engaged.). The pan pot determines the odd or even bus. LR can also be selected allowing both the Fader and Monitor to feed the Left and Right Mix bus (2 Mix). The Multi-track busses can also be used as additional Aux sends.

Master Section

Talkback Mic Input High quality mic pre with +18VDC phantom power continuously available.

Aux Master Sends Aux Bus output level control with 12db gain. Unity is about 7 on the panel silkscreen.

Aux Solo The AFL signal is routed to the control room monitors when activated, muting all other control room inputs. Both the yellow LED on the Aux soloed and the Master section will illuminate.

Stereo Inputs to Mix Two stereo inputs to the Mix bus with Level, AFL Solo and On switch are provided for stereo effects returns or any other stereo source.

Talkback Switch Dims Control Room monitors and overrides signal to Aux AB and Studio speakers.

Oscillator The onboard oscillator can generate either 1K or 100hz by pressing the labeled switches or 10K by engaging both switches.

Tones Sends oscillator signal to Multi-track and Mix bus.

Slate Sends 50hz tone and talkback to Multi-track and Mix bus.

Oscillator Level	Controls the output of the oscillator for Tones, Slate and to the patchbay.
Talkback Level	Controls the output level of the talkback microphone amplifier to all destinations.
Meter Controls	The analog VU meter source is selectable from the following switches in pairs; Mult L and R jacks on the patchbay, Aux AB, Aux 1-2, Aux 3-4, and whatever is feeding the Control Room Monitor.
Studio Section	A Level Control is provided for the Studio speakers as well as a source selection of either Aux AB or Control Room. A Speaker on switch with an illuminating LED lets you know when the Studio speakers are on.
Control Room Monitoring	A set of 4 switches allow the Control Room to be fed from the Mix bus, Tape 1, Tape 2, or Extra Input. The Control Room volume is set with a 32-detent position sealed pot with a large easy to find knob.
Speaker Selection	Three sets of speakers may be selected by the A, B and C switches. A MONO switch is provided for checking mix compatibility. A DIM switch attenuates CR levels by 20db when pressed.
Master Solo	A yellow LED in the Control Room section illuminates whenever a Solo function anywhere on the console is engaged. A solo lockout switch is provided to disable all solo functions. A red LED is illuminated when this switch is pressed.