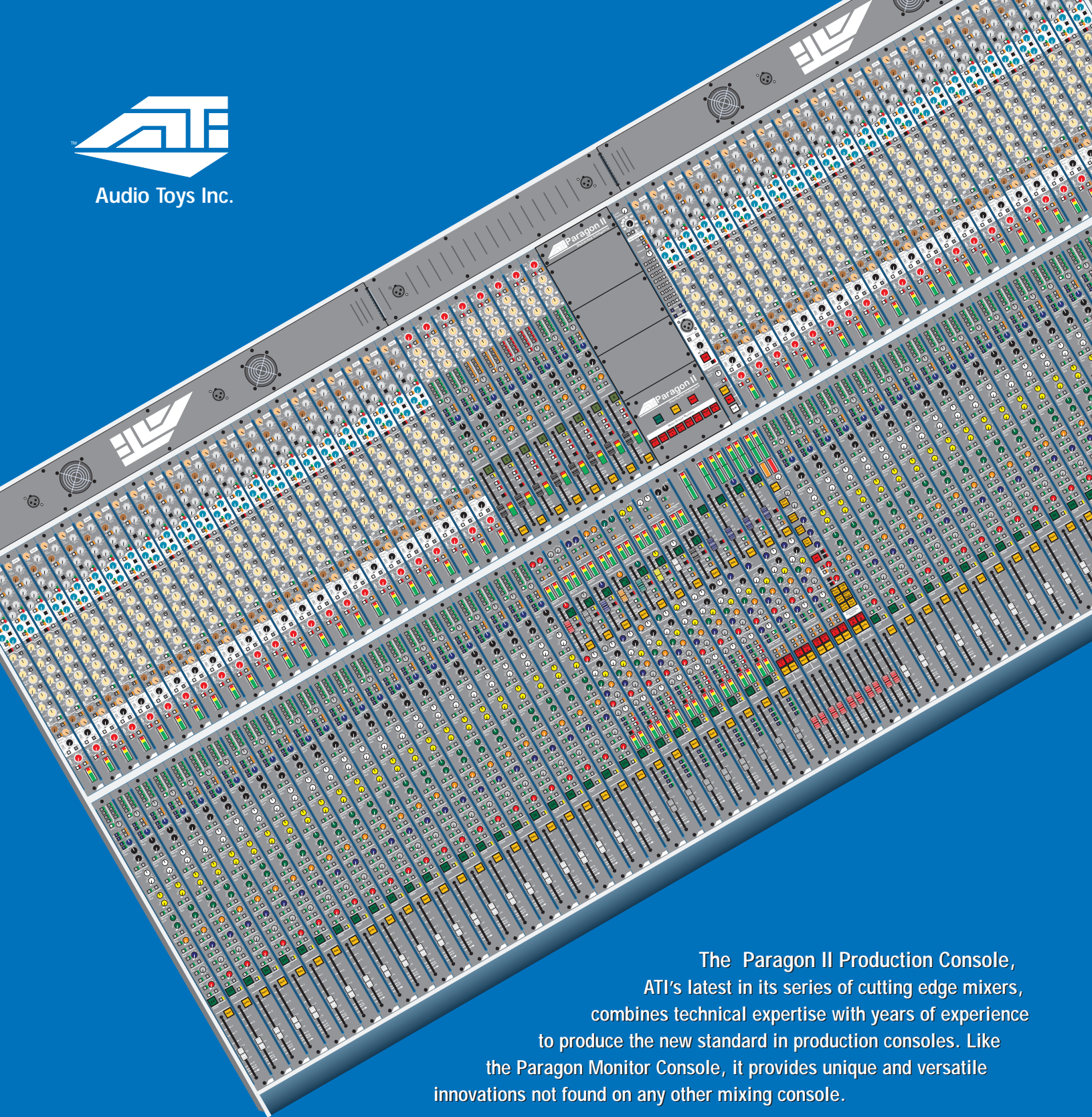




Audio Toys Inc.



The Paragon II Production Console, ATI's latest in its series of cutting edge mixers, combines technical expertise with years of experience to produce the new standard in production consoles. Like the Paragon Monitor Console, it provides unique and versatile innovations not found on any other mixing console.

Paragon II Production Console

ATI's unique Distributed Intelligence™ technology eliminates computer crashes and subsequent reboot delays by providing each channel with the independence to handle all reset functions. Input channels feature ATI's ultra-high quality proprietary mic pre-amp plus full, state-of-the-art processing. The standard Production console is equipped with over 88 assignable inputs, making the Paragon II Production Console ideal for use on tour, in broadcast trucks, and other live production applications.

PARAGON II CHANNEL PROCESSING (UPPER) MODULE

PARAGON II STEREO CHANNEL PROCESSING (UPPER) MODULE

Key signal variable
Low Pass filter @ 24dB/oct.

Key signal variable
High Pass filter @ 24dB/oct.

Ext switch selects an external signal
for use in the gate side chain pre filters

Gate Attenuation is
variable from 0dB to -60dB

Solo Sig selects whether Gate (up)
or Comp (down) feeds Mono Solo

Threshold level setting for
gate, from -40dBu to +10dBu

Ext switch selects an external signal
for use in the side chain of the compressor

Compressor Ratio variable from 1:1 to 10:1

Switch inserts Compressor into
the audio channel path. Green LED
lights when inserted, yellow LED shows
compressor over threshold - (compressing)

Selects Insert Return (LED shows ON)

High Frequency Q control
variable from .2 to 2 octaves

High-Mid Frequency Q control
variable from .2 to 2 octaves

Low-Mid Frequency Q control
variable from .2 to 2 octaves

Low Frequency Q control
variable from .2 to 2 octaves

High Pass Filter is variable
24dB/oct from 20 Hz to 370Hz

Low Pass in/out switch with LED

Switch to select PRE signal for direct out
depending on board-level jumper point

Outer control adjusts Insert Send
level from infinity to +6dB max gain

Applies 48 Volt phantom
voltage to the input XLR



Decay time in seconds for gate
closure, variable from .007 to 5 sec.

Hold time for the gate. In
seconds, the time the gate
will hold before beginning the
decay time. Variable from .005 to 4 sec.

Attack time for the gate. In milli-
seconds, variable from .01 to 60 m/sec

In switch, when depressed
activates gate. 2 LEDs
indicate gate is closed or open

Compressor Gain control.
Allows make-up gain in
compressor from 0dB to +20dB

When depressed, compressor
threshold knee is "rounded"

Compressor Threshold
variable from -40dBu to +10dBu

When depressed, insert point
is placed before the EQ (PRE)

High Peaking/shelving switch

Inner - level control
with range of +/-18dB

Outer - Frequency range
from 1K to 16KHz

High-Mid Peaking/shelving switch

Inner - level control
with range of +/-18dB

Outer - Frequency range
from 550Hz to 8KHz

Low-Mid Peaking/shelving switch

Inner - level control
with range of +/-18dB

Outer - Frequency range
from 150Hz to 2.4KHz

Low Peaking/shelving switch

Inner - level control
with range of +/-18dB

Outer - Frequency range
from 30Hz to 460Hz

EQ in/out switch with LED

High Pass in/out switch with LED

Low Pass Filter variable @ 24dB/oct
from 25 KHz to 1.4 KHz

Direct Out control - Adjusts
Stereo out level and pan OR
"A" and "B" outputs when in Mono

This switch changes the direct
out from Stereo to 2 Mono
signals w/individual level control

INPUT GAIN - inner control adjusts
mic gain. Range is 0 to +65dB.
Max input is +24dBu

Phase switch reverses
the input polarity

10 segment LED input
meter shows input level from
-24 to +21dB

Key signal variable
Low Pass filter @ 24dB/oct.

Key signal variable
High Pass filter @ 24dB/oct.

Ext switch selects an external signal
for use in the gate side chain pre filters

Gate Attenuation is
variable from 0dB to -60dB

Solo Sig selects whether Gate (up)
or Comp (down) feeds Mono Solo

Threshold level setting for
gate, from -40dBu to +10dBu

Ext switch selects an external signal for
use in the side chain of the compressor

Compressor Ratio variable from 1:1 to 10:1

Switch inserts Compressor into
the audio channel path. Green LED
lights when inserted, yellow LED shows
compressor over threshold - (compressing)

Selects Insert Return (LED shows ON)

High Frequency range 1KHz to 16KHz

High Mid Frequency range .550Hz to 8KHz

Low Mid Frequency range 150Hz to 2.4KHz

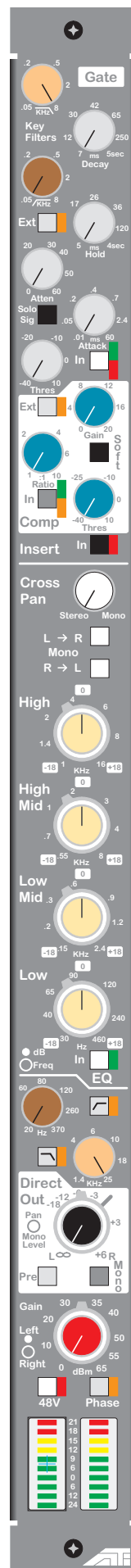
Low Frequency range 30Hz to 480Hz

High Pass Filter is variable from
20 Hz to 370Hz @ 12dB/oct.

Low Pass in/out switch with LED

Switch to select PRE signal for direct out
depending on board-level jumper point

Applies 48 Volt phantom
voltage to the input XLR



Decay time in seconds for gate
closure, variable from .007 to 5 sec.

Hold time for the gate. In
seconds, the time the gate
will hold before beginning the
decay time. Variable from .005 to 4 sec.

Attack time for the gate. In milli-
seconds, variable from .01 to 60 m/sec

In switch, when depressed activates gate.
2 LEDs indicate gate is closed or open

Compressor Gain control.
Allows make-up gain in
compressor from 0dB to +20dB

When depressed, compressor
threshold knee is "rounded"

Compressor Threshold
variable from -40dBu to +10dBu

Selects Insert Return (LED shows ON)

Cross Pan pot adjusts Stereo
separation from full Stereo
to fully L&R combined Mono

When depressed, the signal from a
single input is applied to both L & R
paths of the channel. If both are
depressed, signal is mono.

The EQ is a Stereo 4-band EQ
with sweep frequency adjust,
+/-18dB and center detents.

EQ in/out switch with LED

High Pass in/out switch with LED

Low Pass Filter variable from
25KHz to 1.4KHz @ 12dB/oct

Direct Out control - Adjusts
Stereo out level and balance OR
"A" and "B" outputs when in Mono

This switch changes the direct
out from Stereo to 2 Mono
signals w/individual level control

INPUT GAIN - inner control adjusts LEFT
mic gain, outer adjusts RIGHT. Range is
0 to +65dB. Max input is +24dBu

Phase inverts the input
polarity of the LEFT channel

10 segment LED input meters show
Stereo input level from -24dB to +21dB

PARAGON II CHANNEL ASSIGN (LOWER) MODULE

Mode switch, selects the operation of the assignment switches.
Stereo Audio group (Green)
VCA group (Orange)
Mute group (Red)

Mix assignment switches for mono busses normally fed post fader

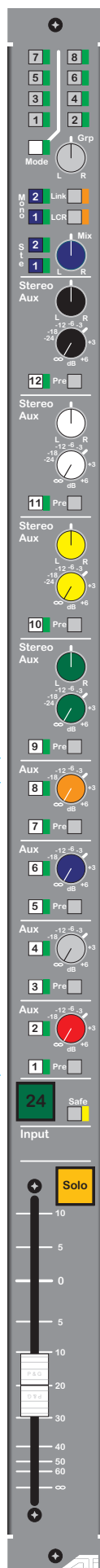
Mix assignment switches for stereo busses post mix pan signal

Aux assignment switches for stereo busses

Aux assignment switches for mono busses

Channel on/off switch, illuminated. Lit is ON.

100 mm long throw P&G audio fader with infinity to +10dB gain



Note: When LINK and LCR are selected, Mix pan Left / Right signals feed even stereo group assignments. Center channel feeds right of odd stereo group assignments and channel post fader mono feeds left of odd stereo group assignments.

Group Pan

Link switch, places Mix pan signal to feed group routing.

LCR switch, changes Mix pan to LCR configuration. Mono mix assignments are fed with the center signal.

Mix pan.

Stereo Aux pan

Aux send level for stereo busses

Aux send level for mono busses 1 & 2

Aux send pre/post fader select

Safe switch. Removes the channel from scene/mute control

Solo switch. Selects channel pre, post and side chain signals to the master section. There are several solo modes. See Master section.

Note: Mono and Stereo input lower assign controls are identical

PARAGON II GROUP, MATRIX, AUX MASTER MODULE

Aux output level control location when stereo aux.

Odd AUX buss master

Matrix/Aux left and right 10 segment output meter -12dB to +15dB range

65mm long throw fader P&G audio fader with infinity to +6dB gain

Matrix inject level from infinity to +6dB

Stereo Matrix send level controls from infinity to +6dB

Group inject level from infinity to +6dB

Group Inject assignment switches to Stereo Mix 1 and 2 busses post pan signal

Group inject assignment
INS switch. Select insert return. (LED shows ON)

Group left and right 10 segment output meter -12dB to +15dB range

Group on/off switch, illuminated. Lit is ON

100mm long throw fader P&G audio fader with infinity to +10dB gain



Aux output balance control location when stereo aux

Even AUX buss master

AUX on/off switch, illuminated. Lit is ON

Solo switch. Selects pre, post signals to the master section. There are several solo modes. See Master section.

Matrix output balance

Matrix on/off switch, illuminated. Lit is ON

Safe switch. Removes the Matrix and Aux from scene/mute control.

INS switch. Select insert return. (LED shows ON)

Selects Aux summing amp output to feed Matrix summing buss

Selects AUX/Matrix meter to indicate Aux output level

Solo switch. Selects pre, post signals to the master section. There are several solo modes. See Master section.

Matrix inject balance control.

Pre switch. Selects pre or post group fader signal to matrix sends

Group inject balance control.

Solo switch. Allows the group inject signal to be monitored.

Mono switches, Right to Left, or Left to Right or Mono signal select for the group. Post insert point.

Post switch, selects insert point to be pre or post group fader.

Sum switch, selects the output of the summing amp to feed the meter. Group output level is normally metered.

Safe switch. Removes the group from scene/mute control

Solo switch. Selects pre, post signals to the master section. There are several solo modes. See Master section.

Mix assignment switches for mono busses

Mix assignment switches for stereo busses

Note: Stereo group and stereo matrix both have a post fader and mute mono sum output.

PARAGON II MONO MIX MASTER MODULE

Note: There are two mono mix master modules

100mm long throw fader P&G audio fader with infinity to +6dB gain

Mono inject level from infinity to +6dB

Stereo Matrix send level controls from infinity to +6dB

Stereo Input level from infinity to +6dB

Mix assignment switches for stereo busses post level and pan signal

B switch. When depressed will assign the VCA to Master B VCA

A switch. When depressed will assign the VCA to Master A VCA

Solo switch. When depressed will solo all channels assigned to the particular VCA

100 mm long throw P&G VCA fader with infinity to +10dB gain



Mono output meter
-36dB to +21dB range

Mono mix on/off switch, illuminated. Lit is ON

Safe switch. Removes the module from scene/mute control

INS switch. Select insert return. (LED shows ON)

PGM switch. Selects Mono output signal to the Program Monitor. See Master section.

Sum switch. Selects the output of the summing amp to feed the meter. Output level is normally metered.

Solo switch. Selects pre, post signals to the master section. There are several solo modes. See Master section.

Pre switch. Selects mono mix pre or post fader signal to matrix sends

Stereo Input balance.

To Matrix switch. Feeds the Stereo input signal to the matrix sends

Solo switch. Selects stereo input pre signal to the master section. There are several solo modes. See Master section.

Mute switch. When depressed will mute all channels assigned to the particular VCA

PARAGON II STEREO MIX MASTER MODULE

Note: There are two stereo mix master modules

100mm long throw fader P&G audio fader with infinity to +6dB gain

Stereo inject level from infinity to +6dB

Stereo Matrix send level controls from infinity to +6dB

Stereo Input level from infinity to +6dB

Mix assignment switches for stereo busses post pan signal

B switch. When depressed will assign the VCA to Master B VCA

A switch. When depressed will assign the VCA to Master A VCA

Solo switch. When depressed will solo all channels assigned to the particular VCA

100 mm long throw P&G VCA fader with infinity to +10dB gain



Left and Right output meter
-36dB to +21dB range

Stereo output balance.

Stereo mix on/off switch, illuminated. Lit is ON.

Safe switch. Removes the module from scene/mute control

INS switch. Select insert return. (LED shows ON)

PGM switch. Selects Stereo output signal to the Program Monitor. See Master section.

Sum switch. Selects the output of the summing amp to feed the meter. Output level is normally metered.

Solo switch. Selects pre, post signals to the master section. There are several solo modes. See Master section.

Stereo inject balance control

Pre switch. Selects stereo mix pre or post fader signal to matrix sends

Stereo Input balance.

To Matrix switch. Feeds the Stereo input signal to the matrix sends

Solo switch. Selects stereo input pre signal to the master section. There are several solo modes. See Master section.

Mute switch. When depressed will mute all channels assigned to the particular VCA

PARAGON II STEREO AUXILIARY INPUT MODULE

INPUT GAIN – inner control adjusts LEFT mic gain, outer adjusts RIGHT. Range is 0 to +65dB. Max input is +24dBu

Applies 48v phantom voltage to the input XLR

High Frequency range 1 KHz to 16KHz

Mid Frequency range 140Hz to 4.6 KHz

Low Frequency range 30Hz to 480Hz

Mode switch, selects the operation of the assignment switches.
Stereo Audio group (Green)
VCA group (Orange)
Mute group (Red)

Mix assignment switches for mono busses
Normally fed post fader

Mix assignment switches for stereo busses post mix pan signal

Aux assignment switches for stereo busses 11 & 12

Aux assignment switches for mono busses 7 & 8

100 mm long throw P&G VCA fader with infinity to +10dB gain



Phase – Inverts the input polarity of the LEFT channel

The EQ is a Stereo 3-band EQ with sweep frequency adjust, +/-15dB and center detents.

Note: When **LINK** and **LCR** are selected Mix pan Left / Right signals feed even stereo group assignments. Center channel feeds right of odd stereo group assignments and channel post fader mono feeds left of odd stereo group assignments.

Group Pan

Link switch, places Mix pan signal to feed group routing.

LCR switch, changes Mix pan to LCR configuration. Mono mix assignments are fed with the center signal.

Mix pan.

Stereo Aux pan

Aux send level for stereo busses

Aux send level for mono busses 7 & 8

Aux send pre/post fader select

Channel on/off switch, illuminated. Lit is ON.

Safe switch. Removes the channel from scene/mute control

When depressed, the signal from a single input is applied to both L & R paths of the channel. If both are depressed, signal is mono.

INS switch. Select insert return. (LED shows ON)

10 segment LED input meters show stereo input level from -24dB to +21dB

Solo switch. Selects pre and post signals to the master section. There are several solo modes. See Master section.

PARAGON II MASTER LOWER MODULE

Left and Right solo meters show level -36dB to +21dB

Solo switch, when lit external solo is monitored.

Output Post, when lit output post signal is monitored

Input Mono, when lit input side chain signal is monitored

Input Post, when lit input post fader signal is monitored

Pre Dynamics, when lit input pre dynamics signal is monitored

Solo in Place, when lit will allow an input solo(s) to mute all other inputs

DIM switch, dims the monitors signals. Selectable **Split** switch, Input solos to phones/output solos to monitor. Split-Dim Monitor will dim with an input solo

Left mute & **Right mute** switches for monitor signal. When **Mono Check** selected: Left only & Right only mono for monitor signal

Mono Check switch. When lit, monitor signals are combined in mono for phase and mix checking.

Solo Add switch. Cancels solo auto clear.

Input Solo switch. Clears any input solo.

Mute switch. When depressed will mute all channels assigned to A master VCA

Solo switch. When depressed will solo all channels assigned to A master VCA

100mm long throw fader P&G VCA with infinity to +10dB gain



10 segment LED meters show Compressor reduction and Gate attenuation level when an input channel is in solo.

External Solo Monitor level

Output post fader monitor level

Output pre fader monitor level

Input side chain monitor level

Input post monitor level

Input pre monitor level

INS switch, accepts insert return in the monitor path

Delay switch, inserts an optional delay into the monitor signal

Monitor level

Pre switch, feeds phone output pre monitor level

Phones level

PGM ON, Program on switch. Feeds the Stereo program signal to the monitor and phones

Input Prior(ity) switch. Allows input solo to override an output solo. PGM to phones in split

Out Solo switch. Clears any output solo

Mute switch. When depressed will mute all channels assigned to B master VCA

Solo switch. When depressed will solo all channels assigned to B master VCA

PARAGON II MASTER UPPER MODULE



Lamp Dimmer – Adjusts the intensity of the overhead lamps

OSCILLATOR – The inner adjusts the level of the Osc./Noise/TBK from infinity to +18dB. The outer sets the osc. frequency.

Switches to select frequency ranges of 20–200, 200–2k, and 2k–20kHz

These switches are used to activate the **Oscillator**, **Noise** and **Talkback** signals.

Pans between left and right or A/B odd/even busses

Oscillator, Noise and Talkback Buss assignment switches

There are 4 XLRs for talkback input. One here on the module, one on the rear panel, and one at each end of the front armrest. There is also a line input on the rear panel.

When depressed assigns the talkback signal to the balanced outputs at the rear of the console.

Level pot inner will adjust the mic gain for the talkback mic. The outer adjusts the level of the talkback line input.

TALK switch: when pressed and held, it is momentary; when pressed twice, it will latch until pressed again.

Assigns the talkback signals, post level controls, to the ICOM

Level pot will adjust the level of the ICOM signal to the headset and talkback

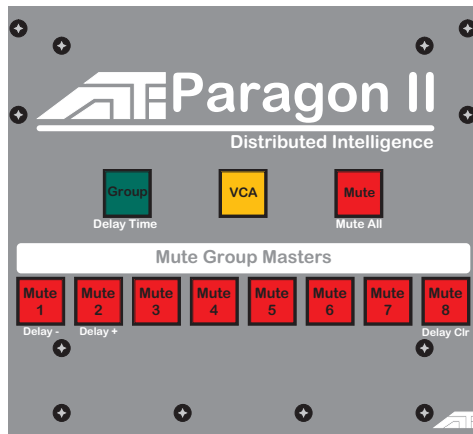
Assigns the ICOM signal to talkback

Solo switch, when depressed will solo the intercom signal to the input mono solo buss

Mic switch, turns on the intercom mic. When pressed and held, it is momentary; when pressed twice, it will latch until pressed again.

Call will illuminate when a call is detected, and can be used to call

PARAGON II MASTER CONTROLLER MODULE



Global input assignment mode switches

Mute Group Switches/Scene switches

FEATURES

- Group, VCA, Aux and Mute assignment as well as Fader position capable of scene reset control
- Gate and compressor on every input channel
- 4 band fully parametric EQ on every mono input
- Independently assignable high and low pass filters on every input channel
- Stereo or dual mono direct output from every channel
- 8 Stereo subgroups with stereo inject and insert
- 4 mix busses, 2 mono, 2 stereo
- LCR panning with the capability of LCR audio sub-grouping
- 8 mono Aux busses with inject
- 4 stereo Aux busses with stereo inject
- 8 stereo matrix outputs with stereo inject and insert
- 12 stereo line inputs assignable to the stereo mix busses
- 8 stereo auxiliary inputs with mic pre-amps
- Comprehensive monitoring module with input and output split functions
- Standard frame size capable of over 120 assignable inputs

SPECIFICATIONS

- Max Input level- ANY input: 24dBu
- Max Output level ANY output: 28dBu
- Frequency Response: +0dB / –.5dB 10Hz to 30KHz
- Gain Structure: –2dB internal level, +24dB clip point
- Crosstalk: –70dB at 10KHz
- Noise (20KHz bandwidth)
- –132dBm E.I.N. (shorted input)
- –129dBm E.I.N. (150ohm input)
- Residual Output: –90dBm
- Group Out with fader at unity all channels assigned: –80dBm
- Distortion: .008% THD+N @ +4dBu

Physical

- Width: 88 inches, Height: 15.5 inches, Depth 43.4 inches, Weight: 512 lbs.

CONTACT US

For a block diagram, pricing or technical questions please call ATI at 800-642-8063 or email sales@audiotoy.com.