

# V I S I O N

The Vision is the newest addition to D&R's collection of high quality consoles. A progressive sound reinforcement/recording and television Sound console. Designed for the most discriminating live sound and studio engineers. The Vision can fit into many different sound environments.

The D&R design team choose high quality components and manufacturing techniques for the Vision, such as socket mounted Analog Devices active components and ALPS or P&G potentiometers and faders and silver plated switches as well as glass epoxy printed circuit boards (plated on both sides where necessary).

The Vision is available in 3 frame sizes ranging from 19" rack mount (will hold 12 modules) up to a full 44 input version. The Vision can be specified with the standard master module plus any combination of input and group modules. In addition, a deluxe master module is available with extra features.

Due to the many different requirements in live sound TV and recording applications, D&R designed several different types of modules.



*Smart in Solutions*

## FULL FEATURED INPUT MODULES

The **Deluxe Input Module** has a four band sweep able EQ, 8 buss routing, and 8 aux sends. An economical version with 3 band EQ, 4 buss routing, and 4 aux sends is considered to be a **Mono Standard module**. **Stereo deluxe** and economical **Standard Stereo** modules are also available.

All inputs are fully balanced and all outputs are ground compensated balanced. The deluxe modules have 6 segment LED bar graph meters next to the fader to allow visual monitoring of levels.

## DUAL FUNCTION GROUP MODULE

In each Dual Group Module two effects/tape monitor returns are standard. Each return has access to two aux sends as well as level and pan controls. The "sub" switch allows the engineer to use the mixer in several different ways (for both sound reinforcement and recording). Like the input type modules, all inputs are balanced and outputs are ground compensated balanced. The LED bar graph meters conform to international peak-reading standards.

A Deluxe Master Section with extra advantages and features is available. If the standard modules are ordered,

a standard master section is sufficient, however, if deluxe modules are chosen, an add on master section that will accommodate the 8 aux send busses (from the de-luxe modules) is available. This deluxe master section has aux masters 5 through 8, an oscillator section, extra stereo return, a talkback section, and a two high powered headphone outputs.

## USER DEFINABLE JUMPER SETTINGS EQUAL TOTAL CONTROL & FLEXIBILITY.

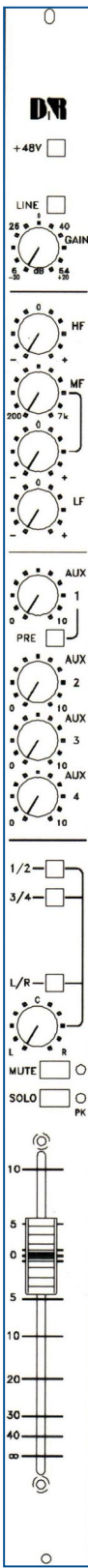
Another feature showing the Vision's flexibility is its ability to interface with most equipment through its use of jumpers to "trim" input/output levels as well as jumpers throughout the aux send electronics.

A welded steel frame is built around the electronics (to withstand the rigors of touring) and provides the shielding required for "high definition" electronics. All connections are gold-plated locking IDC connectors insuring you of reliable trouble-free performances year after year. The Vision is the culmination of 38 years of experience in mixing console design.

Our reputation for exceptionally quiet and transparent sounding consoles is clearly reflected and our dedication to sonic integrity is unsurpassed.



**MONO STANDARD**



48 volt phantom power switch for MIC input. Both MIC and LINE inputs are balanced and handle up to +16dBu (Mic) and +22dBu (line) without input pads. LINE switches between Mic and line inputs.

GAIN controls both Mic and line in- puts.

The three band Equalizer has a warm yet transparent sound.

The HF control has a boost or cut of 16dB and shelves at 12kHz.

The MF (mid frequency) section has a boost or cut of 16dB bell curve and sweeps from 200 Hz to 7 kHz.

The LF section shelves at 60Hz with a boost or cut of 16dB.

Aux 1 is front panel pre/post switchable.

All four Aux sends are user definable between pre and post channel fader via internal jumper settings.

The pre selection can be set pre or post the channel mute circuitry.

Four busses route (in pairs) to the group modules and the L/R mix busses.

The PAN control determines whether the signal goes to the odd and or even groups as well as to the main L/R busses.

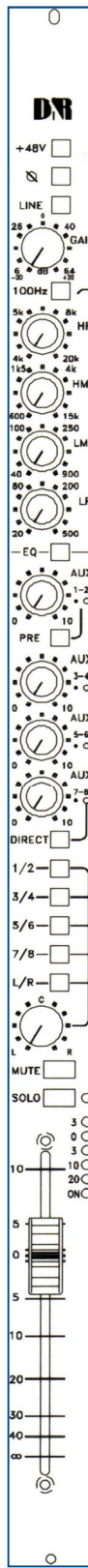
The soft MUTE switch silently mutes the signal.

The SOLO switch allows you to hear a pre-fade signal or post-pan stereo in place signal, dependent upon master status switching.

The two way SOLO LED indicate peaks 4 dB below clipping and when the solo switch is activated.

A smooth feeling K-Alps fader (P&G is optional) with optional faderstart switch completes the channel.

**MONO DELUXE**



48 volt "phantom" power switch for MIC input.

Phase reverse switch (Mic input only).

Both MIC and LINE inputs are balanced.

GAIN controls both Mic and line in- puts.

The Mic input can handle up to +16dBu (+22dBu for line) without input pads.

The high pass filter has a gentle slope of 9dB per octave starting at 100Hz.

The four band Equalizer has a boost or cut of 16dB.

The HF is shelving and sweeps from 4kHz to 20kHz.

The HMF bell curve sweeps from 600Hz to 15kHz.

The LMF bell curve sweeps from 40 Hz to 900 Hz. The LF is shelving and sweeps from 20Hz to 500Hz.

Aux 1 and 2 are front panel pre/post switchable. All 8 aux sends are per pair user definable between pre or post channel via jumper settings.

The pre selection can be set pre or post channel mute circuitry.

The direct switch sends a pre or post fader signal to the direct output either controlled by the fader or Aux 8, which can be changed via user definable jumpers.

Eight busses route (in pairs) to the group modules and the L/R mix busses.

The PAN control pans the signal between the odd and even groups and L/R busses.

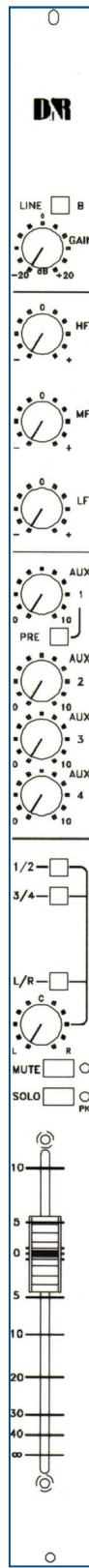
The soft MUTE switch silently mutes the signal.

The SOLO switch gives a pre-fade or post fade stereo in place signal.

The peak reading LED bar graph meter displays pre or post fader signal

A 100mm K-Alps fader (or P&G) with optional faderstart switch.

**STEREO STANDARD**



Both LINE inputs are balanced and LINE "B" can optionally become a stereo R.I.A.A. pre-amp for phono cartridges.

The active GAIN control has a boost or cut of 20dB.

The stereo EQUALIZER is a proven three band design with a boost or cut of 16dB on each band.

The HF (high frequency) control shelves at 12 kHz.

The MF (mid frequency) control has a bell curve with a centre frequency of 1kHz.

The LF (low frequency) control shelves at 60 Hz.

Aux 1 is front panel pre/post switchable

All four aux sends are mono summed sends individually selectable pre or post stereo fader via jumper settings.

The pre fader selection can either be pre or post the mute circuitry selected by internal jumper settings.

Four busses are routed to the group modules and /or to the master Left and Right busses.

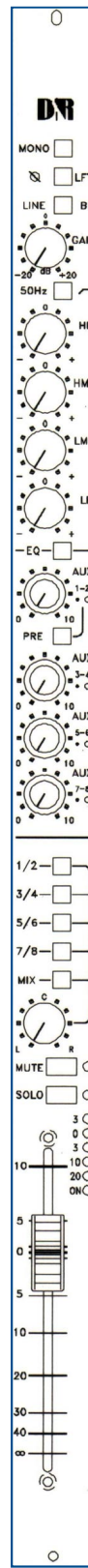
The BALANCE control actively adjusts any imbalances coming from input signals.

The soft MUTE switch is optionally MIDI controlled. The SOLO switch let's you hear a mono summed pre fade signal or a stereo in place post fade signal dependent upon master status settings.

The PEAK LED (which also functions as a SOLO switch indicator), registers the highest level from the left or right input signals 4 dB prior to clipping.

A smooth feeling K-Alps fader (P&G is optional) with optional faderstart switch completes the channel.

**STEREO DELUXE**



The MONO switch sums the left/right input signals. The PHASE switch inverts the two left input signals. Both LINE inputs are balanced.

LINE "B" can optionally become a stereo R.I.A.A. pre-amp for phono cartridges.

The active GAIN control has a boost or cut of 20dB.

The stereo EQUALIZER is a proven four band design with a boost or cut of 16dB on each band.

The HF (high frequency) control shelves at 12kHz.

The HMF (high mid frequency) control has a bell curve with a 5 kHz centre.

The LMF (low mid frequency) control has a bell curve with a 250Hz centre.

The LF (low frequency) control shelves at 60 Hz.

AUX 1 and 2 are front panel pre/post switchable. All four aux sends are mono summed sends individually selectable pre or post stereo fader via jumper settings.

The pre fader selection can either be pre or post the mute circuitry, selected by internal jumper settings.

Eight busses are routed to the group modules and/or the master Left and Right busses.

The BALANCE control actively adjusts any imbalances coming from input signals.

The soft MUTE switch silently mutes the signal.

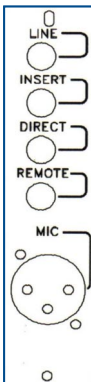
The SOLO switch let's you hear a mono summed pre-fade signal or a stereo in place post fade signal dependent upon master status settings.

The peak reading LED bar graph meter shows the highest level between the left and right signal path.

The LED bar graph meter can be fed post EQ or post fader by user definable internal jumper settings.

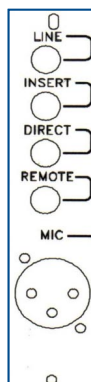
A smooth feeling K-Alps fader (P&G is optional) with optional faderstart switch completes the channel.

**MONO CHANNELS REAR CONNECTOR PANELS.**



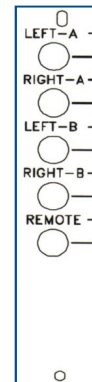
Balanced line input. Insert send/return. Balanced direct output with internal +4dBu or -10 dBv jumper settings fed from post fader or Aux 8. Remote connector for interfacing with optional faderstart function. Electronically balanced Mic input.

**MONO CHANNELS REAR CONNECTOR PANELS.**



Balanced line input. Insert send/return. Balanced direct output with internal +4dBu or -10 dBv jumper settings fed from post fader or Aux 8. Remote connector for interfacing with optional faderstart function. Balanced Mic input.

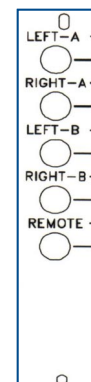
**STEREO CHANNELS REAR CONNECTOR PANELS.**



Balanced LINE A inputs. Balanced LINE B inputs, optional with R.I.A.A. pre-amps.

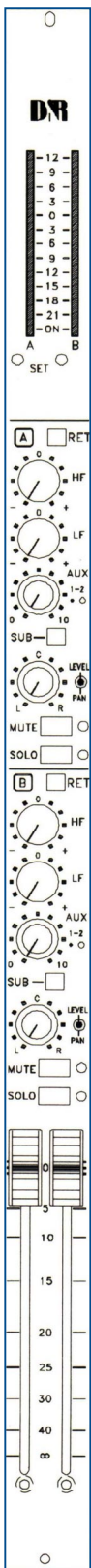
Remote connector for optional faderstart switch.

**STEREO CHANNELS REAR CONNECTOR PANELS.**



Balanced LINE A inputs. Balanced LINE B inputs, optional with R.I.A.A. pre-amps.

Remote connector for optional faderstart switch.



### GROUP MODULE

The peak reading LED bar graph meters follow the return switches or the group outputs which can be changed via user definable jumper settings on the printed circuit board. Both led bar levels are adjustable on the front panel.

The RETURN switch selects the signal coming from the RETURN input (tape/effect) or the group output.

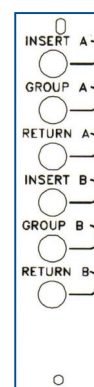
The two band EQ is of the shelving type with a boost or cut of 16dB. Both AUX sends are user definable pre or post monitor level by internal jumper settings. With the SUB switch down, the pan pot receives the fader output instead of the monitor output.

At the same time the monitor section (with depressed RET switch) feeds the return signal into the group mix buss. The soft MUTE switch silently mutes the signal.

The SOLO switch allows you to monitor all signals sent to the monitor section independent of master status settings.

The "B" section is identical to the "A" section.

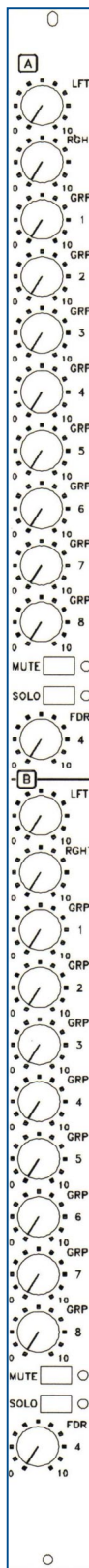
Two 100mm faders feed the balanced (ground compensated) group outputs. Levels are internally selectable between +4dBu or -10dBV.



### GROUP CONNECTORS

Insert send and return for group "A" output. Balanced (ground compensated) output, +4 dBu or -10 dBV. Balanced "A" return +4dBu or -10dBV, internally selected via jumper settings.

"B" in/outputs are identical.



### MATRIX MODULE

The Matrix modules have an external input. Left and Right input controls to feed the main output signal into the Matrix output. Group input controls feed the group output signals individually to the matrix output.

The soft MUTE switch is optionally MIDI controlled.

The SOLO switch allows you to hear the matrix mix sent to the matrix output (pre fader).

The rotary "fader" controls the overall level of the matrix output.

The "B" section is identical to the "A" section.



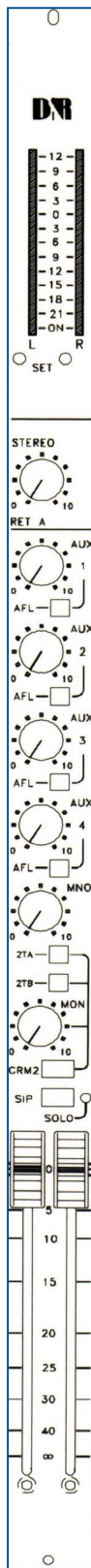
### MATRIX CONNECTORS

Matrix balanced input "A"

Matrix balanced input "B"

Matrix balanced output "A"

Matrix balanced output "B"



### MASTER STANDARD

The master LED bar graph meters follow the monitor section. The monitor section is fed by the main outputs, the two track returns or the solo system.

Both LED bar graph meters are front panel adjustable.

The STEREO return feeds a stereo signal into the main left & right busses.

The Aux masters control the overall level of the aux busses 1 through 4 feeding the balanced (ground compensated) outputs.

The AFL (after fade listen) switches feed the master monitor section and the LED bar graph meters (when activated).

The MONO output is a separate output control fed from the main left & right busses.

The mono output is balanced.

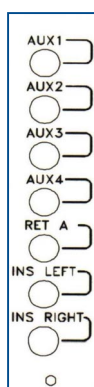
The two track returns can accept -10dBV or +4dBu levels and are user definable jumper settings.

The MONitor pot controls the output level going to the balanced (ground compensated) monitor outputs.

The CRM2 activates a second monitor system. The SIP switch changes the "solo" monitoring status of the channels, either PFL (pre fade listen) or solo in place.

The SOLO led indicates whether a solo /afl switch is activated.

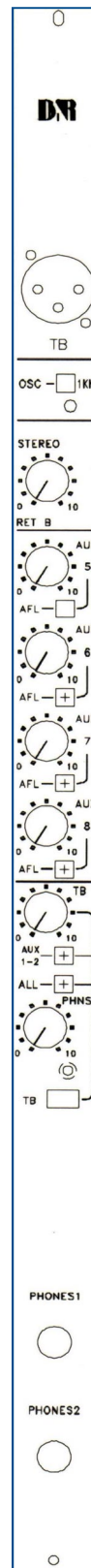
The 100 mm K-Alps faders (P&G optional) feed the balanced left and right main outputs.



### MASTER CONNECTORS

Aux master 1 to 4 outputs are balanced. Stereo return "A" accepts +4dBu or -10dBV levels and are user definable via jumper settings. Master left/right inserts are 0dBu level.

*The Chassis houses the Left & Right & Mono balanced XLR outputs, CRM1 outputs and the 2 Track A & B returns.*



### MASTER DELUXE

The Talkback input connector feeds the aux busses 1 and 2 or all output busses, which is changed with switch settings in the lower module part.

A flexible talkback Mic can be plugged into the TB "XLR" socket.

The oscillator feeds a 1 kHz signal (a second Oscillator signal is optional) to AUX busses 1 and 2 or all output busses, depending upon the same switch settings in the lower part of the module.

The STEREO return feeds a stereo signal into the main left & right busses.

The AUX masters control the overall level of the aux busses 5 through 8 feeding the balanced (grnd compensated) outputs.

The AFL (after fade listen) switches feed the monitor section and the LED bar graph meters when activated.

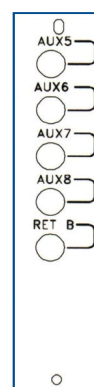
The TALKBACK level adjusts the T.B. Mic signal.

Talkback and oscillator signals can be assigned to the AUX1/2 output busses or all group and left/right mix busses.

A separate Phones output is fed from the monitor source switching in the master.

The momentary TALKBACK switch activates the talkback circuit and dims the monitor outputs at the same time.

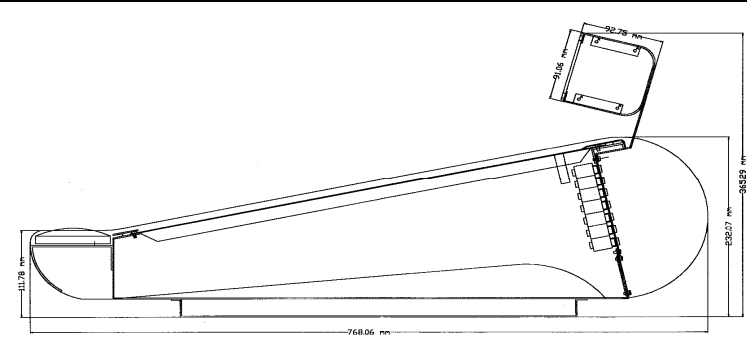
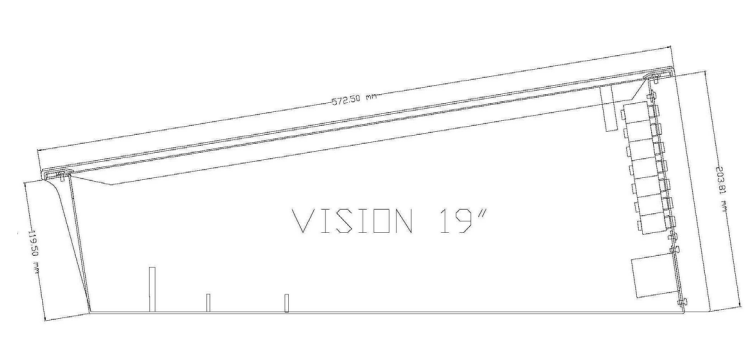

Two PHONES sockets are wired in parallel to feed 600 Ohm headphones.



### MASTER CONNECTORS

Aux master 5 through 8 outputs are balanced (ground compensated).

Stereo return "B" can accept +4dBu or -10dBV levels and can be changed via jumper settings on the PCB.

|                                       |   |   |
|---------------------------------------|---|---|
| <b>SPECIFICATIONS</b>                 |   |   |
| <b>INPUTS:</b>                        | Mic input, balanced, RF suppressed, 2 kOhm.<br>C.M.R.R. at 50 Hz, -70 dB.<br>Sensitivity: -80 dBu max for +4 dBu output.<br>Noise mic: <-129.0 dBu,(A-weighted) 1500hm  | Line inputs: bal. 10kOhm, -20dB to +20dB.<br>Return inputs: +4 dBu bal./-10dBv unbalanced.<br>Grp./chan. inserts: 10kOhm/47 Ohm unbalanced.<br>0dBu.<br>Stereo machines:+4dBu, -10dBv, unbalanced.  |
| <b>OUTPUTS:</b>                       | Left/Right/Mono outputs, +4dBu bal /-10dBv bal. Imp< 50 Ohms (A-weighted). Aux outputs, +4dBu balanced (ground compensated), Imp< 50 Ohms<br>All other outputs: +4dBu / -10dBu bal/gnd comp, Imp< 50 Ohms   | Noise master fader down: -102dB<br>Noise 16 channels routed: -89dB (A-weighted).<br>Noise 24 channels routed: -87dB (A-weighted).   |
| <b>EQUALISATION:</b>                  | High pass filter, -3dB at 50Hz / 100Hz.<br>H.F. +/- 16dB from 4kHz to 20kHz, shelving.<br>L.F. +/- 16dB from 20Hz to 500Hz, shelving.   | Bell curve mids:<br>H.M.F. +/-16dB from 600Hz to 15kHz belt, Q1.5.<br>L.M.F. +/-15dB from 40Hz to 900 Hz bell, Q1.5   |
| <b>OVERALL:</b>                       | Nominal internal operating level 0dBu (0.775 V).<br>Freq. response, any input to any output 20Hz - 20kHz, -0.5dB.10Hz - 100kHz, -3dB.<br>Total harmonic distortion: Mic. in-dir. out: 1 kHz: 0.015%, 10kHz: 0.025%.<br>Temperature range: 5 to 40 Deg. Celsius  | Maximum output: +26dBu into 600 Ohm bal, +22dBu unbalanced/ground compensated.<br>Maximum headroom: not less than +22dB anywhere in the console.  |
| <b>CROSSTALK:</b>                     | Mic to line: > 100 dB at 1 kHz.<br>Channel mute: > 90 dB at 1kHz.<br>Pan-pot isolation: > 75dB at 1kHz.   | Channel routing: > 90dB at 1kHz.<br>Channel fader kilt: > 95dB at 1 kHz.<br>Aux send kill: > 90dB at 1 kHz.   |
| <b>DIMENSIONS:</b>                    | Vision 19": 483x573x212mm / 19"x22.6"x8.3". Weight: 25kg<br>Vision 38: 1320x768x232 mm / 52"x30.2"x9.1". Weight: 80kg   | Vision 46: 1568x768x232 mm / 62"x30.2"x9.1".<br>Weight: 90kg  |
| <b>OPTIONS:</b>                       | Conductive plastic faders P&G<br>R.I.A.A. pre-amp module for stereo inputs.<br>Line inputs on XLR via Break out panels.   | Two frequency oscillator. 1kHz/10kHz<br>VU meter bridge<br>19" Redundant Power supply, 230V± 5 %, 50 Hz   |
| <b>SIDEVIEW OF DESKTOP VERSION:</b>   |  A technical side-view drawing of the D&R Vision 19" desktop console. It shows the depth of the unit, the placement of the faders, and various dimensions in millimeters. Key dimensions include a total depth of 768.06 mm, a top surface width of 483 mm, and a height of 212 mm. A detail view shows a fader with a 92.78 mm travel and a 10.16 mm width. | <b>VISION FRAME CONFIGURATIONS</b><br><br>19" Rack accepts: 14 modules (12- 2, 8-8-2)<br><br>Frame 38 accepts 38 modules, 32-8-2, 34-4-2, 36-2<br><br>Frame 46 accepts 46 modules, 40-8-2, 42-4-2, 44-2<br><br>(All desktop frames include 2 blanks, no masters)  |
| <b>SIDE VIEW OF 19" RACK VERSION:</b> |  A technical side-view drawing of the D&R Vision 19" rack version console. The drawing shows the console's profile and its mounting rails. Dimensions include a total height of 181.00 mm, a top surface width of 483 mm, and a depth of 181.00 mm. The text "VISION 19" is printed on the drawing.                                     |  The logo for D&R, consisting of the letters 'D' and 'R' in a stylized, blue, serif font. Below the logo is the tagline "Smart in Solutions" in a blue, cursive script font. |



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