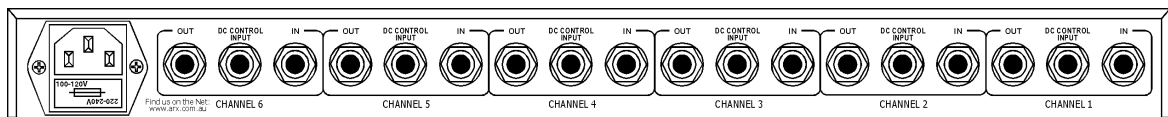
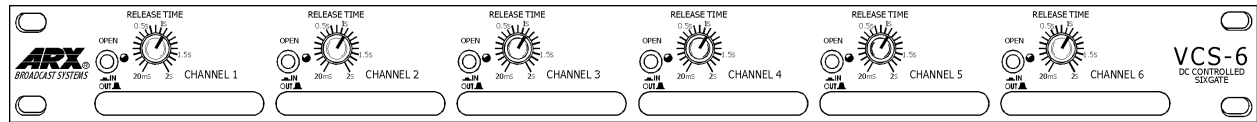


VCS-6™



SIX CHANNEL DC CONTROLLED NOISE GATE/AUDIO SWITCH



The sheer amount of audio channels required for today's broadcast environment requires multiple remote-controlled, noiseless signal switching on a large scale.

So, in order to give today's broadcast engineers more control in less rack space, ARX has created the VCS-6; Six DC Voltage Controllable Audio Switch/Noise Gates in one compact, all steel 1 RU package.

Front panel controls for each gate consist of a Release Control, plus Red and Green LED displays to indicate Gate Open or Closed status, and an IN/OUT hardwire bypass switch.

In addition to this, each channel has a blank 'scribble-strip' panel to write on for easy confirmation of gate assigns. No more pieces of masking tape stuck everywhere!

Ultra Low Noise

Internally, each gate has proprietary ARX ultra low noise opto-isolated circuitry with program dependent Attack time, which tracks the incoming signal to automatically determine optimum gate response.

DC Control

The VCS-6 features remote DC controllable Audio switching over the

industry standard +5 to 12V DC range.

Applying +5 to 12V DC to the DC Control Input Jack turns the audio signal to pass through unattenuated. When there is no DC voltage present at the DC Control Input Jack the audio signal is attenuated by greater than 85 dB (effectively switched OFF).

Balanced Inputs and Outputs

The rear panel features true differential Balanced inputs and outputs for each gate, on insulated TRS jack connectors.

Universal AC Power

AC power range on the VCS-6 is a universal 100 to 120V or 220 to 240V, and is connected to the unit via a standard 3 pin IEC connector, with built-in fuse and voltage switch.

The VCS-6's unique combination of High Density design, intuitive control and clean uncluttered layout make it a truly useful audio tool for all Audio Switching applications.

Features

- Unique High Density design puts maximum number of gates in minimum rack space
- Six independent noise gates in one rack unit
- Balanced Inputs and Outputs
- Fast, low noise circuitry
- DC control of individual channels
- Hardwire Bypass switch on each gate
- Intuitive, 'user friendly' layout
- Flawless performance in any audio environment
- Security cover available

VCS-6 Specifications

Input Impedance
Balanced 20 Kohms
Unbalanced 10 Kohms

Input Headroom
+ 22 dB

CMRR
>60 dB, 20 Hz—20 KHz

Output Impedance
Balanced 300 ohms
Unbalanced 150 ohms

Output Level (Max)
+ 20 dB

Frequency Response
20Hz—20KHz ± 0.2 dB

Signal to Noise ratio
Gate Closed:

- 95 dB Unweighted
- 105 dB 'A' weighted

Gate Open:

- 93.5 dB Unweighted
- 98dB 'A' weighted

DC Control Voltage
+5 to +12V DC switch closed, signal passes through
0V DC switch open, signal attenuated by >-85dB

DC Control Impedance
10 Kohm

Switch Type
Opto controlled switch, noise/transient free

Distortion
.004% THD @ 0dB, 1KHz

Dynamic Range
125 dB

Maximum Attenuation
>-85dB

Attack Time
Program dependent

Release Time
User variable

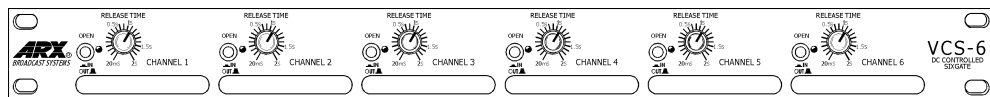
Power Requirements
100/120 or 220/240 V AC

Weight
5 lbs/2.2 Kg

Dimensions
19"W x 1 $\frac{3}{4}$ "H x 6"D
482 x 44 x 155mm

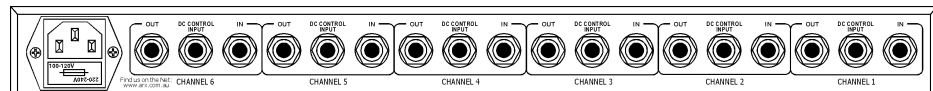
Input/Output Connector type
Balanced Jack

DC Control Connector
TRS Jack



FRONT PANEL

- Individual Release control for each channel
- 'Scribble-strip' for labelling Gate assigns
- Hardwire Gate bypass IN/OUT switch
- Open/Closed Gate status LEDs



REAR PANEL

- Balanced Inputs *and* Outputs, on TRS jack connectors.
Tip +, Ring -, Sleeve Ground
- DC Control Input TRS connector on each channel. Tip +V DC, Sleeve Ground
- AC input connector, with voltage switch and fuse. RISK OF FIRE-Replace fuse with correct value only

ARCHITECTS' AND ENGINEERS' SPECIFICATIONS

The audio switch/noise gate shall be a six channel unit in a steel chassis six inches deep and one rack unit high.

Each channel shall be independent of the others, and shall have a variable control for Release. Attack times shall be program dependent.

Each channel shall also have a hardwire Bypass switch on the front panel, and two LED indicators to show gate open or closed status.

The unit shall have electronically Balanced inputs and outputs, on TipRingSleeve (TRS) jack connectors (Tip +, Ring -, Sleeve Ground, with an Input impedance of 20 Kohms (10 Kohms unbalanced).

The Input headroom shall be + 20dB, and the frequency response shall be 20 Hz to 20 KHz, ± 0.2 dB.

The Output impedance shall be 300 ohms (150 unbalanced), and the maximum Output level shall be + 20dB.

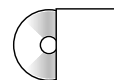
The Signal to Noise ratio shall be -105dB 'A' weighted (-95dB unweighted) when the gate is closed; -98dB (-93.5 unweighted) when it is open.

The DC Control inputs shall be TRS jack connectors wired Tip: + V DC, Sleeve: Ground, and have an impedance of 10 Kohms.

Total Harmonic Distortion shall be .004% @ 0dB, 1 KHz, and the unit shall have a dynamic range of 115dB.

AC Power shall be supplied via a removable mains cable, connecting to a 3 pin IEC connector with an integral fuse and voltage change switch on the unit's rear panel.

The noise gate shall be the ARX VCS-6.



Specifications also available on CD ROM



Our policy is one of continuous improvement, and therefore designs may change without notice. However, unless otherwise stated, specifications will always equal or exceed those previously given.

ARX Systems Pty Ltd, Australia; Phone: +61-3 9555 7859 Fax: +61-3 9555 6747