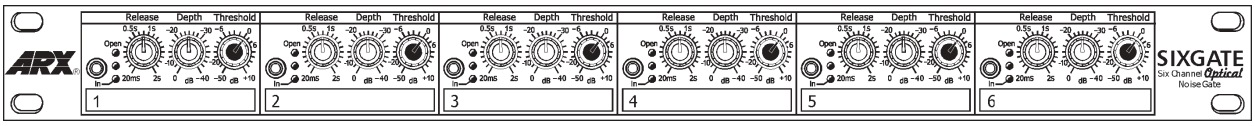
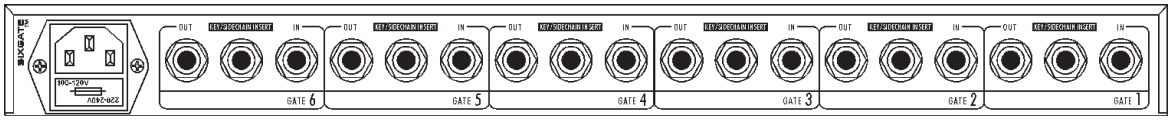
SIXGATE™

www.arx.com.au ®

Six Channel Optical Noisegate with Sidechain Insert/Key Input

Six individual Noise gates in a Compact 1RU package





Hand made in Australia

The sheer amount of effects and signal processors required for today's standards of audio production puts a great strain on the available space in equipment racks, both in the studio and on the road.

So, in order to give engineers more control in less space, we've created the ARX Sixgate; ***Six*** full function noise gates neatly housed in a compact, all steel 1 RU package, without sacrificing features or quality.

Why Six gates?

Research shows that the majority of noise gates get used on drum kits, which necessitates using typically 5 to 6 gate channels. Compare this to the two or maybe 4 channels that most other units have, and you'll see the reason for the Sixgate's success.

And, by using a minimalist approach to drum gates, the ARX Sixgate has enough gates left over for backing vocals and other instruments.

Industry Standard controls

Front panel controls for each gate consist of the 'Industry Standard' controls for Release, Depth and Threshold, plus LED displays to indicate Gate Open or Closed status, and an IN/OUT hardwire bypass switch with status LED.

In addition to this, each gate has a blank 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-coupler circuitry with program dependent Attack time, which tracks the incoming signal to automatically determine optimum gate response.

Balanced Inputs and Outputs

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

Each gate channel also has Individual Key Inputs/Sidechain access insert points which can be used either for gate control by an external signal, or for frequency sensitive gating (when used in conjuction with an external equalizer such as the ARX EQ260).

Universal AC Power

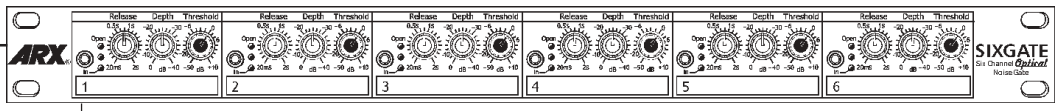
AC power range on the Sixgate is a universal 100 to 120V or 220 to 240V, and is connected to the unit via a standard 3 pin IEC connector, with built-in fuse and voltage switch.

The Sixgate's unique combination of High Density design, intuitive 'user friendly' controls, and clean uncluttered layout make it a truly useful audio tool for all applications.

Features

- ☑ **Unique High Density design puts maximum number of gates in 1 RU**
- ☑ **Balanced Inputs and Outputs**
- ☑ **Fast, opto-coupler circuitry**
- ☑ **Sidechain/Key Input points on each channel**
- ☑ **'Industry Standard' controls**
- ☑ **Hardwire By-pass switch on each gate**
- ☑ **Intuitive, 'user friendly' layout**
- ☑ **Flawless performance in any audio environment**
- ☑ **Security cover available**

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 ±0.2dB

Signal to Noise ratio

Gate Closed:
-95 dB Unweighted
-105 dB 'A' weighted

Gate Open, Depth Minimum:
-93.5 dB Unweighted
-98dB 'A' weighted

Distortion
.004% THD @ 0dB,1KHz

Dynamic Range
125 dB

Attack Time
Program dependent

Release Time
User variable

Sidechain Insert Impedance
10 Kohm

Power Requirements
100/120 V AC
220/240 V AC

Weight
5 lbs/2.2 Kg

Dimensions
19"W x 1¾"H x 6"D
482 x 44 x 155mm

Input Connector type
Balanced Jack

Output Connector type
Balanced Jack

Sidechain Insert Connector
TRS Jack

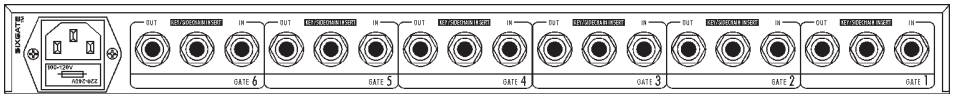
www.arx.com.au ®

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.

CE N1819

Front Panel

- Individual Release, Depth and Threshold controls
- Hardwire Gate bypass IN/OUT switch
- Open, Closed and Gate In status LEDs
- Marker panel for labelling Gate assigns



Rear Panel

- Balanced Inputs *and* Outputs, on TRS jack connectors. Wired Tip +, Ring –, Sleeve Ground
- Sidechain Insert/Key Input TRS connector on each channel. Wired Tip IN, Ring OUT, Sleeve Ground
- AC input connector, with voltage switch and fuse. RISK OF FIRE-Replace fuse with correct value only

ARX Systems are based in Melbourne, Australia, where all ARX Products are assembled and tested in our 'state-of-the-art' manufacturing facility

For over 20 years ARX has designed, manufactured and supported Audio Products for Professional users and applications worldwide

Architectural Specifications

The 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 have variable controls for Release, Depth and Threshold. Attack times shall be program dependent.

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

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, ±0.2dB.

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 and the Depth control is set at minimum.

The Sidechain insert points shall be TRS jack connectors wired Tip: In, Ring: Out, and Sleeve: Ground, and have an impedance of 10 Kohms. These points shall also function as Key Inputs with the insertion of an unbalanced jack connector.

Total Harmonic Distortion shall be .004% @ 0dB, 1 KHz, and the unit shall have a dynamic range of 108dB.

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 Sixgate.

Specifications available on CD ROM.
Latest updates available at:
www.arx.com.au

ARX Systems Pty Ltd; PO Box 15, Moorabbin, Victoria 3189, Australia
Phone: 03 9555 7859 Fax: 03 9555 6747 International Fax +61 3 9555 6747
Email: info@arx.com.au Internet: www.arx.com.au