

Silencer™

The Ultimate Noise Gate

CRYSTAL LINE™
Quartz – Competition Series



- Gates speakers instead of low level signals
- Eliminates all hiss and system noise – even amplifier artifacts – when no signal is present
- Eliminates turn on and turn off clicks & thumps
- Uncompromising High Fidelity

The Silencer Noise Gate is the first and only noise gating system designed exclusively for car audio with speaker level gating. Composed of at least one master controller and separate stereo gate slaves, the Silencer noise gate was designed to offer extreme levels of high performance in a wide variety of configurations.

The Silencer master controller can power up to 16 stereo slaves for up to 32 independent channels without expansion. An unlimited number of channels is possible with optional expansion capabilities. While each gate slave channel can handle more than 10,000 watts peak, a fully loaded system, without expansion, is able to handle 320,000 watts peak. When expanded, there is no limit to the power handling capability of the silencer system.

Frequency response, channel separation, and signal to noise ratio of the gate slaves are better than many instruments can measure. Theoretically, the Silencer gate achieves a 206db S/N ratio, a channel separation of 142db at 1kHz, and a frequency response of +/- .001db DC-50kHz. This incredible performance is possible because of the enhancing characteristics of low speaker impedance and the extremely low amplifier output impedance typical of state of the art audio power amplifiers.

The controller is also unique in respecting the psycho-acoustics of hearing at low levels. With controls designed to correspond with the time domain and frequency response characteristics of human ear sensitivity, it is able to operate without spitting or pumping yet respond instantaneously to signal presence. Timing controls to establish arbitrarily long time guard bands between system turn on and speaker enabling are also provided to eliminate any turn and turn off noises.

The controller inputs include the ground loop breaking and interference cancelling Crystal-Line input circuit to insure the truest presentation of the signal for extremely stable gating action without affecting the source signal in any way.

Innovations Protected by Pat. Nos. 5,664,022 & 5,386,148

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