

Optogate Model PB-05

The Optogate PB-05 is an automatic microphone gate unit based on the latest optical technology. The PB-05 plugs between the microphone body and cable connector. Equipped with an infrared sensor, the PB-05 senses if someone is in front of the microphone and switches on the microphone.

The microphone is then switched off automatically if nobody is in front of it. A red status LED indicates if the microphone is switched on. The PB-05 works with 48 Volt phantom power to eliminate batteries and AC adaptors. Condenser microphones can also be used in connection with the PB-05.

Applications:

The PB-05 can be used for lead vocal mics, acoustical instruments, talk back mics and background vocal mics. The PB-05 is an easy, automatic solution for most common problems in live applications.

By eliminating unwanted background noise of other instruments into unused microphones on stage, the clarity of the mix and the dynamics will be increased due to less phase cancellation and background noise. It reduces the possibility of feedback from unused mics. Just plug & Play...

Specifications:

Physical Dimensions:	69mm length x 35mm height x 21mm width
Connectors:	XLR 3-pin (1 = gnd, 2 = plus, 3 = minus)
Case construction:	Aircraft-aluminium, black galvanized
Distance:	Adjustable between 15 - 120 cm (depending of the type of reflection surface)
Angle:	+ / - 10 degrees
Switching noise:	Immeasurable
Frequency response:	0 Hz - 22 kHz, - 3 dB in connection with 150 Ohm microphone impedance
Signal noise ratio:	-88 dB with 100mV rms input and 150 Ohm mic
Distortion:	< 0,05 % with 100mV signal
Delaytime Mic on:	< 0,2 Seconds
Delaytime Mic off:	About 1 second (Other times on request)
Attenuation "mic on":	0 dB
Attenuation "mic off":	42 dB in connection with 150 Ohm microphone impedance
Usuable mic. types:	All type of dynamic - and phantom powered mics. up to 10 mA current consumption
Maximum input level:	3 dB (1.1V)
Operating temperature:	0 - 55 degrees Celsius
Background light range:	0 - 20000 Lux daylight and 0 - 12000 Lux electric bulblight
Distance measurement:	Active infrared reflection principle with 3 bit code
Power:	48 V Phantompower (passes phantompower to the microphone)
Current consumption:	Ca. 3.7 mA

