

Sound SDK contains various sound effects and can be easily implemented to Windows applications, which has already been adopted by several audio device manufacturers with a high reputation.

## **SDK Forms**

DigiOn offers Sound SDK as static link library or DirectX Plugin. Header and library files, sample programs, and documentations are provided for both forms.

## Sample SDK

You can download "Level Control" effect SDK as a sample.



The download module consists of header files for static link library and DirectX PlugIn, library files, sample programs, and documentations. The interface is consistent to all effects. Please try the sample for your reference.

# Types of Effects

Effect		Description	Note
Control audio volume	Level	Controls audio volume.	Free Download
	Compressor	Turns down louder sound without affecting lower sound.	
	Auto level control	Equalizes loudness of sound source.	
	10 band graphic EQ	Strengthens or weakens specified 10 pitches.	
	20 band graphic EQ	Strengthens or weakens specified 20 pitches.	
	Parametric EQ	Strengthens or weakens pitches finely divided into a few thousand.	
	Filter	Cuts high tone sound only or low tone sound only.	
	Phase inversion	Inverts phases of specific channels.	
Change tone	Phaser	Creates a sweeping effect by oscillating sound phase at intervals.	



#### HEADQUARTERS

6F RKB Broadcasting Building 2-3-8 Momochihama, Sawara-ku Fukuoka-shi, Fukuoka 814-0001 JAPAN

### BRANCH OFFICE

15F Pacific Century Place Marunouchi 1-11-1 Marunouchi, Chiyoda-ku, Tokyo 100-6215 JAPAN

# Effect SDK

	Chorus	Creates a chorus effect.	
	Voice Conversion	Makes human voice sound like a robot.	
	Enhancer	Makes a sound expansive.	
	Pitch shift	Changes the pitch of a sound without affecting its duration.	Uses MKL.
	Time stretch	Changes the duration of an audio signal without affecting its pitch.	Uses MKL.
Remove noise	Noise reduction-hiss noise	Removes high frequency noise present on analogue magnetic tape recordings.	
	Noise reduction-hum noise	Removes noise produced by machinery in operation.	
	Noise reduction-crackle noise	Removes crackle noise present on analogue record recordings.	
	Noise gate	Removes background noise present on recordings.	
	Noise reduction by pattern analysis	Removes noise in a pattern produced by air conditioner, projector, etc.	Uses MKL.
Convert channel	Mono > Stereo conversion	Converts mono to stereo.	
	Stereo > Mono conversion	Converts stereo to mono.	
	5.1ch > Stereo conversion	Down mixes 5.1ch to stereo.	
Add reverb	Delay	Creates a delay effect.	
	Reverb	Creates a reverb effect.	
	Delay matrix	Creates a various delay effects.	
Others	Vocal cancel	Removes vocal from a tune.	
	BPM detection	Detects beats per minute.	
		1	

MKL : Math Kernel Library Library for grithmatic appretions developed

Library for arithmetic operations developed by Intel. Required Intel modules will be provided when effect libraries are delivered (Free of charge.)



## HEADQUARTERS

6F RKB Broadcasting Building 2-3-8 Momochihama, Sawara-ku Fukuoka-shi, Fukuoka 814-0001 JAPAN

#### **BRANCH OFFICE**

15F Pacific Century Place Marunouchi 1-11-1 Marunouchi, Chiyoda-ku, Tokyo 100-6215 JAPAN