

DIGITAL REVERB & MULTI EFFECTS OPERATION MANUAL

Introduction

Thank you for selecting the ZOOM RFX-1000 (hereafter simply called the "RFX-1000"). The RFX-1000 is a sophisticated digital reverb and multi-effect processor with the following features and functions.

• 33 immediately usable effects

The RFX-1000 comes with a full complement of preset effects (11 effects x 3 banks). Right out of the box, the unit is ready to create great sound. The REVERB bank in particular provides a wide spread and natural sounding ambience that meets even demanding professional standards.

Built-in professional quality reverb

The reverb effects alone allow 121 different settings. The convincing sound stage created by the RFX-1000 far surpasses anything else available in this class.

Innovative choices

Lo-Fi EFX purposely degrades sound quality for special effect. RESONANCE processes the input signal with sophisticated filtering. MIC SIMULATOR produces condenser mic sound from a dynamic microphone. These and various other effects are great for recording and give full scope to your creativity.

Attractive mixdown effects

Mixdown effects can be used effectively to tailor the overall mood of a song when performing mixdown (mixing multiple tracks onto two final stereo tracks) or mastering (fine-tuning the sound and level of a final 2-track mix).

Intuitive editing controls

Convenient knobs on the front panel let you directly adjust items such as the mixing ratio of original sound and effect sound. Editing effect parameters on the fly is also easy and straightforward. This allows quick fine-tuning for optimum sound.

MIC IN jack

The dedicated microphone jack on the front panel comes in handy for creating vocal effects without having to make cumbersome connections in the rear. Controlling the VOCODER effect is a snap thanks to this feature.

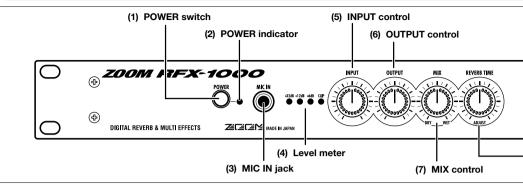
Please take the time to read this manual carefully so as to get the most out of your RFX-1000 and to ensure optimum performance and reliability. Retain this manual, the warranty card and all other documentation for future reference.

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Controls and Functions

Front Panel



(1) POWER switch

Serves to turn the unit on and off.

(2) POWER indicator

When the RFX-1000 is on, this LED indicator is lit in green. When the foot switch FS01 (option) was used to switch the effects off, the indicator flashes red.

(3) MIC IN jack

A dynamic microphone with an output impedance of about 600 ohms can be connected here. Normally the input signal from this jack is mixed with the signal from the rear-panel INPUT jacks. When the VOCODER effect is selected, the mic input signal serves for controlling the effect. You can use your voice to alter the sound character and the envelope (volume change curve).

Note: When plugging or unplugging a microphone here, noise may occur. Be sure to turn down the INPUT control (5) first.

(4) Level meter

These indicators show the signal input level.

(5) INPUT control

Serves to adjust the signal from the INPUT jacks and the MIC IN jack.

(6) OUTPUT control

Serves to adjust the level of the signal supplied at the OUTPUT jacks.

(7) MIX control

Serves to adjust the balance between original sound (DRY) and effect sound (WET). When the control is turned fully counterclockwise, only the original sound is output. When the control is turned fully clockwise, only the effect sound is output.



(1) BYPASS jack

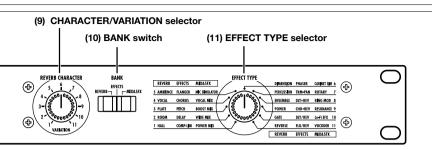
Serves for connection of the foot switch FS01 (option) for switching effects on and off.

(2) OUTPUT jacks

Connect these jacks to the recorder or playback system.

(3) INPUT jacks

Connect a line-level source, such as an instrument or the send output of a mixer, to these jacks. If a plug is inserted only in the L/MONO jack, the signal from this plug will be supplied to both channels. A highimpedance source such as an electric guitar should be routed through a preamplifier or a guitar effect first.



(8) REVERB TIME/ADJUST control

(8) REVERB TIME/ADJUST control

Serves to adjust an effect parameter of the currently selected effect.

(9) CHARACTER/VARIATION selector

Serves to choose one of 11 character settings for the currently selected effect, or to adjust an effect parameter.

(10) BANK switch

Serves to select the effect bank (group of effects). The following three effect banks are available.

• REVERB bank

Contains various reverb effects.

• EFFECTS bank

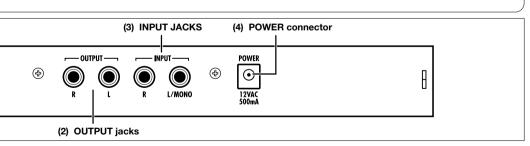
Contains single effects for instruments and voice, and combined effects.

MIX&SFX bank

Contains special effects and effects particularly suited for mixdown (mixing multiple tracks onto two final stereo tracks).

(11) EFFECT TYPE selector

Serves to choose an effect from the currently selected bank.



(4) POWER connector

The supplied AC adapter is to be connected here for powering the unit.

Rack Mounting

The RFX-1000 is compatible with international 19-inch rack standards (EIA, DIN). Because the unit has been designed for rack installation, it is preferable to operate the unit in this way, rather than simply placing it on a table or similar. Align the four screw holes with the rack screw holes and securely fasten the unit to the rack with screws.



 The RFX-1000 uses a metal frame. making the unit heavier than it might seem at first glance. While installing the unit in a rack, carefully support the weight of the unit until all screws are securely tightened. Otherwise the unit may drop, possibly causing injury to persons or damage to itself or to other equipment.

 Do not directly stack the unit on top of other equipment. Otherwise heat may

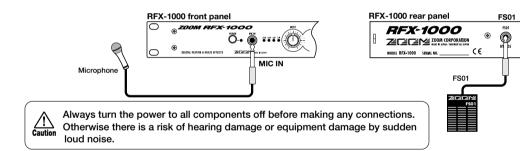
lead to a fire risk or cause performance degradation.

- Before installation, always unplug any connecting cables and the AC adapter cable. Otherwise the equipment or the cables may be damaged.
- Make sure that the rack in which the unit is installed is placed on a firm, solid surface, so that it cannot shake or topple over. Otherwise there is a risk of injury to persons or damage to the unit or to other equipment.

Getting Connected

Basic Connections

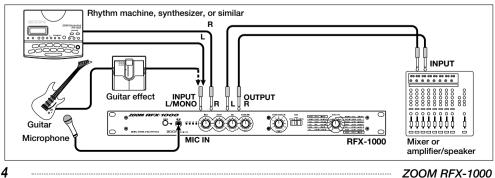
RFX-1000 is connected to an electronic instrument, microphone, and mixer or other audio device

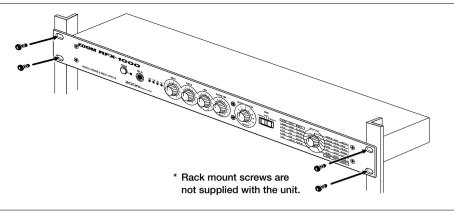


Insert Connection

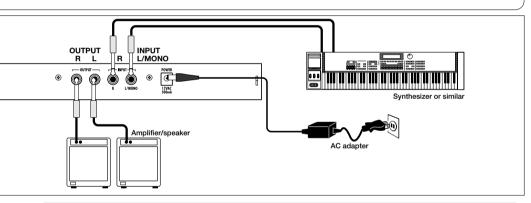
This is an example for inserting the RFX-1000 between the sound source and a playback system or multi-track recorder (MTR). A stereo source should be connected to the INPUT L/MONO and R jacks. A mono source should be connected to the L/MONO jack only.

In this example, the signal from the mic or the instrument is effect processed by the RFX-1000 and then sent to the playback system or MTR. The balance between original sound and effect sound is adjusted at the RFX-1000.





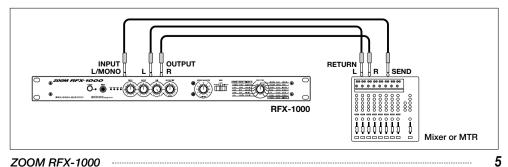
Getting Connected



Send/Return Connection

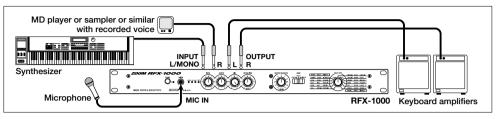
This is an example for connecting the RFX-1000 to the send/return jacks of a mixer or multi-track recorder. Connect the send jack of the mixer or MTR to the INPUT L/MONO jack of the RFX-1000, and connect the OUTPUT L/R jacks of the RFX-1000 to the return jacks (or the stereo line input jacks) of the mixer or MTR.

In this configuration, the RFX-1000 should be set so that it outputs only the effect sound, and the balance between original sound and effect sound should be adjusted at the mixer or multi-track recorder. Supplying the send signal to the RFX-1000 in stereo is also possible.



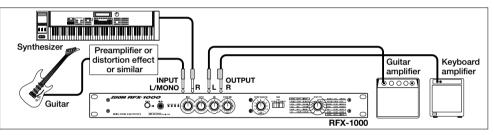
Using the VOCODER Effect

This is a connection example for using the VOCODER effect from the MIX&SFX bank. Connect a dynamic microphone to the front-panel MIC IN jack on the RFX-1000. Connect a synthesizer or other instrument to the rear-panel INPUT L/MONO jack. You can then use the mic to vary the envelope (volume change curve) and the sound character of the VOCODER effect. Instead of the mic, it is also possible to use the right- channel signal for controlling the effect. In this case, the signal supplied to the INPUT L/MONO jack is controlled by the signal supplied to the INPUT R jack.



Using Two Effects in Parallel

The RFX-1000 allows using two effects at the same time (in parallel). This is possible with effects from the EFFECTS bank which have a double name separated with a slash ("/"). The following illustration shows a connection example for using two effects independently in the left and right channel.



Trying Out the Effects

1. Verify that the AC adapter, sound source, and playback system are correctly connected to the RFX-1000.

The INPUT control and OUTPUT control of the RFX-1000 as well as the volume control of the playback system should be set to minimum.

- 2. Turn on the system in the following order: sound source → RFX-1000 → playback system.
- 3. While playing the sound source, turn up the INPUT control of the RFX-1000 to adjust the input level.



To minimize noise and distortion, the INPUT control should be set as high as possible without causing the CLIP LED to light.

 Adjust the OUTPUT control and the volume control of the playback equipment to obtain a suitable playback volume.



5. Use the BANK switch and the EFFECT TYPE selector to select the desired effect.

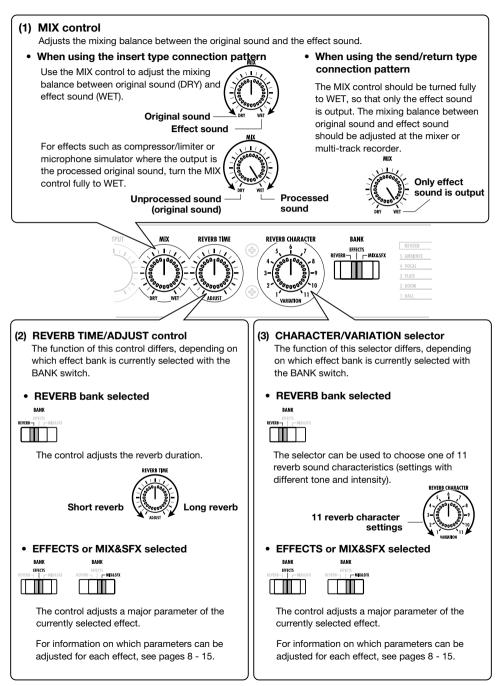
Depending on the position of the BANK switch, the available effects are as shown below.

			,			
	F		EFFECT TYPE	7	\neg	Ļ
REVERB	EFFECTS	MIX&SFX		DIMENSION	PHASER	CABINET SIM 6
5 AMBIENCE	FLANGER	MIC SIMULATO		PERCUSSION	TRM-PAN	ROTARY 7
4 VOCAL	CHORUS	VOCAL MIX	000 000	ENSEMBLE	DLY+REV	RING MOD 8
3 PLATE	PITCH	BOOST MIX	(ğ ğ)•	POWER	CHO+REV	RESONANCE 9
2 ROOM	DELAY	WIDE MIX	• 0000 00000 •	GATE	DLY/REV	Lo-FiEFX 10
1 HALL	COMP-LIM	POWER MEX	∇	REVERSE	FLG/REV	VOCODER 11
1	1	1		REVERB	EFFECTS	MIX&SFX
	FFFFCTS		Select effect w	ith		
REVERB-		X&SFX	EFFECT TYPE	select	or	
\square			ect bank with NK switch			
			ZO	OM F	RFX	-1000

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Changing the Sound of an Effect

The following controls are available for changing the sound character and intensity of the preset effects of the RFX-1000 and for adjusting the balance between original sound and effect sound.



RFX-1000 Effects

This section lists all the effects available in the RFX- 1000 and describes the character or parameter variations that are possible.

Possible. Effects suitable for a send/return connection are marked with the S/R symbol.

• REVERB Bank

This bank contains a variety of reverb effects. For effects 1 - 9, the CHARACTER control can be used to select one of eleven character variations.

1.	1. HALL These effects simulate the reverb in various types of medium to large size buildings.				
		CHARACTER	REVERB TIME	Recommended setting	
1	Large Hall	Simulates a large concert hall.		O	
2	Bright Hall	Simulates a medium-size hall with strong, bright reverb.		Ø	
3	Recital Hall	Simulates a small hall.	Reverb Time Sets the reverb duration.	Ø	
4	Municipal	Simulates a fairly large municipal style hall.		Ô	
5	Wood Hall	Simulates a medium-size hall with predominantly wooden interior.		Ø	
6	Cathedral	Simulates a large cathedral.		Ø	
7	Medconcert	Simulates a medium-size concert hall.		Ô	
8	Strings Hall	Simulates a concert hall designed for classical music.		Ø	
9	Castle Hall	Simulates a medieval castle.		Ô	
10	Small Hall	Simulates a small hall with warm sound character.		Ô	
11	Gymnasium	Simulates a gymnasium.		Ø	
2	ROOM	These effects simulate the reverb in various typ	es of interior spac	es, ↓↑ S/R	
		ranging from small rooms to large clubs.		Recommended	
	The Observation	CHARACTER	REVERD IIME	setting	
1	Tile Chamber	Simulates the acoustics of a tiled room.		<u>O</u>	
2	Warm Room	character. Simulates the acoustics of a fairly large room made	-	Q	
3	Big Wooden	of wood.		Õ	
4	Meeting Room	Simulates the acoustics of a conference room.		Q	
5	Large Club	Simulates the acoustics of a large club with strong reverb.	Reverb Time	Q	
6	GtrSpace	Reverb with a pronounced midrange.	Sets the reverb duration.	Ø	
7	Strings Room	Reverb emphasizing the low range and midrange.		Ø	
8	Small Chamber	Reverb which makes the spoken voice stand out clearly.		Ø	
9	Glass Room	Reverb with lean low end.		Ø	
10	Rehearsal Space	Simulates a rehearsal room with strong reverb.		Ø	
11	Garage	Simulates the reverb character of a garage.		Ø	
3.	PLATE	These effects simulate the so-called "plate reve produced by a pickup mounted to a large, free-	rb" sound (as hanging iron plate). S/R	
		CHARACTER		Recommended setting	
1	Large Plate	Simulates the reverb produced by a large plate.	Reverb Time Sets the reverb	Ø	
2	Bright Plate	Bright plate reverb suitable for percussion.	duration.	Ø	

ZOOM RFX-1000

7 8 9 10 11	Lo-Pass Plate Hi-Pass Plate Rich Plate Endless Plate Tunnel	Plate reverb acting on the low frequencies. Plate reverb acting on the high frequencies. Dense, rich-sounding plate reverb. Smooth plate reverb with long duration. Simulates the reverb as heard in a tunnel. Reverb effects best suited for vocals and narrat	Sets the reverb duration.	0 0 0 0 0 0
7 8 9 10	Hi-Pass Plate Rich Plate Endless Plate	Plate reverb acting on the high frequencies. Dense, rich-sounding plate reverb. Smooth plate reverb with long duration.		0000
7 8 9	Hi-Pass Plate Rich Plate	Plate reverb acting on the high frequencies. Dense, rich-sounding plate reverb.		0000
7 8	Hi-Pass Plate	Plate reverb acting on the high frequencies.		000
7				0
_	Lo-Pass Plate	Plate reverb acting on the low frequencies.		V
6				1
	Slap Plate	Reverb with a long pre-delay.	Reverb Time	Ø
5	Short Plate	Plate reverb with short reverb time.		Ø
4	Clear Plate	Transparent plate reverb suitable for vocals.		Ø
3	Dark Plate	Plate reverb with a feeling of depth.		Ø

		CHARACTER	REVERB TIME	Recommended setting
1	Female Rock	Reverb suitable for female rock singers.		Ø
2	Male Ballad	Reverb suitable for ballads sung by male vocalists.		Ø
3	Chorus	Reverb suitable for chorus music.		Ô
4	Female Folk	Natural sounding reverb great for female vocals.		Ø
5	Hi Male Rock	Reverb suitable for fairly high-pitched male vocals.	Reverb Time	Ø
6	Narration	Reverb suitable for emphasizing narration.	Sets the reverb duration.	Ø
7	Chanting	Reverb suitable for chanting.		Ø
8	Slapback	Emphasizes vocals without changing other characteristics.		Ø
9	Enhancer	Reverb with emphasized high end.		Ø
10	LushVerb	Wide simulated space suitable for vocals.		Ø
11	EchoVerb	Reverb with long pre-delay.		Ø

5. AMBIENCE

These effects lend a natural sounding ambience to the sound source which is suitable not only for single instruments but also for stereo music sources.

		CHARACTER	REVERB TIME	Recommended setting
1	Rock Mix	Reverb for rock type music sources.		Ø
2	Jazz Band	Reverb for jazz band type music sources.		Õ
3	Reggae Mix	Reverb with a strong wet feeling, for reggae and related genres.		Ø
4	Keyboard	Great ambience for keyboard playing.		Ø
5	Нір Нор	Ambience for rap and hip hop type music.	Reverb Time	Ø
6	Film Score	Ambience for film music.	Sets the reverb duration.	Ø
7	Electronic Mix	Spatial effect suitable for synthesizer.		Ø
8	New Age	Ambience suitable for MIDI sound sources.		Ø
9	Strings Quartet	Warm, midrange centered ambience for strings.		Ø
10	Choral Mix	Rich ambience for chorus and vocal ensembles.		Ø
11	Percussion Mix	Ambience suitable for percussion ensembles.		Ø

6.	DIMENSION These effects control the spatial expansiveness of the sound.				
		CHARACTER		lecommended setting	
1	Super Wide	Emphasizes the stereo spread of music sources.		Ø	
2	Stereo→Mono	Changes the sound localization from stereo to mono.	Reverb Time	Ø	
3	Left→Right	Changes the sound localization from left to right.		Ø	
4	Right→Left	Changes the sound localization from right to left.		Ø	
5	Big Delay	Effect with long pre-delay for creating a wide space.		Ø	
6	Mono→Stereo	Changes the sound localization from mono to stereo.	Sets the reverb	Ø	
7	StereoMids	Adds a wide, expansive feeling to the midrange.	duration.	Ø	
8	Huge Bass	Creates an expansive low end.		Ø	
9	Ping-Pong	Reverb bouncing back and forth between left and right.		Ø	
10	Bass/Treble	Adds reverb to the low and high range.		Ø	
11	Millennium	Creates a vast reverb space.		Ø	
7.	PERCUSSION	These reverb effects are most suitable for drum		∳ ∱ S/R	
		CHARACTER		Recommended setting	
1	Rock Kit/1	Reverb suitable for rock drum.		Ø	
2	LatinPerc	Light ambience for percussion.		Ø	
3	Jazz Drums	Reverb for jazz drums.		Ø	
4	Tom	Slightly deep effect for tom-toms.		Ø	
5	Shaker	Creates optimum ambience for shakers and similar percussion instruments.	Reverb Time	Ø	
6	Reggae Drums	Midrange-centered effect for reggae drums.	Sets the reverb duration.	Ø	
7	Rock Kit/2	Allows adding reverb to snares or cymbals without affecting the low range.		Ø	
8	MalletPerc	Mallet type percussion can be enhanced with this effect.		Ø	
9	Slap	Reverb with short pre-delay, emphasizing the low frequencies.]	Ø	
10	Afro Drums	Reverb suitable for Afro type drums.		Ø	
11	Bells	High range effect suitable for bells.		Ø	
8.	ENSEMBLE	These effects are best for ensemble sections su brass.	uch as strings or	¥ ∱ S/R	
		CHARACTER	REVERB TIME	Recommended setting	
1	Strings	Reverb suitable for strings.		Ø	
2	Brass	Reverb suitable for brass ensembles.		Ø	
3	Piano	Warm, extended reverb great for piano solos.		Ø	
4	Winds	Reverb suitable for woodwinds.	Reverb Time Sets the reverb	0 0 0 0	
5	Synth/1	Reverb suitable for synthesizer.	duration.	Ø	
6	Solo Strings	Reverb suitable for solo strings.	1	Ø	
7	Jazz Organ	Light reverb for highlighting organ sound.	1	Ø	

•	a			1			
8	Chorus	Wide reverb for chorus groups.			Q		
9	Solo Winds	Subdued reverb great for wind instrumer	nt solos.				
10	Church Organ	Reverb for adding a spacious feeling to o music.	Sets the reverb duration.	Ø			
11	Synth/2	Great reverb sound for synthesizer.			Ø		
9.	POWER	These effects add a feeling of powe	r and energ	y to sound sources	5. ∳ ∳ S/R		
		CHARACTER		REVERB TIME R	ecommended setting		
1	Kick/1	Stresses the body impact of bass drums	•		Ø		
2	Kick/2	Increases the perceived size of the bass image.	drum]	Ø		
3	Snare/1	Stresses the body sound of snare drums			Ø		
4	Snare/2	Adds a bright reverb sound to snare drur	ns.		Ø		
5	Toms/1	Suitable for low toms and floor-standing	toms.	Reverb Time	Ø		
6	Toms/2	Emphasizes the midrange sound of tom-	toms.	Sets the reverb duration.	0 O O		
7	Hand Perc	Suitable for hand percussion.			Ø		
8	DistGtr/1	Suitable for distortion guitar sound with s character.	strong box		Ø		
9	DistGtr/2	Suitable for distortion guitar sound with the character.	oright		Ø		
10	Vocal/1	Increases the power impact of vocals.			Ø		
11	Vocal/2	Suitable for ballad type vocals.			Ø		
10). GATE	Special effect where the reverb is br	riskly cut by	a gate.	\		
	c	HARACTER		REVERB TIME			
	Threshold	Adjusts the threshold level where the gate becomes active.	Reverb T	ime Sets the rever	b duration.		
	. REVERSE	This achieves a similar effect as a ta	ape run in re	everse.	∳ ≜ S/R		
	C	HARACTER		REVERB TIME			
	Threshold	Adjusts the sensitivity of the effect, that is the level from which the reverb is applied.	Reverb T	ime Sets the rever	b duration.		

• EFFECTS Bank

This bank contains seven sophisticated single effects (1 - 7) as well as four combined effects (8 - 11) which use two effects simultaneously. The combined effects marked with a "+" are made up of two effects connected in series. The combined effects marked with a "/" use two effects in parallel in the left and right channel.

1. COMP · LIM (Compressor · Limiter)		This effect serves for keeping sig The compressor raises the level or reduces the level of strong signals strong signals.	f signals belov	w a certain threshold and
	VARIATION		REVE	RB TIME/ADJUST
Comp Lim Release	Release and adjusts the release time. compressor/limite		Sets the level where the compressor/limiter becomes	
1 - 6: Compressor Higher values mean longer release time. 7 - 11: Limiter Higher values mean longer release time.			active.	

2. DELAY	A delay effect with a maximum	delay time of up to 1486 ms.	¥ ↑ S/R
	VARIATION	REVERB TIME/ADJUST	
Feedback Cross-1	Adjusts the amount of feedback (number of delay sound repetitions). 6: Feedback = 0 feedback	Delay Time Sets the delay duration Short delay	ı.
3. рітсн	Stereo pitch shifter which adds original sound.	s a pitch-shifted component to the	∳ ∱ S/R
	VARIATION	REVERB TIME/ADJUST	
Pitch Shift Interval	Sets the amount of pitch shift. The range extends from slight detune to 1 octave up o down.	r Pitch Shift Determines the directic pitch shift.	on of
VARIATION value 1 2 Shift (cent) 7 20	3 4 5 6 7 8 9 10 11 100 200 300 400 500 700 900 1100 1200 100 cent 1 semitor 100 cent 1 semitor		ft
4. CHORUS	A stereo chorus with three void	ces per channel.	\
	VARIATION	REVERB TIME/ADJUST	
Chorus Depth	Adjusts the depth of pitch modulation. Turn the control clockwise increases modulation.		lation
Light m	nodulation	Slow 🛈 Fast	
[Setting example]	High-grade chorus with smooth presence	VARIATION = 4 O ADJUST	
5. FLANGER	Stereo flanger with a wide range	ge.	∳ ∳ S/R
	VARIATION	REVERB TIME/ADJUST	
Flanger Depth	Specifies the range over which the effect is active. Turning the control clockwise makes the range broader.	Flanger Rate Adjusts the flanger modulation rate.	
Nar	row range	Slow 🔘 Fast	
[Setting example]] Ultra-slow flanger great for hi-hat	VARIATION = 10 O ADJUST	
6. PHASER	Phaser with pronounced fluctu	ation.	∳ ∳ S/R
	VARIATION	REVERB TIME/ADJUST	
Phaser Depth	Adjusts the intensity of the fluctuation.	e Phaser Rate Adjusts the phaser fluctuation rate.	
	Turning the control clockwise results in mor intense fluctuation.		
Slight f	Turning the control clockwise results in mor	Slow 🔘 Fast	
	Turning the control clockwise results in mor intense fluctuation.	Slow OF Fast	
	Turning the control clockwise results in mor intense fluctuation. fluctuation (). Intense fluctuation] Fluctuation optimized for electric piano	VARIATION = 7	¥ ≜ [S/R]
[Setting example]	Turning the control clockwise results in mor intense fluctuation. fluctuation (). Intense fluctuation] Fluctuation optimized for electric piano	VARIATION = 7	
[Setting example]	Turning the control clockwise results in more intense fluctuation. fluctuation OF: Intense fluctuation Fluctuation optimized for electric piano Effect ranging from tremolo to	VARIATION = 7 O. ADJUST	S/R

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8. DLY+REV	8. DLY+REV This is an in-series combination of delay and reverb.				
	VARIATION	REVERB TIME/ADJUST			
Tu	usts the mixing ratio of the reverb sound. ning the control clockwise increases the erb ratio.	Delay Time Adjusts the delay time up to a maximum of 743 ms. (Feedback is fixed.)			
9. CHO+REV	This is an in-series combination of	of chorus and reverb.			
	VARIATION	REVERB TIME/ADJUST			
Tu	justs the mixing ratio of the reverb sound. rning the control clockwise increases the rerb ratio.	Chorus Depth Adjusts the modulation depth. (Modulation rate is fixed.)			
10. DLY/REV	This is a parallel combination of carries the delay effect and the ri	delay and reverb. The left channel \$\$			
	VARIATION	REVERB TIME/ADJUST			
Tu	justs the mixing ratio of the reverb sound. rning the control clockwise increases the rerb ratio.	Delay Time Adjusts the delay time up to a maximum of 743 ms. (Feedback is fixed.)			
Weak r	everb 😥 Strong reverb	Short delay 🔘 Long delay			
11. FLG/REV	11. FLG/REV This is a parallel combination of flanger and reverb. The left channel carries the flanger effect and the right channel the reverb effect.				
	VARIATION	REVERB TIME/ADJUST			
Tu	justs the mixing ratio of the reverb sound. rning the control clockwise increases the rerb ratio.	Flanger Rate Adjusts the modulation rate. (Modulation depth is fixed.)			
Weak r	everb	Slow modulation 🔘 Fast modulation			

MIX&SFX Bank

This bank comprises special effects such as MIC SIMULATOR and VOCODER as well as mixdown effects useful for mixdown (mixing multiple tracks onto two final stereo tracks).

The effects from this bank are best used with the MIX control turned fully clockwise, so that only the WET sound is output.



For effects 1 - 4, the parameters adjusted by the VARIATION control and REVERB TIME/ADJUST control are the same.

1. POWER /	MIX	Mixdown effect which emphasizes the bass and gives the sound a powerful punch.			
2. WIDE MI	X	Mixdown effect which stresses the left/right stereo spread.			
3. BOOST M	AIX	Mixdown effect which gives the end.	ixdown effect which gives the sound a tight low end and snappy high nd.		
4. VOCAL M	AIX	Brings out suppleness and war adding plate type reverb.	rmth in vocals by stressing the midrange and		
	VA	RIATION	REV	ERB TIME/ADJUST	
Reverb Color	Switche	es the reverb sound character.	Adjusts the intensity of the respective effects.		
2 - 6: Short reverb increases toward n 1: Reverb	ds higher umbers.		increases towards Weak effect C Strong effect		

5. MIC SIMUL	ATOR	Simulates the characteristics of a while using an economical dynam						
	VA	RIATION	REVERB TIME/ADJUST					
	sensitivi Sensitivi Vocals result in	s the characteristics for vocals or ents, and adjusts the limiter ty. 7 - 11: Instruments Higher numbers result in higher limiter sensitivity.	Enhance	Adjusts the intensity of the treble enhancer.				
6. CABINET SIM Adds the sound character of an amplifier speaker cabinet to the sound of an electric guitar.								
	VA	RIATION	REVERB TIME/ADJUST					
Combo/Stack & Depth 1 - 6: Coml Higher numbers stronger cabinet	and adju bo type result in	the amplifier type (combo or stack) usts the effect intensity. 7 - 11: Stack type Higher numbers result in stronger cabinet sound.	Presence	Adjusts the level of the ultra high range.				
7. ROTARY Simulates a rotary speaker where the speaker is turned by mechanical means.								
VARIATION			REVERB TIME/ADJUST					
Drive		the amount of distortion. Turning the clockwise increases distortion.	Rotary Rate	Adjusts the speaker rotation speed.				
Weak distortion 👸 Strong distortion			Slow rotation 🔘 Fast rotation					
8. RING MC	D	This is a ring modulator with shor	t delay.					
VARIATION			REVERB TIME/ADJUST					
Delay Mode 1: Delay Varies the input s modulation frequ	= Off signal	2 - 10: Varies the delay time from flanging to repeat delay. 11: Feedback = Off	Frequency	Sets the frequency with which the input signal is to be multiplied.				
9. RESONANCE This is a filter effect with a resonance component.								
VARIATION			REVERB TIME/ADJUST					
Type & Q 1 - 6: Manually ad cutoff frequency. Tur control clockwise in the res	justs the rning the	the filter type and adjusts the ice intensity. 7 - 11: Uses the input signal envelope to automatically alter the cutoff frequency. Turning the control clockwise increases the resonance.	Frequency / Sensitivity	When the Type & Q parameter is set to manual (1 - 6), this control adjusts the cutoff frequency. When the Type & Q parameter is set to automatic (7 - 11), this control adjusts the sensitivity.				
10. Lo-Fi EF	10. Lo-Fi EFX This is a special effect that can be used to purposely degrade sound quality.							
VARIATION			REVERB TIME/ADJUST					
Lo-Fi Color	Selects	the sound character.	Tone	Adjusts the effect tone.				

11. VOCODER

This effect lets you use a mic connected to the MIC IN jack to control the signal from a synthesizer supplied to the INPUT L jack. The signal supplied to the INPUT R jack is mixed with the MIC IN signal and can also be used as control signal.

To use this effect, turn the MIX control fully to WET.

VARIATION					REVE	REVERB TIME/ADJUST		
Mode & Character Selects the number of filter bands for the VOCODER and the sound character.					Sensitivity	Sensitivity Adjusts the VOCODER sensitivity.		
	1 2 3 4 5	18 bands Fast attack		VOCODER only + chorus + distortion + chorus VOCODER only + distortion				
(Q.)	6 7 8	10 bands	Fast attack	VOCODER only + chorus + distortion + chorus	Low sensi	tivity 🕦 High sensitivity		
	9 10 11		Slow attack	VOCODER only + chorus + distortion + chorus				

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Troubleshooting

Symptom		Check		Remedy
	1	• Is supplied AC adapter connected correctly?	₽	Follow the instructions in "Getting Connected".
		 Is another kind of AC adapter connected? 	⊳	Use only the supplied AC adapter.
		 Is sound source connected correctly to INPUT jacks and are OUTPUT jacks connected correctly to playback system? 	₿	Follow the instructions in "Getting Connected".
No sound or very low		 Are all shielded cables used for the connection okay? 	\$	Try replacing the shielded cables.
volume	$\left \overline{c} \right\rangle$	 Are the connected sound source and playback system operating normally? Is the volume set to a proper position? 	₿	Check all components and set the volume to a suitable position.
		Are INPUT control and OUTPUT control of RFX-1000 set properly?	₿	Follow the instructions in "Trying Out the Effects" and adjust the controls properly.
		 Is a microphone connected to the rear- panel INPUT jack? 	\Diamond	Connect the microphone to the front-panel MIC IN jack.
		• Are effects turned off and is the MIX control fully turned to the WET position?	\Diamond	Turn the MIX control towards DRY.
Input sound breaks up or is distorted]\$	Is input signal level too high?	₿	Adjust INPUT control so that CLIP LED does not light at signal peaks.
No effect sound	R	Were effects turned off with foot switch FS01 connected to rear panel?	₿	Press foot switch again to turn effects on.
	ען	Is incorrect foot switch connected?		Use only ZOOM FS01.

Specifications

Number of preset programs

Sampling frequency A/D converter D/A converter DSP

Rear Inputs L/MONO, R Input impedance:

Reference input level: Microphone input Input impedance: 363 (11 effects x 3 banks x 11 variations)
44.1 KHz
18 bit, 64 times oversampling
18 bit, 8 times oversampling
Zoom original ZFX-2 (24-bit signal processing)
standard monaural phone jack x 2

10 kilohms (MONO), 20 kiloohms (STEREO) -10 dBm to +4 dBm standard monaural phone jack x 1 20 kilohms Reference input level: Outputs L, R:

Output impedance: Reference output level: Control connector Power requirements

Dimensions Weight

* 0 dBm = 0.775 Vrms

* Design and specifications subject to change without notice.

-56 dBm

0008)

1.5 kg

100 ohms or more

BYPASS (FS01)

-10 dBm to +4 dBm

standard monaural phone jack x 2

Applied AC adapter 12V AC (AD-

482 (W) x 44 (H) x 115 (D) mm

Safety Precautions/Usage Precautions

Safety Precautions

In this manual, symbols are used to highlight warnings and cautions for you to read so that accidents can be prevented. The meanings of these symbols are as follows:



This symbol indicates explanations about extremely dangerous matters. If users ignore this symbol and handle the device the wrong way, serious injury or death could result.



This symbol indicates explanations about dangerous matters. If users ignore this symbol and handle the device the wrong way, bodily injury and damage to the equipment could result.

Please observe the following safety tips and precautions to ensure hazard-free use of the RFX-1000.

<u>^</u> •

Power requirements

The RFX-1000 is powered by the supplied AC adapter . To prevent malfunction and safety hazards, Do not use any other kind of AC adapter.

When using the RFX-1000 in an area with a different line voltage, please consult your local ZOOM distributor about acquiring a proper AC adapter.

• Environment

Handling

Avoid using your RFX-1000 in environments where it will be exposed to:

- Extreme temperature
- · High humidity or moisture
- · Excessive dust or sand
- · Excessive vibration or shock

<u>^</u> •

The RFX-1000 is a precision instrument. Do not exert undue pressure on the unit.

Also take care not to drop the unit, and do not subject it to shock or excessive pressure.

aution •

Connecting cables and input and output iacks

You should always turn off the power to the RFX-1000 and all other equipment before connecting or disconnecting any cables. Also make sure to disconnect all cables and the AC adapter before moving the RFX-1000.

Alterations

Never open the case of the RFX-1000 or attempt to modify the product in any way since this can result in damage to the unit.

Usage Precautions

Electrical interference

The RFX-1000 has been designed to minimize radio frequency emissions and is highly resistant to external interference. However, if placed very close to equipment such as TV sets or radio receivers, reception interference may occur. If you encounter problems, move the RFX-1000 further away from the affected equipment.

Whatever the type of digital control device, the RFX-1000 included, electromagnetic damage can cause malfunctioning, and can corrupt or destroy data. Since this is an ever-present danger, thorough care should be taken to minimize the risk of damage.

Cleaning

Use a soft, dry cloth to clean the RFX-1000. If necessary, slightly moisten the cloth. Do not use abrasive cleanser, wax, or solvents (such as paint thinner or cleaning alcohol), since these may dull the finish or damage the surface.

Please keep this manual in a convenient place for future reference.



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