

Quick Guide

You must read the Usage and Safety Precautions before use.



The Operation Manual can be downloaded from the ZOOM website (https://www.zoom.jp/docs/L-20).

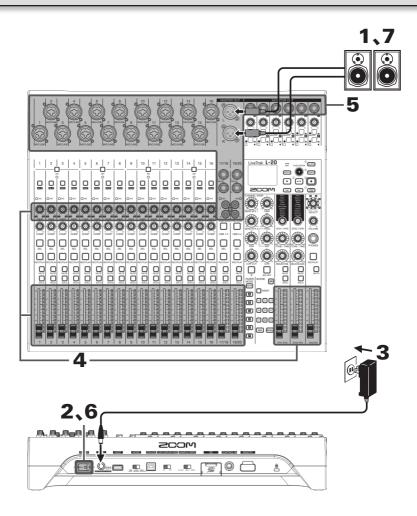
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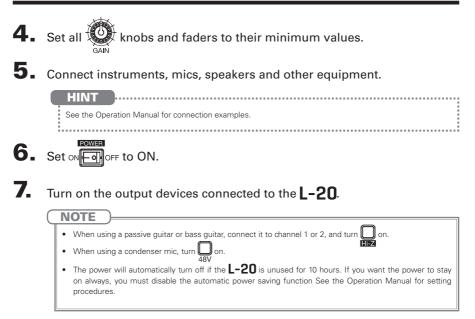
You might need this manual in the future. Always keep it in a place where you can access it easily. The contents of this manual and the specifications of the product could be changed without notice.

Turning the power on and off

Connecting equipment and turning the power on



- 1. Confirm that the output devices connected to the L-20 are turned off.
- 2. Confirm that on off is set to OFF.
- **3.** Plug the AD-19 adapter designed for this unit into an outlet.



Turning the power off

- 1. Minimize the volume of output devices connected to the L-20.
- 2. Turn off the power of output devices connected to the L-20.
- 3. Set ON OFF to OFF.

The following screens appear and the power turns off.

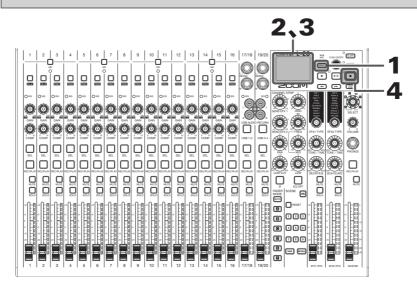
(FOLDERO1)	🔁 ու 🔏 🗈
M	ESSAGE
Goodbye	See You!
05630:WRV44.1	/16 05/12 14:12

NOTE

When the power is turned off, the current mixer settings are saved in the project on the SD card. If they cannot be saved to the SD card, they will be saved in the unit.

Setting the date and time

The first time you turn the power on after purchase, you must set the date/ time.



1. Press (MENU).

This opens the display MENU screen.

2. Select SYSTEM > DATE/TIME.

Move cursor: Turn

Confirm: Press

3. Set the date and time.

Move cursor or change value: Turn

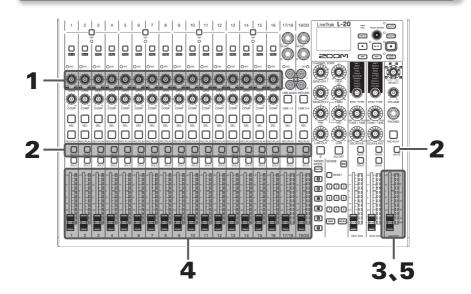
Select item/confirm change: Press

DATE/TIME				
YERR (2018)				(MON)
00	;	00	:	00
RECISET			M	NII):CRNCEL

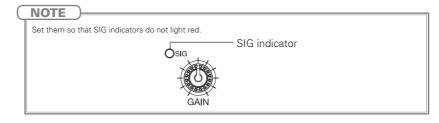


Outputting input sounds from output devices

Outputting sound from speakers

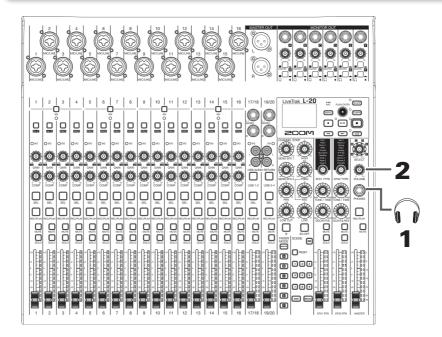


1. Use to adjust the input signals while inputting sound from instruments and mics.



- **2.** Turn Off (unlit) for the MASTER and the channels with sound you want to output.
- **3.** Set the MASTER fader to 0.
- **4.** Use the channel faders to adjust the volumes.
- **5.** Use the MASTER fader to adjust the overall volume.

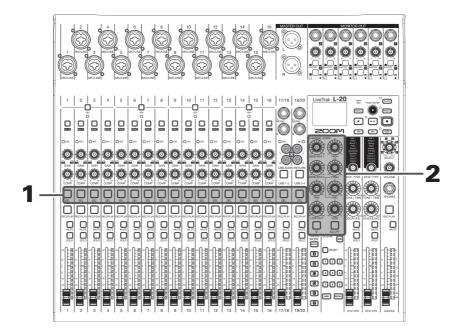
Outputting sound from headphones



- 1. Connect headphones to the PHONES jack.
- **2.** Use $\bigcup_{v \in U}$ to adjust the volume.

rom the PHONES jack can be set to MASTER, SOLO or MONITOR OUT A-F.
Explanation
The same signals as the MASTER OUT are output.
The signals set in the FADER MODE section are output.
The signals of SOLO enabled channels are output.

Adjusting the tone and panning

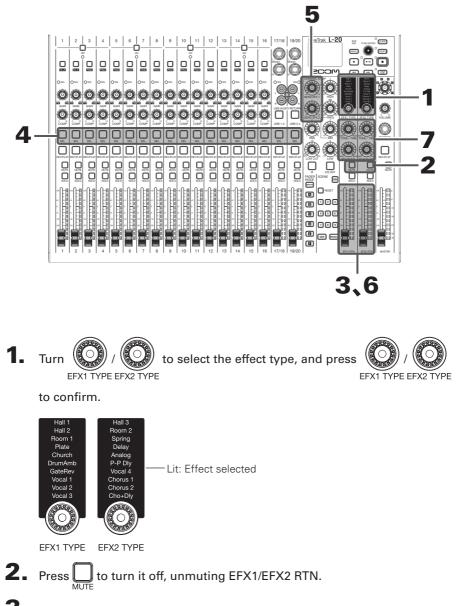


- **1.** Press to light it for the channel for which you want to adjust tone and panning.
- **2.** Use the knobs and buttons to adjust the tone and panning.

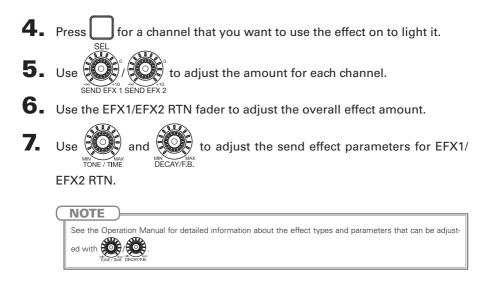
Adjusting the tone: (), (), (), (), (), (), (), (), (), (),
Adjusting the panning:
Reversing the polarity: \Box_{ϕ}
(NOTE)
To turn off all equalization at once, press of to light it. This will bypass HIGH, MID, LOW and LOW CUT settings.
HINT
See the Operation Manual for details about how to use the compressor and the knobs and buttons.

Using the built-in effects

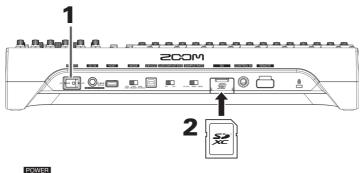
The L-20 has 20 types of send effects in 2 banks.



Set the EFX1/EFX2 RTN fader to 0.



Inserting SD cards



- 1. Set ON FOI OFF to OFF.
- **2.** Open the SD card slot cover, and insert an SD card all the way into the slot.

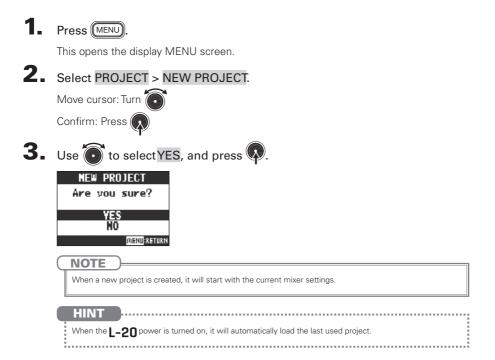
To remove an SD card, push it further into the slot and then pull it out.

NOTE

- Disable write-protection on the SD card before inserting it.
- Always set on to OFF before inserting or removing an SD card.
- Inserting or removing a card while the power is on could result in data loss.
- When inserting an SD card, be sure to insert the correct end with the top side up as shown.
- If an SD card is not loaded, recording and playback are not possible.
- See the Operation Manual for information about formatting SD cards.
- Use an SD card that is Class 10 or higher.
- Format an SD card before recording to it at 96 kHz. If you record without formatting first, skipping could occur.

Creating new projects

The L-20 manages recording and playback data in units called projects.

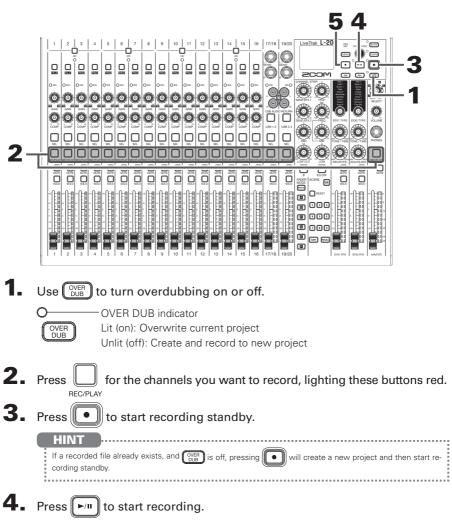


Recording/overdubbing and playing tracks

The **L-20** has recorder functions that enable simultaneous recording of up to 22 tracks and simultaneous playback of up to 20 tracks.

The input signals of every channel and from the master fader output can be recorded. These recordings can also be played back.

Recording

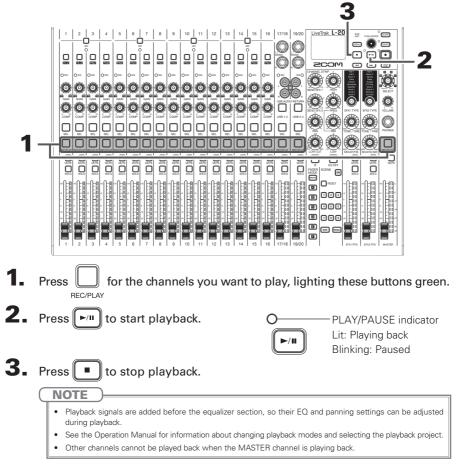


5. Press **•** to stop recording.

NOTE

- The signals recorded on each channel can be set to either before or after the compressor.
- See the Operation Manual for information about punching in/out, automatic recording and pre-recording.
- When recording stops, "Please Wait" appears on the display. Do not turn the power off or remove the SD card while this message appears. Doing so could cause data loss or malfunction.

Playing recordings



Mixer

Mixer		The mono channels have high-quality mic preamps and compressors. Each channel can also have 3-band EQ, LOW CUT, PAN, polarity reversal, and send amounts for 2 effects set. You can also set the bus monitored through the PHONES jack to MASTER, A–F or SOLO.
	Effects	The mixer includes 20 types of send-return effects in 2 groups. Parameters for each effect can be adjusted.
	Scenes	This function can be used to save up to nine sets of current mixer settings as scenes and to recall these saved settings at any time. The mixer settings can also be reset.
	MONITOR OUT	The MONITOR OUT jacks can output 6 different monitor mixes, allowing different performers to receive mixes as they like. Each MONITOR OUT has its own switch to set whether it is connected to headphones or a speaker.
Recorder		The recorder can simultaneously record 22 tracks, including each channel and the master track, and simultaneously play 20 tracks. Recorded data is saved in 16/24- bit, 44.1/48/96 kHz WAV format and managed in units called projects. The following functions can be used with the recorder. • Recording, overdubbing and playing tracks • Adding marks and moving between them • Punching in/out • Mixing down (master track recording and playback) • Automatically starting recording when a set volume is exceeded. • Pre-recording before recording starts
	Projects	The following operations can be used with projects. • Selecting the folder where projects are saved • Selecting projects for playback • Changing project names • Deleting projects • Protecting projects • Checking project information • Saving projects to and loading them from USB flash drives • Checking, deleting and moving between marks
	Audio files	The following operations can be used on audio files. • Deleting audio files • Exporting audio files to and loading them from USB flash drives
Metronome)	The volume, sound and pattern can be changed and the metronome includes a precount function. The volume of each output jack can be set.
Slate mic		The built-in slate mic is useful for adding comments and talk-back during recording. You can set the mic volume and routing.
Audio interf	face	When used as a USB audio interface, it supports 22 ins and 4 outs when the sampling rate is 44.1/48 kHz.
Card reader		Use as a card reader is possible when connected to a computer.
Settings		Settings related to the recorder and SD cards can be made using the MENU key.
	Recorder	Recording format settings Automatic recording settings Showing recording levels on level meters Latency adjustment setting Settings related to playback Settings related to input signal recording sources
	SD cards	Checking open space Resetting to factory settings Testing card performance
	Other settings	Date and time setting Footswitch setting Changing the sampling rate Disabling the automatic power saving function Adjusting the display contrast
Restoring fa	actory defaults	You can restore the unit to its factory default settings.
Firmware	-	You can check the firmware version and update it to the latest version.
	rom an iPad	By connecting a BTA-1 or other dedicated wireless adapter (sold separately) and

See the Operation Manual for details.

Specifications

Number of in-		Mono (MIC/LINE)	16	
put and output		Stereo (LINE)	2	
channels	Outputs	MASTER OUT	1	
		MONITOR OUT	6	
		PHONES	1	
Inputs	Mono	Туре	XLR/TRS combo jacks (XLR: 2 HOT, TRS: TIP HOT)	
	(MIC/LINE)	Input gain	PAD OFF: +16 - +60 dB PAD ON: -10 - +34 dB Hi-Z ON: +6 - +50 dB	
		Input impedance	XLR: 3 k Ω TRS: 10 k Ω /1 M Ω (when Hi-Z ON)	
		Maximum input level	PAD OFF: 0 dBu (at 0 dBFS) PAD ON: +26 dBu (at 0 dBFS)	
		Phantom power	+48 V	
	Stereo (LINE)	Туре	TS phone/RCA pin (unbalanced) jacks	
		Maximum input level	+14 dBu	
Outputs	MASTER OUT	Туре	XLR jacks (balanced)	
		Maximum output level	+14.5 dBu	
		Output impedance	100 Ω	
	MONITOR OUT A-F	Туре	TRS phone jacks (balanced)	
	(with balanced output)	Maximum output level	+14.5 dBu	
	connected to monitor speaker	SOutput impedance	100 Ω	
	MONITOR OUT A-F	Туре	Standard stereo phone jacks	
	(with unbalanced output)	Maximum output level	42 mW + 42 mW at 60 Ω	
	connected to headphones	Output impedance	100 Ω	
	PHONES	Туре	Standard stereo phone jack	
		Maximum output level	42 mW + 42 mW at 60 Ω	
		Output impedance	100 Ω	
Buses		MASTER	1	
		MONITOR	6	
		SEND EFX	2	
Channel strip		COMP	-	
ename emp		LOW CUT	40–600 Hz, 12 dB/OCT	
		EQ	HIGH: 10 kHz, ±15 dB, shelving MID: 100 Hz - 8 kHz, ±15 dB, peaking LOW: 100 Hz, ±15 dB, shelving	
		PHASE	Lotter too hiz, into dib, shorving	
Level meters			12 segments	
Send effects			20 types	
Send effects Recorder		Maximum simultaneous 22 at 44.1/48/96 kHz recording tracks		
		Maximum simultaneous 20 playback tracks		
		Recording format	WAV 44.1/48/96 kHz, 16/24-bit, mono/stereo	
		Recording media	4GB–32GB SDHC cards (Class 10 or higher) 64GB–512GB SDXC cards (Class 10 or higher)	
Audio interface 44.1/48 kHz				
Audio interface	e	44.1/48 kHz	Recording: 22 channels Playback: 4 channels	
Audio interface	e	44.1/48 kHz Bit depth	Recording: 22 channels Playback: 4 channels 24-bit	
Audio interfac	e			
Card reader	e	Bit depth Interface Class	24-bit	
	e	Bit depth Interface	24-bit USB 2.0 Mass storage	
Card reader		Bit depth Interface Class	24-bit USB 2.0 Mass storage USB 2.0 High Speed	
Card reader USB HOST	uency	Bit depth Interface Class	24-bit USB 2.0 Mass storage USB 2.0 High Speed USB 2.0 High Speed	
Card reader USB HOST Sampling freq	uency racteristics	Bit depth Interface Class	24-bit USB 2.0 Mass storage USB 2.0 High Speed USB 2.0 High Speed 44.1/48/96 kHz 44.1 kHz: -1.0 dB, 20 Hz - 20 kHz 96 kHz: -3.0 dB, 20 Hz - 40 kHz	
Card reader USB HOST Sampling freq Frequency cha	uency racteristics	Bit depth Interface Class	24-bit USB 2.0 Mass storage USB 2.0 High Speed USB 2.0 High Speed 44.1/48/96 kHz 44.1 kHz: -1.0 dB, 20 Hz - 20 kHz 96 kHz: -3.0 dB, 20 Hz - 40 kHz	
Card reader USB HOST Sampling freq Frequency cha Equivalent inp	uency racteristics	Bit depth Interface Class	24-bit USB 2.0 Mass storage USB 2.0 High Speed USB 2.0 High Speed 44.1/48/96 kHz 44.1 kHz: -1.0 dB, 20 Hz - 20 kHz 96 kHz: -3.0 dB, 20 Hz - 40 kHz Actual measurements: -128dB EIN (IHF-A) at +60dB/150Ω input	
Card reader USB HOST Sampling freq Frequency cha Equivalent inp Display	uency racteristics ut noise	Bit depth Interface Class	24-bit USB 2.0 Mass storage USB 2.0 High Speed USB 2.0 High Speed 44.1/48/96 kHz 44.1/48/96 kHz 44.1 kHz: -1.0 dB, 20 Hz - 20 kHz 96 kHz: -3.0 dB, 20 Hz - 40 kHz Actual measurements: -128dB EIN (IHF-A) at +60dB/150Ω input LCD with backlight (128×64 resolution)	
Card reader USB HOST Sampling freq Frequency cha Equivalent inp Display Power	uency racteristics ut noise	Bit depth Interface Class	24-bit USB 2.0 Mass storage USB 2.0 High Speed USB 2.0 High Speed 44.1/48/96 kHz 44.1 kHz: -1.0 dB, 20 Hz – 20 kHz 96 kHz: -3.0 dB, 20 Hz – 40 kHz Actual measurements: -128dB EIN (IHF-A) at +60dB/150Ω input LCD with backlight (128x64 resolution) AD-19 AC adapter (DC12V 2A)	



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