JamMan Vocal XT
Vocal Looper

DigiTech by HARMAN

LOOP LEVEL

REC
DUB
PLAY

MIC LEVEL

JamMan
VOCAL XT

DigiTech

Owner's Manual

Warranty

We at **DigiTech**® are very proud of our products and back-up each one we sell with the following warranty:

1. Please register online at digitech.com within ten days of purchase to validate this warranty. This warranty is valid only in the United States.

2. DigiTech warrants this product, when purchased new from an authorized U.S. DigiTech dealer and used solely within the U.S., to be free from defects in materials and workmanship under normal use and service. This warranty is valid to the original purchaser only and is non-transferable.

3. DigiTech liability under this warranty is limited to repairing or replacing defective materials that show evidence of defect, provided the product is returned to DigiTech WITH RETURN AUTHORIZATION, where all parts and labor will be covered up to a period of one year. A Return Authorization number may be obtained from DigiTech by telephone. The company shall not be liable for any consequential damage as a result of the product's use in any circuit or assembly.

4. Proof-of-purchase is considered to be the responsibility of the consumer. A copy of the original purchase receipt must be provided for any warranty service.

5. DigiTech reserves the right to make changes in design, or make additions to, or improvements upon this product without incurring any obligation to install the same on products previously manufactured.

6. The consumer forfeits the benefits of this warranty if the product's main assembly is opened and tampered with by anyone other than a certified DigiTech technician or, if the product is used with AC voltages outside of the range suggested by the manufacturer.

7. The foregoing is in lieu of all other warranties, expressed or implied, and DigiTech neither assumes nor authorizes any person to assume any obligation or liability in connection with the sale of this product. In no event shall DigiTech or its dealers be liable for special or consequential damages or from any delay in the performance of this warranty due to causes beyond their control.

NOTE: The information contained in this manual is subject to change at any time without notification. Some information contained in this manual may also be inaccurate due to undocumented changes in the product since this version of the manual was completed. The information contained in this version of the owner's manual supersedes all previous versions.

Service Contact Info

If you require technical support, contact DigiTech Technical Support. Be prepared to accurately describe the problem. Know the serial number of your device - this is printed on a sticker attached to the chassis. If you have not already taken the time to register your product, please do so now at digitech.com.

Before you return a product to the factory for service, we recommend you refer to the manual. Make sure you have correctly followed installation steps and operation procedures. For further technical assistance or service, please visit our support page at digitech.com/en-US/support. If you need to return a product to the factory for service, you MUST first contact Technical Support to obtain a Return Authorization Number.

No returned products will be accepted at the factory without a Return Authorization Number.

Please refer to the Warranty information, which extends to the first end-user. After expiration of the warranty, a reasonable charge will be made for parts, labor, and packing if you choose to use the factory service facility. In all cases, you are responsible for transportation charges to the factory. DigiTech will pay return shipping if the unit is still under warranty.

Use the original packing material if it is available. Mark the package with the name of the shipper and with these words in red: DELICATE INSTRUMENT, FRAGILE! Insure the package properly. Ship prepaid, not collect. Do not ship parcel post.

Table of Contents

Introduction

The JamMan® Vocal XT is an easy-to-use vocal looper that is capable of recording phrases of up to 10 minutes in length, and with unlimited overdubs, you can now be your own backup vocalist! Use it to create your own vocal harmonies or rhythmic counterpoints in real time.

The JamMan Vocal XT features a studio quality dbx® mic preamp with phantom power, allowing it be used with both dynamic and professional condenser microphones. This circuitry ensures your vocal signal is consistent and clear during regular performance and when looping.

The Mic Level control doubles as a multi-color input signal and clip indicator, making it easy to set the input level for your microphone. The Loop Level control provides a way to balance loop level with the direct vocal signal. The balanced XLR output can be plugged in to the line-level or mic-level input of a mixer, providing utmost flexibility.

Using the built-in JamSync™ feature, multiple JamMan Vocal XTs (or any other JamSync compatible loopers) can be synchronized to provide multi-track looping capabilities! It is possible to cascade two or more JamMan Vocal XTs for multi-track vocal looping, or sync with your bandmates' JamSync compatible JamMan devices for synchronized looping with other members in the band!

We hope you enjoy the endless fun and simplicity that the JamMan Vocal XT provides. Thanks for choosing DigiTech®.

Features

- XLR Input/Output
- Studio-Quality dbx® Mic Preamp w/+48V Phantom Power & Gain Control
- 10 Minutes of Loop Recording Time
- Record Unlimited Overdubs w/Undo & Redo
- JamSync™ Input/Output
- Silent Clear™ Prevents Playback When Clearing Loops
- Simple User Interface w/3 Status LEDs, Loop Level Control, & Footswitch
- Included Power Supply

The User Interface & Connectors

The User Interface

1. **LOOP LEVEL Knob**
   This knob controls the output level of the loop. The 12 o' clock position represents unity gain.
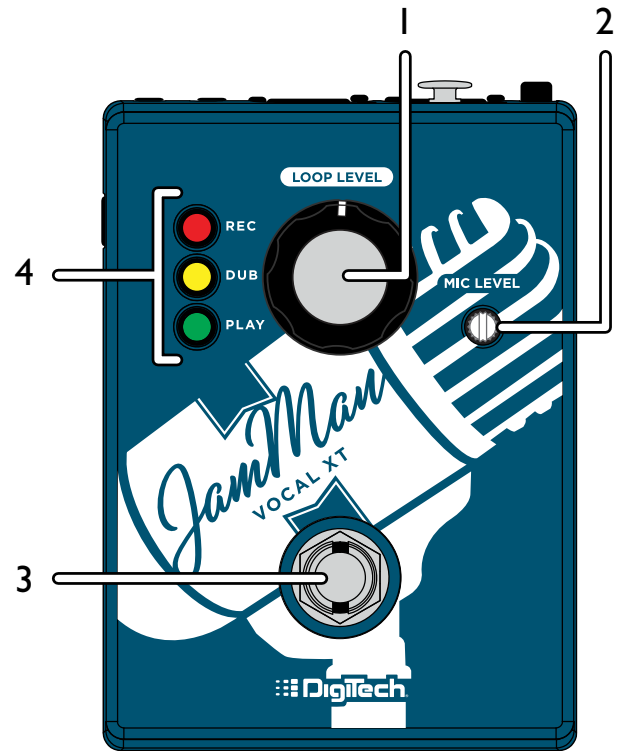
2. **MIC LEVEL Control**
   Adjust this control to set the input gain for your microphone. This control also doubles as a multi-color signal and clip indicator. It will light green when signal is present, orange when approaching the clip point and red when clipping occurs. For optimal signal to noise performance, set this control so it lights green and orange regularly during normal performance and only lights red rarely on the loudest vocal signals.

3. **Footswitch**
   This Footswitch is used to perform all JamMan Vocal XT functions (i.e., record, play, overdub, undo/redo, stop, and clear loop).

4. **Status LEDs**
   These LEDs indicate the status of the pedal as described in the below table.

LED	Status
🔴 REC	Loop is being recorded.
🟢 PLAY	Loop is playing.
🟡 DUB	Overdub is being recorded.
🟡 DUB	Overdub is being undone/redone.
⚪ REC ⚪ DUB ⚪ PLAY	Pedal is in standby (recording/playback stopped).

LED	Status
🔴 REC	Loop is being cleared (footswitch held). Slave armed for record (connected as slave via JamSync).
🔴 REC ⚪ DUB 🟢 PLAY	Slave synchronization established via JamSync.

Connectors

1. **+48V Switch**
   Engage this switch to enable 48V phantom power for use with condenser microphones. Phantom power is on when the switch is in the 'in' position and off when the switch is in the 'out' position.

2. **MIC IN Jack**
   Connect your mic to this XLR jack. If a condenser mic is being used, the +48V switch should be enabled (in position).

3. **MIC OUT Jack**
   Connect this balanced XLR output to the line or mic input of a mixer, or to the MIC IN jack of another JamMan Vocal XT device for multi-track vocal looping.

4. **JAMSYNC OUT Jack**
   Connect this jack to the JAMSYNC IN jack on another JamSync compatible device for master control over loop playback and stop functions.

5. **JAMSYNC IN Jack**
   Connect this jack to the JAMSYNC OUT jack on another JamSync compatible device to slave loop playback and stop functions to a master device.

6. **Power Jack**
   Connect only the included power supply to this jack. The JamMan Vocal XT can only be powered by using the external adapter.
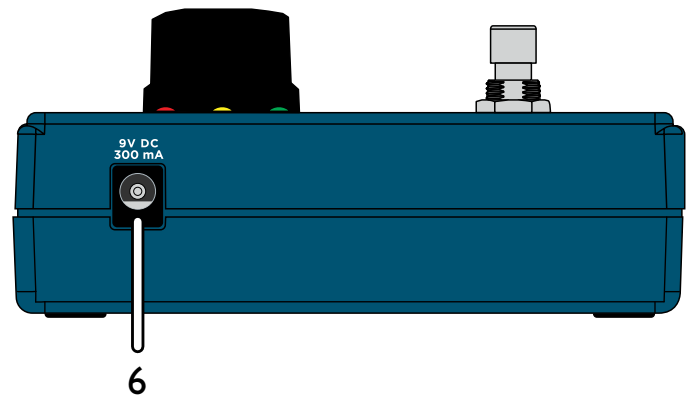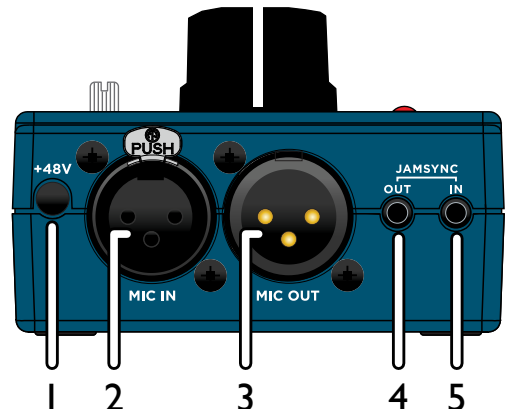
Connection Diagrams

Standard Looping

MIC

ENABLE +48V FOR
CONDENSER MICS

CONNECT INCLUDED
HARMAN POWER SUPPLY

CONNECT TO
MIC OR LINE INPUT

MIXER
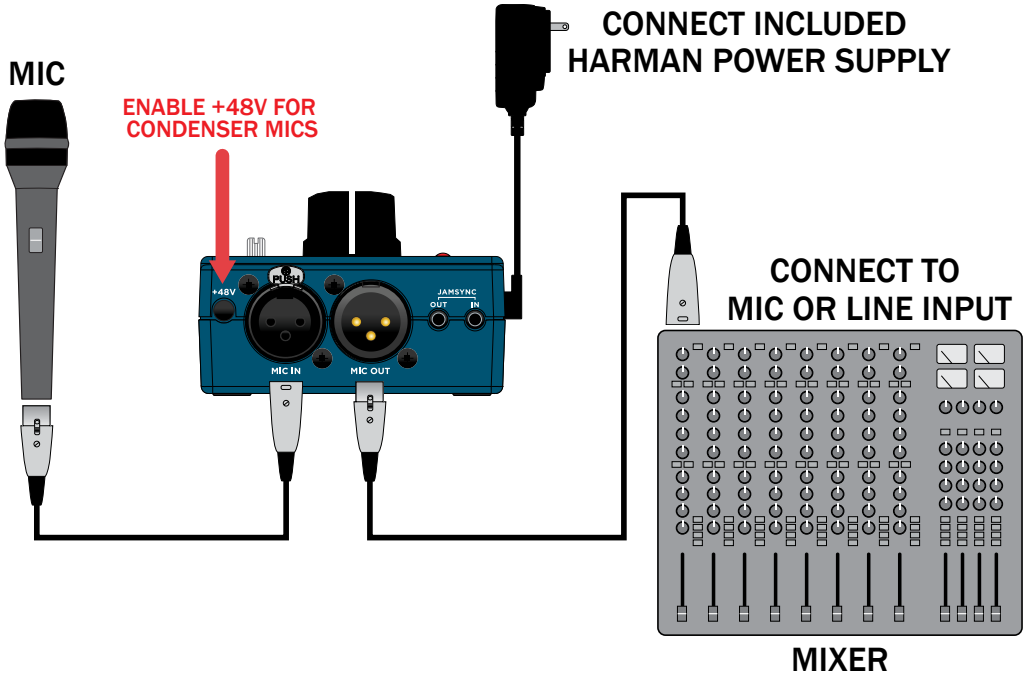
Multi-Track Vocal Looping Using JamSync

MIC

ENABLE +48V FOR
CONDENSER MICS

CONNECT INCLUDED
HARMAN POWER SUPPLIES

JAMSYNC

CONNECT TO
MIC OR LINE INPUT

SLAVE

MASTER

MIXER
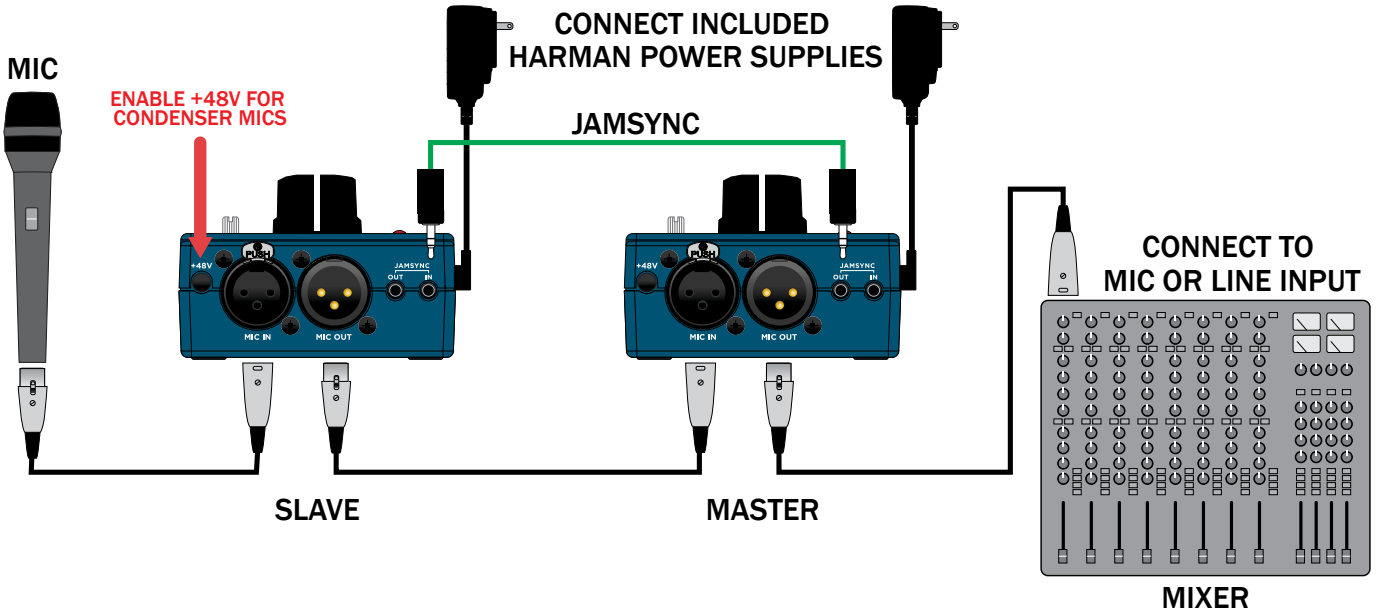
Multi-Musician/Multi-Track Looping Using JamSync

GUITAR AMP

POWER SUPPLY

OUT

GUITAR

JAMSYNC

20

LOOP LEVEL   TEMPO   SETUP   STORE   RHYTHM LEVEL

JamMan Solo XT
MASTER

GUITAR PLAYER

MIC

CONNECT INCLUDED
HARMAN POWER SUPPLY

OUT   IN

CONNECT TO
MIC OR LINE INPUT

JAMSYNC

JamMan Vocal XT
SLAVE 1

MIXER

VOCALIST

BASS AMP

POWER SUPPLY

IN

BASS

REC
DUB
PLAY

LOOP LEVEL

TRUE BYPASS

JamMan Express XT
SLAVE 2

BASS PLAYER
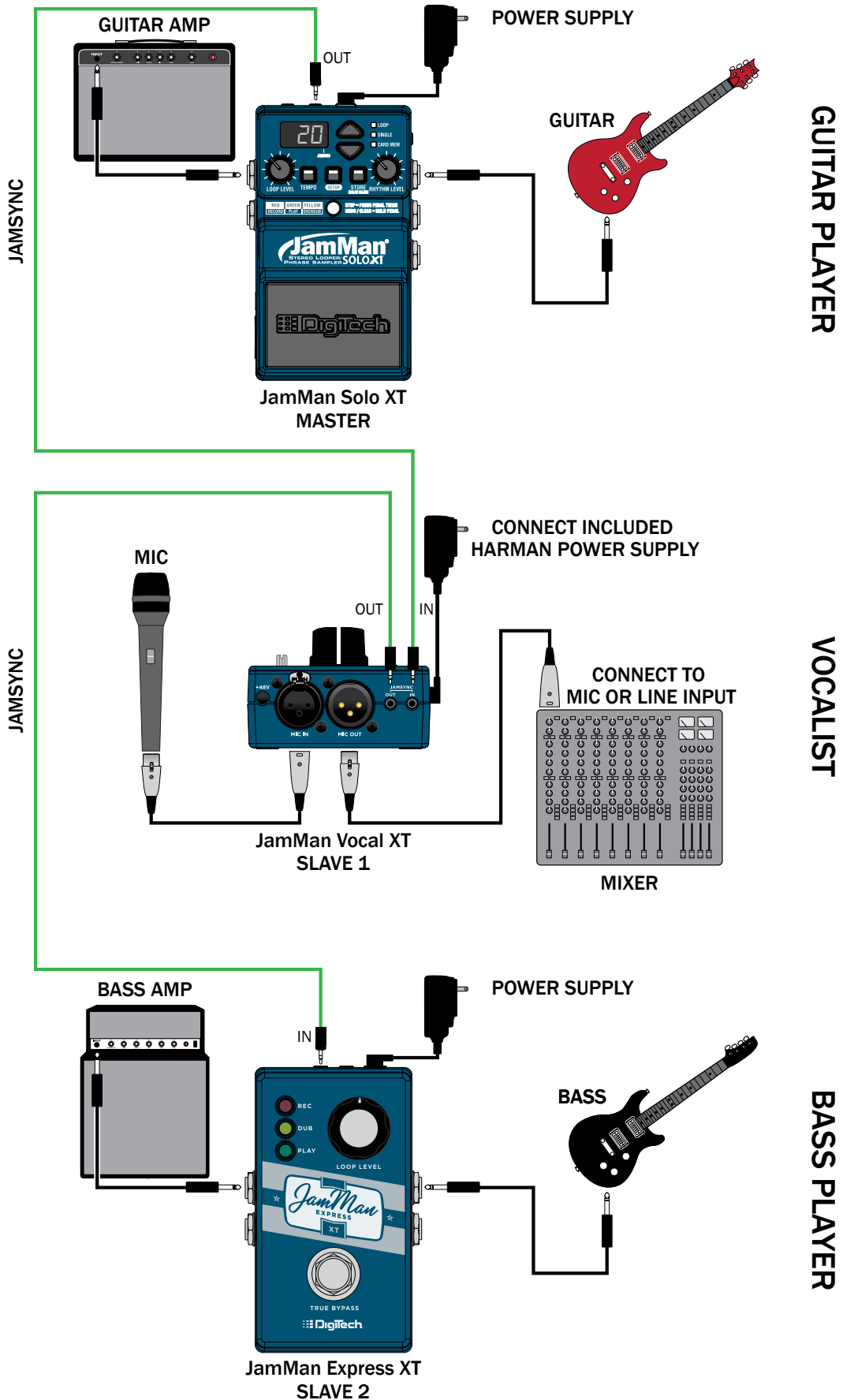
Operation

The JamMan Vocal XT was designed to be very simple to use right out of the box. This section of the manual describes how to perform looping functions.

Recording a Phrase

The JamMan Vocal XT records a single phrase and then plays it back as a continuous loop.

To record a phrase:

1. Press the **FOOTSWITCH** and begin singing to start recording. The **REC LED** will light solid red and recording will begin.

2. When finished recording, press the **FOOTSWITCH** once to set the loop end point. The phrase will automatically begin playing back in a repeating loop and the **PLAY LED** will light solid green.

3. Press the **FOOTSWITCH** 2 times quickly to stop loop playback.

Recording Overdubs

Once a phrase has been recorded, overdubs can be added on top of the phrase.

To record overdubs:

1. Press the **FOOTSWITCH** to start loop playback. The **PLAY LED** will light solid green and the phrase will begin playing.

2. Press the **FOOTSWITCH** again to begin overdub recording. The **DUB LED** will light solid yellow and audio will be recorded on top of the phrase.

3. When done overdub recording, press the **FOOTSWITCH** to end the overdub recording session. The loop will continue playing along with the newly recorded overdub.

4. You can now decide whether you would like to undo the last overdub and re-record it (see "*Undoing/Redoing Overdubs*" in the following section) or proceed and record additional overdubs by repeating steps 2-3.

5. Press the **FOOTSWITCH** 2 times quickly to stop loop playback.

Undoing/Redoing Overdubs

When recording overdubs, you can choose to undo the last overdub recorded if you wish to re-record it. If you change your mind or accidentally undo an overdub, you can then use the redo function to retrieve it.

To undo/redo an overdub:

1. Record an overdub as described in the previous section, "*Recording Overdubs*".

2. Ensure the loop is playing (the **PLAY LED** should be on). If the loop is not playing, press the **FOOTSWITCH** to initiate loop playback. Once the loop is playing, press and hold the **FOOTSWITCH** for ~2 seconds. The **DUB LED** will quickly flash yellow, indicating the overdub has been undone.

3. If you wish to restore the overdub, press and hold the **FOOTSWITCH** again for ~2 seconds. The **DUB LED** will quickly flash yellow, indicating the redo function has been performed and you should now hear the overdub again.

> *NOTE:* Each time an overdub is added, the last overdub is merged with the original loop and can no longer be undone using the undo function. If the combined loop and overdub length exceed 10 minutes (e.g., a 6 minute loop and 6 minute overdub, etc.), the two will automatically be merged and the overdub cannot be undone. Overdubs added to a recorded loop of 5 minutes or less will not be automatically merged.

Clearing a Phrase

Clearing a phrase allows you to re-record it or record a new phrase. The JamMan Vocal XT has a unique feature, referred to as "*Silent Clear™*", which clears a phrase without requiring you to play it first. Note that you cannot undo the process of clearing a phrase, so make sure you want to proceed before performing this function.

To clear a recorded phrase:

1. Stop loop playback if it is not already (all LEDs should be off). If loop playback is active (the **PLAY LED** is on), press the **FOOTSWITCH** 2 times to stop loop playback.

2. Press and hold the **FOOTSWITCH** for ~3 seconds. The **REC LED** will quickly flash red, indicating the phrase has been cleared.

> *NOTE:* When using a slave/master looper setup, if the master loop is ~3 seconds or less and if pressing and holding the **FOOTSWITCH** from a stopped state does not initiate clear on the slave device, you may need to initiate play then stop (3 **FOOTSWITCH** presses) and hold the footswitch on the 3rd press to clear its loop.

Using JamSync™

## Connection & Record Sequence

JamSync allows you to synchronize multiple JamSync compatible devices using optional 1/8" mini stereo (TRS) cables (see below cable diagram). This allows a JamSync master to control the loop playback and stop functions for all connected JamSync slaves, providing multi-track looping capabilities. You can cascade multiple JamMan Vocal XTs for single-player/multi-track looping or connect to other JamSync compatible devices to collaborate with other musicians, each recording and cueing their own loops for expressive multi-player/multi-track looping.

1/8" Mini Stereo (TRS) Cable Diagram
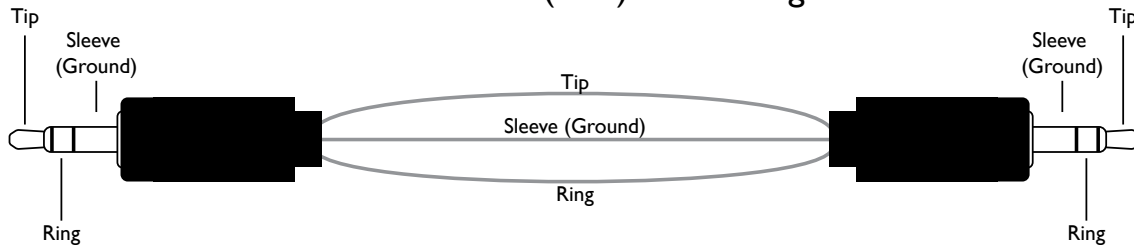
To use JamSync, connect the master device's **JAMSYNC OUT** jack to the **JAMSYNC IN** jack of the first slave device. The **REC** and **PLAY** LEDs on the slaved device will briefly flash, indicating the unit is in slave mode. Daisy chain any remaining slaves in the same manner.

When cascading multiple JamMan Vocal XTs in series and using JamSync, the last Vocal XT device in the chain will be the master. You will want to record to this master device first, then the second to last device, etc., working your way backwards through the signal chain. Performing these actions will ensure you record only what you intend to during each pass.
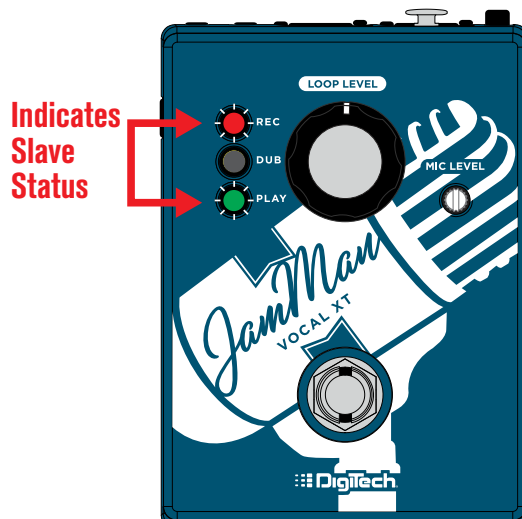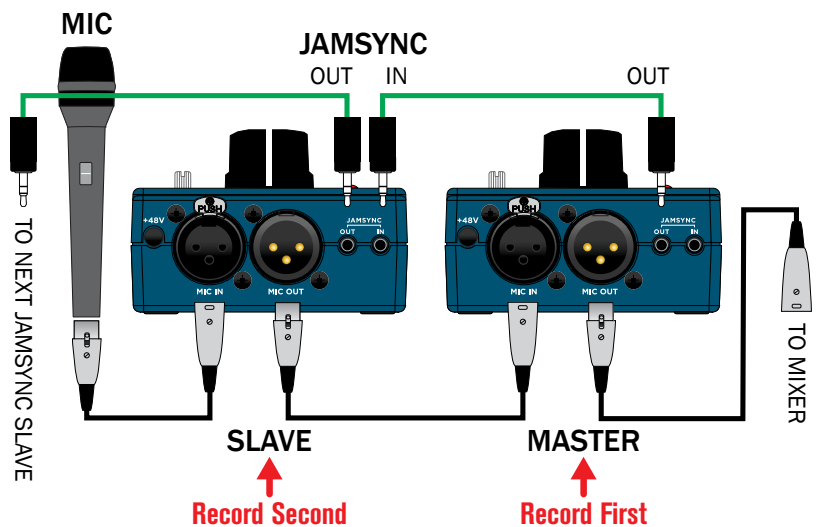
There are two methods for recording loops to a JamSync slaved JamMan device, they are:

- **Manual Slave Recording Method**
  Using this method, you can record to the master then wait until you're ready to record to the slave. This method works well if you do not wish to immediately record to the slave and instead wish to record to the slave at a later time in the song. When using this method, at the point you are ready to record to the slave, you must arm the slave for recording before the master device reaches its loop start point. When the master reaches its loop start point it will send the record command to the slave device(s), so the slave device must be armed in advance to receive the record command.

- **Sequential Slave Recording Method**
  Using this method, you can record to a JamSync slave immediately upon setting the loop end point of the master. Use this method when you want to immediately begin recording to the slave device after recording to the master device.

To record using the Manual Slave Recording Method:

1. Press the **FOOTSWITCH** on the master device and begin singing. The **REC LED** will light solid red and recording will begin.

2. When finished recording to the master, press the **FOOTSWITCH** once to set the loop end point. The phrase will automatically begin playing back in a repeating loop and the **PLAY LED** will light solid green.

3. Press the **FOOTSWITCH** on the slave device to arm the slave for recording. The **REC LED** on the slave device will begin flashing red. Once the master device reaches its loop start point, recording on the slave will begin (the **REC LED** will now light solid red on the slave device). Once recording has begun, you can begin singing.

4. When finished recording to the slave, press the slave's **FOOTSWITCH** once to set the loop end point. The phrase will automatically begin playing back along with the master loop and the **PLAY LED** will light solid green.

5. Press the **FOOTSWITCH** on the master device 2 times quickly to stop loop playback on both devices.

To record using the Sequential Slave Recording Method:

1. Press the **FOOTSWITCH** on the slave device. The **REC LED** will flash red, indicating the slave is armed for recording.

2. Press the **FOOTSWITCH** on the master device and begin singing. The **REC LED** will light

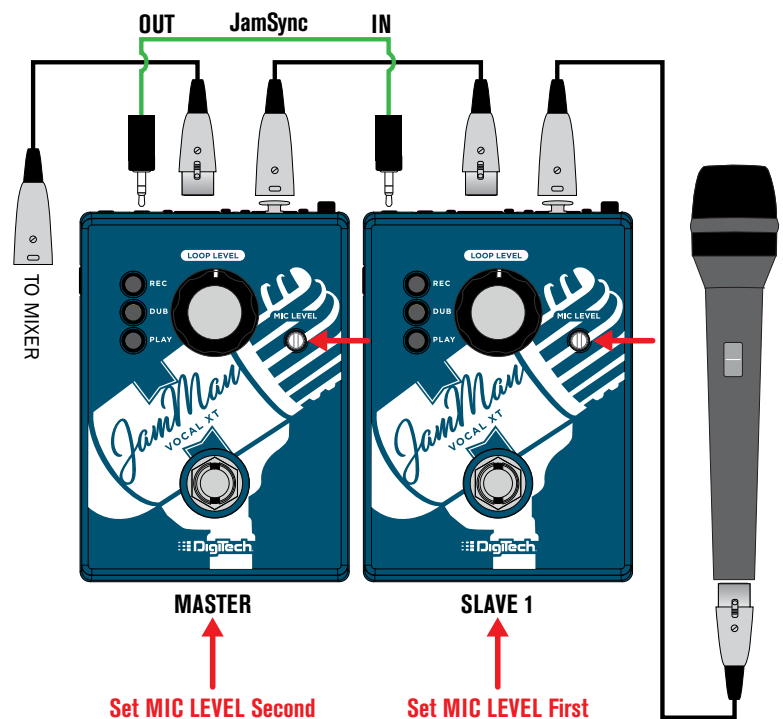solid red and recording on the master will begin.

3. When finished recording to the master, press the master **FOOTSWITCH** once to set the loop end point. The master device's recorded phrase will begin playing back and the armed slave device will now immediately begin recording, indicated by the slave's **REC LED** lighting solid red. Once recording has begun you can continue singing.

4. When finished recording to the slave, press the slave's **FOOTSWITCH** once to set the loop end point. The phrase will automatically begin playing back along with the master loop and the **PLAY LED** will light solid green.

5. Press the **FOOTSWITCH** on the master device 2 times quickly to stop loop playback on both devices.

Gain Staging daisy chained JamMan Vocal XTs
When daisy chaining multiple Vocal XTs for multi-track vocal looping, you will want to optimize the gain stucture of each pedal in the siganl chain to achieve the best signal-to-noise performance.

To gain stage daisy chained Vocal XTs:

1. Begin by setting the **MIC LEVEL** on all JamMan Vocal XT's to the minimum position.

2. Start singing into the JamMan Vocal XT and set the **MIC LEVEL** to the optimal level on the device that the microphone is directly connected to – for optimal signal to noise performance, set this control so it lights green and orange regularly during normal performance and only lights red rarely on the loudest vocal signals.

3. Repeat step 2 on the next device in the chain (see diagram to the right).

OUT   JamSync   IN

TO MIXER

LOOP LEVEL   LOOP LEVEL
REC   REC
DUB   MIC LEVEL   DUB   MIC LEVEL
PLAY   PLAY

JamMan VOCAL XT   JamMan VOCAL XT

DigiTech   DigiTech

MASTER   **SLAVE 1**

Set MIC LEVEL Second   Set MIC LEVEL First

Specifications

INPUT

Connector Type:	Female XLR Pin 2 Hot
Mic Preamp Input Impedance:	330 Ω Balanced
Unity Gain Input to Output:	Mic Level control set to 8 o'clock position
Maximum Input Level at Unity:	-3 dBu
Mic Level Gain:	+0 to +40 dB
Mic Preamp Phantom Power:	45V

OUTPUT

Connector Type:	Male XLR Pin 2 Hot
Output Impedance:	200 Ω Balanced
Playback Unity Gain:	Loop Level knob set to 12 o'clock position
Maximum Output Level:	-9 dBu

PERFORMANCE

Sample Rate:	46.8 kHz/24-bit
Maximum Loop Time:	10 minutes
Frequency Response:	+0/-3 dB 20-20 kHz
Signal to Noise Ratio:	-100 dB

POWER REQUIREMENTS

Consumption:	< 2 Watts typical
Current Draw:	< 200 mA typical / < 400 mA max

POWER ADAPTER

Model:	PS0913DC-01 (US, JA, EU)
	PS0913DC-02 (AU, UK)
	PS0913DC-04 (US, JA, EU, AU, UK)
Input:	100 VAC-240 VAC, 50/60 Hz
Output:	9 VDC 1.3 A
Polarity:	⊕——©——⊖

DIMENSIONS/WEIGHT

Dimensions:	4.8" (L) x 3.4" (W) x 2.1" (H)
	122 mm (L) x 87 mm (W) x 54 mm (H)
Product Weight:	0.6 lb / 0.27 kg
Shipping Weight:	0.9 lb / 0.41kg

Product specifications are subject to change without notice. DigiTech, Silent Clear, and JamSync are trademarks of HARMAN.

DigiTech
by HARMAN

PHONE: (801) 566-8800
WEB: digitech.com
SUPPORT: digitech.com/en-US/support

JamMan Vocal XT Owner's Manual
PN: 5050791-B

GreenEdge™
by HARMAN