DENON DJ

SC3900
SC2900

HYBRID MIDI OPERATION

Addendum for Hybrid Mode

DENON

Denon DJ's **Hybrid MIDI** mode adds impressive DVS (Digital Vinyl System) versatility to the SC3900 – Digital Media Turntable / DJ Controller and the SC2900 – Digital Controller and Media Player with today's leading DJ applications.

World's First Hybrid MIDI mode generates the required "Relative" control signal (timecode) from within the deck's DSP allowing for super accurate tracking and spinning platter performance (SC3900) without using the traditional CD timecode. Using our supplied mapping files, buttons and knobs control essential features such as, File Browsing, Hot Cues, Looping…etc. A range of DVS support is available for, *Serato Scratch Live, *Traktor Scratch, and others.

Hybrid MIDI mode is made available to all current owners and future owners by a simple free firmware update. Visit our global Denon DJ website to download.
    www.denondj.com

Serato/Rane Hardware is required (SL1/SL2/SL3/SL4/TTM57SL,61,62,68) for Serato Scratch Live operation.
Traktor Scratch version and NI approved Traktor Scratch Hardware is required (Audio6/Audio10) or NI certified Denon DJ Mixers, DN-X1600, DN-X1700.

Contents

Select the DVS output control signal before you get started

1. Power ON the SC3900 / SC2900

```
No Disc
```

2. Push and hold the MEMO/-UTIL key for 2-seconds to enter the Utility mode. You will first see, "**Utility – Save As Def.**" displayed.

3. Now turn the flashing Parameters knob one click to find, "**Preset Settings**", then push down on the Paramters knob to select.

```
Utility
Save As Def.
```

```
Utility
Preset Settings
```

4. Turn the Paramater knob until you see, "Hybrid MIDI Freq", then push down on the Parameters knob. "**Scratch Live**" is the default setting for Scratch Live users. If you are a Scratch Live user, skip to item "3" on page 4, MIDI channel configuration

```
Hybrid MIDI Freq
Scratch Live
```

5. To select other DVS DJ application control signals, continue to turn the Parameters knob to select, **2.0kHz, 2.5kHz, 1.2kHz, 3.0kHz**

- o Select **2.5kHz** for – Traktor Scratch v2.5 or higher
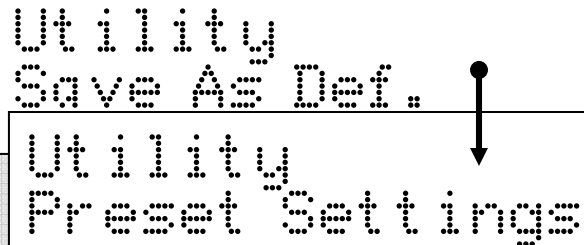
```
Hybrid MIDI Freq
2.5kHz
```

- o Select **3.0kHz** for – MixVibes Cross

- o 1.2kHz is currently undefined

- o 2.0kHz is currently undefined

6. Short push the MEMO/-UTIL key again to save your setting and exit this mode.

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When using the Denon DJ provided Scratch Live .xml mapping file, you can control various pre-mapped functions over USB MIDI. Before doing so, you will need to change the MIDI Channel assignment for each deck. Follow these instructions to configure your decks to work properly with Scratch Live and others.

1. Push and hold the MEMO/-UTIL key for 2-seconds to enter the Utility mode. You will first see, "**Utility – Save As Def.**" displayed.

2. Now turn the flashing Parameters knob one click to find, "**Preset Settings**", then push down on the Paramters knob to select.

```
Utility
Save As Def.
```
```
Utility
Preset Settings
```

3. Turn the Paramater knob until you see, "**MIDI CH**", then push down on the Parameters knob.

```
Preset Settings
MIDI CH
```

4. To select the MIDI channels for Scratch Live, turn the Parameters knob on your Left deck to "**5**" and your Right deck setting to "**6**"

- o **Left Deck, select CH 5**

```
MIDI CH
5
```

- o **Right Deck, select CH 6**

```
MIDI CH
6
```

Note:
When using other DVS applications, (Traktor Scratch, MixVibes) keep your Left deck setting to CH "**1**" and change your Right deck setting to CH "**2**"

For Virtual DJ Pro and RPM, keep your Left and Right deck MIDI CH setting to "**1**" and select, "**Normal**" MIDI mode since native support is offered in VDJ 7.4 or higher, RPM 2.0 or higher.

5. Short push the MEMO/-UTIL key again to save your setting and exit this mode

Note:
Firmware v1050 or higher is required for SC2900 users to access Hybrid mode.
Firmware v1100 or higher is required for SC3900 users to access VDJ, RPM native support in Normal MIDI mode. Get it at www.denondj.com

Before using SC3900, install the DJ software (SERATO SCRATCH LIVE) in your computer to which SC3900 is connected.
After the installation, install the mapping file for operating SERATO SCRATCH LIVE with SC3900 Hybrid MIDI mode.

The method of installation for the mapping file.
1. Download the mapping file.
    From the Denon DJ Website (www.denondj.com), access the Website for your region.
   There, download the following file from the SC3900 product page.
      SC3900_MAP_V1000_SSL.xml

2. Copy the downloaded file to the following folder.
      [Windows]
         \\ MyDocuments \ MyMusic \ _Serato_ \ MIDI \
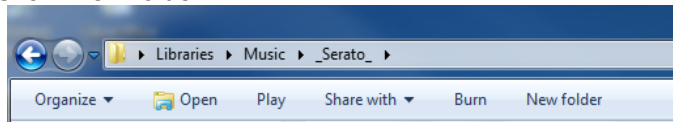   [Macintosh]
          ~ \Music \ _Serato_\MIDI \

   Note:
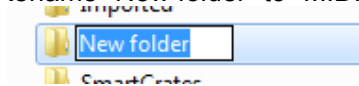   When there is not a MIDI folder, it's necessary to create a MIDI folder by the following operation.
      [Windows]
         (1) Click "New folder"
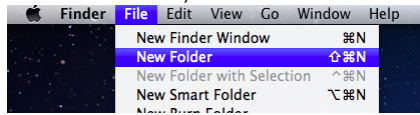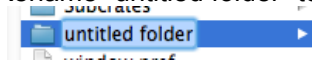

         (2) Rename "New folder" to "MIDI"

      [Macintosh]
         (1) Click File menu, and then click "New folder".

         (2) Rename "untitled folder" to "MIDI"

3. Loading the .XML file.
   (1) Click "SETUP" on Scratch Live to open setup menu.
   (2) Click "MIDI" to open MIDI panel.
   (3) Select the file "SC3900_MAP_V1000_SSL " and click "LOAD".
   (4) Click "SETUP" to close the setup menu.

   Note :
   * This mapping file has been confirmed and tested with Serato ™ Scratch Live ver.2.4.
   Please use the mapping file with Serato ™ Scratch Live ver.2.4 or later.
   * Please switch to "REL"(Relative) mode if you use "ABS" or "INT" mode on Serato ™ Scratch Live.

   Regarding mapping file setting on Serato ™ Scratch Live, please refer to their web site (http://serato.com/).
   Serato ™ is a trademark of Serato ™ Audio Research.
   Scratch Live is a registered trademark of Serato Audio Research.

Before using SC2900, install the DJ software (SERATO SCRATCH LIVE) in your computer to which SC2900 is connected.
After the installation, install the mapping file for operating SERATO SCRATCH LIVE with SC2900 Hybrid MIDI mode.

The method of installation for the mapping file.
1. Download the mapping file.
     From the Denon DJ Website (www.denondj.com), access the Website for your region.
     There, download the following file from the SC2900 product page.
        SC2900_MAP_V1010_SSL.xml

2. Copy the downloaded file to the following folder.
        [Windows]
           \\ MyDocuments \ MyMusic \ _Serato_ \ MIDI \
        [Macintosh]
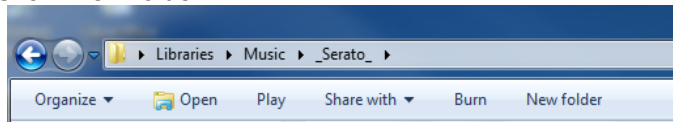   ~ \Music \ _Serato_\MIDI \
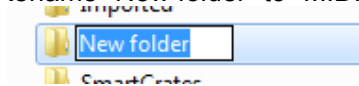
    Note:
       When there is not a MIDI folder, it's necessary to create a MIDI folder by the following operation.
       [Windows]
          (1) Click "New folder"

          (2) Rename "New folder" to "MIDI"

       [Macintosh]
          (1) Click File menu, and then click "New folder".
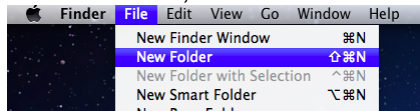
          (2) Rename "untitled folder" to "MIDI"
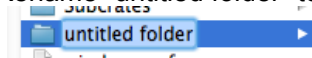
3. Loading the .XML file.
    (1) Click "SETUP" on Scratch Live to open setup menu.
    (2) Click "MIDI" to open MIDI panel.
    (3) Select the file "SC2900_MAP_V1010_SSL " and click "LOAD".
    (4) Click "SETUP" to close the setup menu.

    Note :
    * This mapping file has been confirmed and tested with Serato ™ Scratch Live ver.2.4.
    Please use the mapping file with Serato ™ Scratch Live ver.2.4 or later.
    * Please switch to "REL"(Relative) mode if you use "ABS" or "INT" mode on Serato ™ Scratch Live.

    Regarding mapping file setting on Serato ™ Scratch Live, please refer to their web site (http://serato.com/).
    Serato ™ is a trademark of Serato ™ Audio Research.
    Scratch Live is a registered trademark of Serato Audio Research.

SC3900: Connect the analog RCA Outputs from each Deck into the Rane/Serato SL1, SL2, SL3, SL4 (TTM57SL, 61, 62, 68 mixers) "Line" Inputs (not Phono)
Connect a USB cable from each Deck and Rane/Serato hardware to your computer, a total of 3 USB cables.
*Use a "powered USB HUB" if your computer or MAC does not have enough USB ports available. Connect both Decks to the HUB and Hub to computer.
To enter Hybrid Mode, Press the "MIDI" button, turn the parameter and push down to select.

ABS **REL** INT

In Scratch Live, uncheck the "Thru" option and select "REL" mode. *ABS is not supported.*

OR

SL 2   SL 3   SL 4

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SC2900: Connect the analog RCA Outputs from each Deck into the Rane/Serato SL1, SL2, SL3, SL4 (TTM57SL, 61, 62, 68 mixers) "Line" Inputs (not Phono)
Connect a USB cable from each Deck and Rane/Serato hardware to your computer, a total of 3 USB cables.
*Use a "powered USB HUB" if your computer or MAC does not have enough USB ports available. Connect both Decks to the HUB and Hub to computer.
To enter Hybrid Mode, Press the "MIDI" button, turn the parameter and push down to select.*

ABS **REL** INT

In Scratch Live, uncheck the "Thru" option and select "REL" mode. *ABS is not supported.*

OR

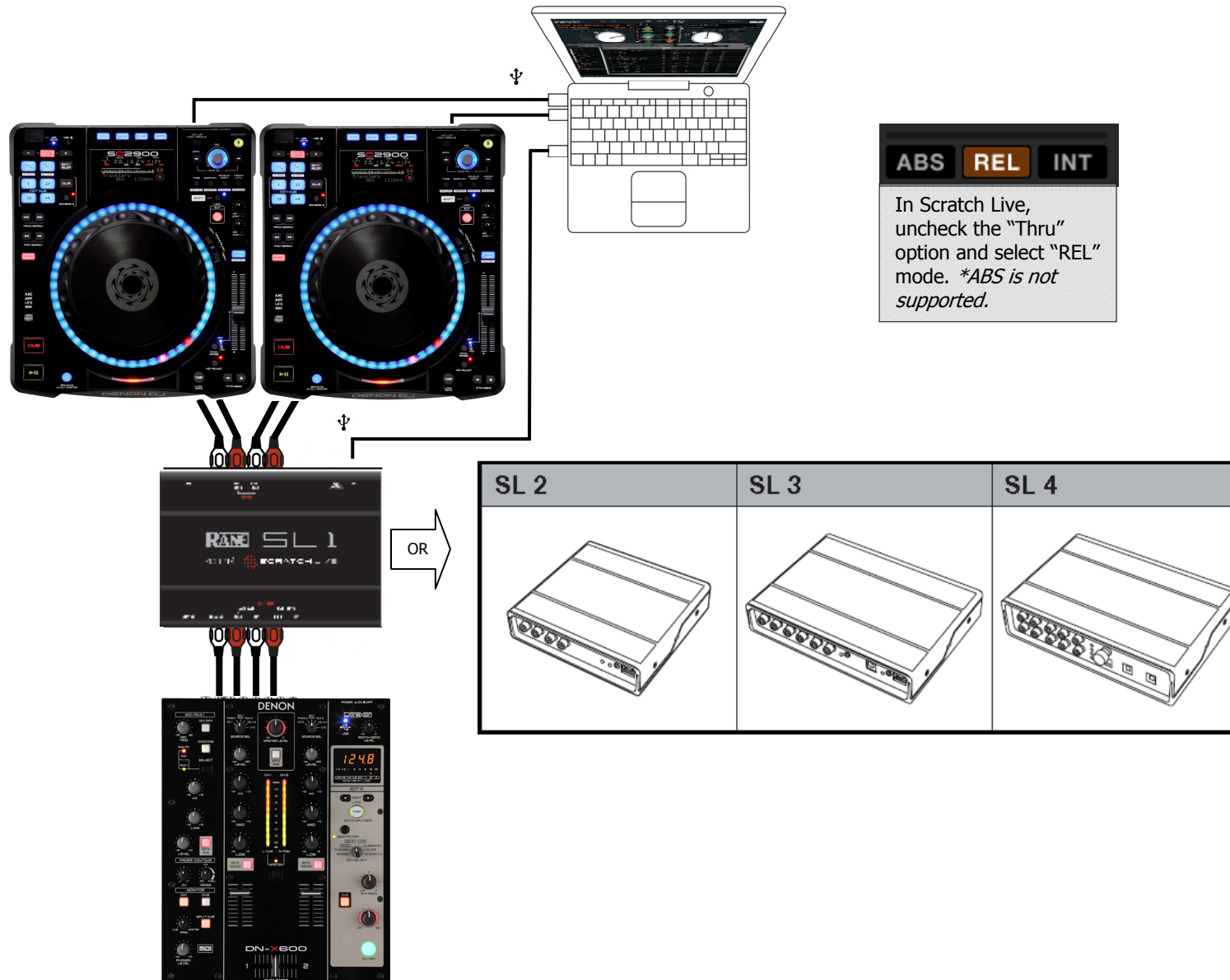| SL 2	SL 3	SL 4

SC3900 - Serato™ Scratch Live Functionality
(MIDI Channel: Left Deck=CH5, Right Deck=CH6)

	SC3900 CONTROLS	SCRATCH LIVE FUNCTIONALITY		CLR +		SHIFT +		SYNC+
A	CUE	Jump Temp Cue		-				Set Temp Cue
B	FAST SEARCH (RWD)	Rewind		-		-		
C	FAST SEARCH (FWD)	Fast Forward		-		-		
D	TRACK SEARCH (PREV)	Load Previous Track		-		-		
E	TRACK SEARCH (NEXT)	Load Next Track		-		-		
F	AUTO LOOP	Auto Loop Button		-		Loop Roll		
G	-	Auto Loop length (x1/2)		-		-		
H	+	Auto Loop length (x2)		-		-		
I	A	Loop In Button		-		-		
J	B	Loop Out Button		-		-		
K	EXIT/RELOOP	Reloop Button		-		-		
L	HOT CUE 1	Trigger Cue Point Button A0		Set Cue Point Button A0		Auto Loop 1/16 Button		
	HOT CUE 1 (MIDI BANK 2)	Play Sample Slot 1 / Slot 4		-		-		
M	HOT CUE 2	Trigger Cue Point Button A1		Set Cue Point Button A1		Auto Loop 1/8 Button		
	HOT CUE 2 (MIDI BANK 2)	Play Sample Slot 2 / Slot 5		-		-		
N	HOT CUE 3	Trigger Cue Point Button A2		Set Cue Point Button A2		Auto Loop 1/4 Button		
	HOT CUE 3 (MIDI BANK 2)	Play Sample Slot 3 / Slot 6		-		-		
O	HOT CUE 4	Trigger Cue Point Button A3		Set Cue Point Button A3		Auto Loop 1/2 Button		
	HOT CUE 4 (MIDI BANK 2)	-		-		-		
P	Hot List Add/Remove	Add Track to Prepare Panel		-		-		
Q	DUMP	Censor Button		-		-		
R	TAP	Tap Tempo		-		-		
S	KEY ADJUST	Key Lock		-		-		
T	SEL. knob	Select / Load Track to Deck		-		-		
U	BACK	Tab Focus		-		-		
V	Forward	-		-		-		
W	TIME	Open Files Panel		-		-		
X	DISPLAY	Open Browse Panel		-		-		
Y	SINGLE/CONT.	Open History Panel		-		-		
Z	MEMO	Open Prepare Panel		-		-		

	SC3900 CONTROLS	Platter FUNCTIONALITY		CLR +		SHIFT +		
a	Play/Pause	Playback and Pause		-		-		
b	REVERSE	Reverse Playback		-		-		
c	VINYL	Vinyl mode ON / OFF		-		-		
d	PITCH BEND [-]	Bend Down		-		-		
e	PITCH BEND [+]	Bend Up		-		-		
f	PITCH RANGE	Change Pitch Range		-		-		
g	START TIME	Adjust the Track Startup Time		-		-		
h	STOP TIME	Adjust the Track End Time		-		-		
i	Pitch Slider	Pitch Up / Down		-		-		

SC2900 – Serato™ Scratch Live Functionality
(MIDI Channel: Left Deck=CH5, Right Deck=CH6)

LOOP

HOT CUE/
SAMPLE SLOT

DECK

BROWSE

DECK

TAP

TAP

TAP

HOT CUE

HOT CUE

DECK

DECK

LOOP

LOOP

SAMPLE SLOT

BROWSE

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	SC2900 CONTROLS	CHK	SCRATCH LIVE FUNCTIONALITY	CHK	CLR +	CHK	SHIFT +	CHK	BPM SYNC +
A	CUE	✔	Jump Temp Cue		-		-	✔	Set Temp Cue
B	FAST SEARCH (RWD)	✔	Rewind		-		-		-
C	FAST SEARCH (FWD)	✔	Fast Forward		-		-		-
D	TRACK SEARCH (PREV)	✔	Load Previous Track		-		-		-
E	TRACK SEARCH (NEXT)	✔	Load Next Track		-		-		-
F	AUTO LOOP	✔	Auto Loop Button		-	✔	Loop Roll		-
G	-	✔	Auto Loop length (x1/2)		-		-		-
H	+	✔	Auto Loop length (x2)		-		-		-
I	A	✔	Loop In Adjust Button		-		-		-
J	B	✔	Loop Out Adjust Button		-		-		-
K	EXIT/RELOOP	✔	Reloop Button		-		-		-
L	HOT CUE 1	✔	Trigger Cue Point Button A0	✔	Set Cue Point Button A0	✔	Auto Loop 1/16 Button		-
	HOT CUE 1 (MIDI BANK 2)	✔	Play Sample Slot 1 / Slot 4		-		-		-
M	HOT CUE 2	✔	Trigger Cue Point Button A1	✔	Set Cue Point Button A1	✔	Auto Loop 1/8 Button		-
	HOT CUE 2 (MIDI BANK 2)	✔	Play Sample Slot 2 / Slot 5		-		-		-
N	HOT CUE 3	✔	Trigger Cue Point Button A2	✔	Set Cue Point Button A2	✔	Auto Loop 1/4 Button		-
	HOT CUE 3 (MIDI BANK 2)	✔	Play Sample Slot 3 / Slot 6		-		-		-
O	HOT CUE 4	✔	Trigger Cue Point Button A3	✔	Set Cue Point Button A3	✔	Auto Loop 1/2 Button		-
	HOT CUE 4 (MIDI BANK 2)		-		-		-		-
P	Hot List Add/Remove	✔	Add Track to Prepare Panel		-		-		-
Q	DUMP	✔	Censor Button		-		-		-
R	TAP	✔	Tap Tempo		-		-		-
S	KEY ADJUST	✔	Key Lock		-		-		-
T	SEL. knob	✔	Select / Load Track to Deck		-		-		-
U	BACK	✔	Tab Focus		-		-		-
V	Forward		-		-		-		-
W	TIME	✔	Open Files Panel		-		-		-
X	DISPLAY	✔	Open Browse Panel		-		-		-
Y	SINGLE/CONT.	✔	Open History Panel		-		-		-
Z	MEMO	✔	Open Prepare Panel		-		-		-

	SC2900 CONTROLS		Platter FUNCTIONALITY		CLR +		SHIFT +		SHIFT +
a	Play/Pause	✔	Playback and Pause		-		-		-
b	REVERSE	✔	Reverse Playback		-		-		-
c	VINLY	✔	Vinly mode ON / OFF		-		-		-
d	PITCH BEND [-]	✔	Bend Down		-		-		-
e	PITCH BEND [+]	✔	Bend Up		-		-		-
f	PITCH RANGE	✔	Change Pitch Range		-		-		-
g	START TIME	✔	Adjust the Track Startup Time		-		-		-
h	STOP TIME	✔	Adjust the Track End Time		-		-		-
i	Pitch Slider	✔	Pitch Up / Down		-		-		-