



rc-homestudio

RC MIDI LOOP

User Manual

An integrated workspace for MIDI, loops and stage performance

MIDI • LOOP • STAGE

Prepared for musicians who use an iPad in live performance and rehearsal.

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This manual covers Loop Workstation, MIDI connections, tempo synchronization, Stage Tools and the RC Set workflow.

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About This Manual

RC MIDI LOOP helps you manage rhythm and melodic loops from pads, synchronize tempo with external MIDI devices, organize lyrics and chords, use PDF documents and prepare performance sets in one workspace.

- Check audio and MIDI connections.
- Verify loop metadata.
- Prepare the repertoire.
- Save and back up the RC Set.

SECTION 01

1. OVERVIEW

RC MIDI LOOP is built around two main working areas:

- LOOP WORKSTATION - Load, edit, synchronize and perform audio loops from pads.
- STAGE TOOLS - Manage lyrics, chords, notes, PDF documents, scale information and stage repertoire.
- Together, these areas bring essential stage materials into one workspace.

SECTION 02

2. MAIN PAGE - ONE-TOUCH STAGE CONTROL

Main Page is the central performance surface. It shows rhythm, section, loop, BPM, transpose and scale status in one view, while a performance button can prepare several MIDI and loop actions with one touch.

- TOP STATUS AREA - RHYTHM shows the name resolved from Button Select; SECTION shows the last INTRO, VAR, FILL, BREAK or END control; LOOP shows the active pad's source filename; BPM follows Loop Workstation; Transpose and Scale show the current values from the Scale page.
- PLAYER 1 / PLAYER 2 - Sends the corresponding player Program Change on the selected keyboard's control channel. The application warns when no MIDI output is available.
- NAMED STAGE CONTROLS - INTRO 1/2/3, VAR 1/2/3/4, FILL 1/2/3/4, BREAK, END 1/2/3 and LOOP STOP are available. INTRO and VAR controls can also trigger the loop slots assigned to the active 24-button scene.
- LOOP STOP - Stops playing and queued loops. When 'keep loop during rhythm change' is enabled, the current loop is preserved while a new rhythm is selected; when disabled, the rhythm change stops the loop.
- FOUR GROUPS x 24 BUTTONS - Four groups organize 96 performance scenes. Every scene can store a name, rhythm, seven loop slots, transpose, scale and - on supported profiles - a sound selection.
- SHORT PRESS / LONG PRESS - A short press activates the scene. A long press or right-click opens the group name or 24-button scene in its editor.
- BUTTON EDITOR - Enter a G-B identity for Rhythm; G-L identities for INTRO 1/2/3 and VAR 1/2/3/4; G-T for Transpose; G-S for Scale; and, on compatible profiles, a second G-B identity for Sound. A Repertoire ID and open-lyrics option can also be assigned.
- IDENTITY VALIDATION - Rhythm accepts only compatible rhythm/NRPN Button Select records; loop fields accept Loop Workstation pad identities; Scale and Transpose accept only their own identity types. An incorrect type or range is rejected.
- ONE-TOUCH ORDER - The rhythm/Button Select command is sent first. After a short settling period for the keyboard's SongBook or preset change, transpose and scale are applied again. A supported sound command follows. Loop slots run on the shared transport when the performer presses the related INTRO or VAR control.
- QUICK SCALE - The lower row provides the first five Scale presets and SCALE RESET. These controls use the same preset data as the Scale page; they do not create a separate copy.

SECTION 03

3. BUTTON SELECT - MIDI COMMAND CENTER

Button Select turns MIDI commands for different keyboards into visual stage buttons. Keyboard profile, MIDI channel, output route, section and command button are managed in one hierarchy.

- **SCREEN STRUCTURE** - The left panel shows keyboard profiles and MIDI channels; the yellow column contains 16 sections for the selected keyboard; the red area displays 48 command buttons for the active section.
- **SUPPORTED PROFILES** - Korg PA5X, PA4X, PA1000, KROSS, KROSS2, Kronos, Virus T2, Nord Wave and Other Keyboard. The selected profile determines how banks and device protocols are transmitted.
- **IDENTITIES** - Red buttons receive stable global identities from G-B-0001 through G-B-7680. Main Page can call these identities as rhythm commands or, where supported, sound commands.
- **VISUAL EDITING** - Set name, text color, top/bottom color and font size for a keyboard, yellow section or red command button. User-entered names are not translated when the interface language changes.
- **CLEARING A SECTION** - 'Clear the 48 buttons in this section' removes only the red-button records linked to that yellow section. Other sections are left unchanged.
- **MIDI TYPES** - Off, Note On, Control Change, Program Change, NRPN and SysEx are supported. Number, value, MSB, LSB or SysEx HEX fields appear according to the selected type.
- **PA5X** - Program Change uses separately entered MSB, LSB and P.Change values. In NRPN mode, the user enters a SongBook number and the application calculates the required NRPN value.
- **PA4X / PA1000** - Selecting Rhythm or Sound and a bank category fills MSB/LSB automatically; the user normally enters only P.Change.
- **KROSS / KROSS2** - A PROG or COMBI selection SysEx is sent first, followed by category-based MSB/LSB and P.Change. After Scale transmission, KROSS2 returns to the PROG/COMBI mode selected in Settings.
- **OTHER PROFILES** - For Program Change, MSB, LSB and P.Change are entered manually. Note, CC, NRPN and SysEx commands use their own independent fields.
- **MIDI OUTPUTS AND TARGETS** - Assign the main output or a specific MIDI output to every keyboard profile; the same command can be routed to several active targets.
- **REPERTOIRE LINK** - If a Repertoire ID and open-window option are stored on a red button, pressing it opens the related lyrics in the left drawer. Closing the drawer does not alter MIDI or loop playback.
- **SHORT PRESS / LONG PRESS** - A short press sends the stored MIDI command. A long press or right-click reopens the same button in the editor.



SECTION 04

4. SCALE - MICROTONAL TUNING AND TRANSPOSE

Scale prepares an independent microtonal cents value for each of twelve notes, stores the values as presets and sends device-specific SysEx messages to selected MIDI targets.

- **12-NOTE EDITOR** - Each piano key can be adjusted independently from -99 to +99 cents. Fine adjustment is available through touch, numeric input, mouse wheel or vertical dragging.
- **ACTIVE NOTES** - A note can be marked for microtonal tuning. The upper status line reports the active count as 0/12.
- **COMMON VALUE** - Select a shared microtonal value with the minus/plus controls. **APPLY TO ACTIVE** writes it only to marked notes.
- **PRESETS** - Each preset stores twelve values independently. The iPad view presents 16 presets plus a separate **RESET** button; other layouts may expose additional configured slots.
- **SAVE / NAME / DELETE** - **SAVE** writes the current twelve values to the active slot; **NAME** changes the user-facing name; **DELETE** clears the name and stored values. An unsaved preset returns to an empty/zero state instead of retaining old values.
- **RESET** - Returns every cents value to 0, clears the active-preset display and transmits the supported reset message to selected targets.
- **TRANSPOSE** - Minus and plus operate from -11 through +11 semitones. Tapping the center value returns transpose to 0.
- **MIDI TARGETS** - Scale and Transpose targets are selected independently in Settings. The interface can change with no target, but no message will reach external hardware.
- **DEVICE-SPECIFIC TRANSMISSION** - Separate SysEx flows are used for PA5X, PA4X/PA1000, Kronos and KROSS2. A KROSS2 preset is applied to PROG and COMBI before returning to the selected mode.
- **MAIN PAGE LINK** - The Main Page status reads the current Scale and Transpose values directly from this page. The first five quick presets and **SCALE RESET** use the same stored data.
- **RC SET LINK** - When **SCALE** is selected, preset names, twelve-note values and related Scale data can be included in the shareable .RC package.



SECTION 05

5. SETTINGS - MIDI TARGETS AND SECTION INTEGRATION

Settings manages the physical MIDI connections and data-sharing paths used by Main Page, Button Select, Scale and Loop Workstation.

- WIRED USB MIDI - Inputs and outputs visible through a Camera Connection Kit, USB-C connection or compatible interface are listed; Refresh scans the devices again.
- BLUETOOTH MIDI - Connect Bluetooth MIDI opens the system picker. Bluetooth Test Note sends a short test on the selected keyboard channel.
- INDEPENDENT TARGETS - Scale, Transpose and Loop can be checked separately for every output. One keyboard may receive tuning/transpose while another input supplies Loop Clock.
- KROSS2 RETURN MODE - Choose whether the device returns to PROG or COMBI after Scale transmission.
- RC SET - SCALE, BUTTON, LOOP and REPR sections can be included independently in one .RC package. LOOP also packages pad settings, database records, analysis data and audio files.
- LANGUAGE - Switch interface text between Turkish, English and German. User-entered button, pad, preset, group and song names, together with MIDI identities, remain unchanged.

SECTION 06

6. GETTING STARTED

After opening the application, complete the basic setup before your first performance.

- Check the iPad audio output or external audio interface.
- Prepare the USB or Bluetooth MIDI connection.
- Transfer loop files to the iPad and create your first RC Set.
- Load loops onto pads and verify BPM, measure and source-key information.
- Prepare your repertoire, save your work and create a backup.



SECTION 07

7. LOOP WORKSTATION

Loop Workstation is the main loop environment for live performance and rehearsal. Use multiple pads and pages to organize songs, rhythms and performance layouts.

- Each pad can contain an independent audio loop.
- Arrange pads and pages for fast access on stage.

SECTION 08

8. LOADING LOOPS ONTO PADS

Select the required pad and load a supported audio file from within the application. Review the following information after loading:

- Loop name
- BPM
- Measure
- Start and end points
- Loop type and source key
- Time-adaptation settings

SECTION 09

9. RHYTHM AND MELODIC LOOPS

Organize loops according to their musical purpose. Timing is central for rhythm loops; both timing and key matter for melodic loops.

- Rhythm: aim for correct BPM, beat alignment, bar start and seamless looping.
- Melody: enter the recorded key in Source Key when possible (example: D), then use key controls when the performance moves to another key.

SECTION 10

10. BPM AND TEMPO

RC MIDI LOOP provides two primary tempo workflows.

- Manual BPM: Set the tempo inside the application when no external MIDI Clock is present (example: 120 BPM).
- External MIDI Clock: Let a workstation keyboard, drum machine or sequencer control the application tempo.

SECTION 11

11. MIDI CLOCK SYNCHRONIZATION

When external synchronization is enabled, RC MIDI LOOP follows incoming MIDI Clock messages and aligns performance timing with the master device.

- Connect the MIDI device and select the clock source.



- Enable external synchronization.
- Start the rhythm or sequencer on the master device.
- Verify that RC MIDI LOOP follows the incoming tempo.
- Make sure MIDI Clock Send / Clock Out is enabled on the master device.

SECTION 12

12. USB MIDI CONNECTION

Compatible MIDI devices can connect to the iPad through USB-C, USB MIDI, a suitable USB hub or a MIDI interface.

- Confirm that the device appears in MIDI settings.
- For stage use, prefer a stable wired connection whenever possible.

SECTION 13

13. BLUETOOTH MIDI

RC MIDI LOOP can work with compatible Bluetooth MIDI devices supported by iPadOS.

- Power on the device and enable pairing mode.
- Select it in the application's MIDI connection area.
- Confirm that the connection is active.
- Test stability in the real venue before professional use.

SECTION 14

14. STARTING AND STOPPING LOOPS

Start or stop a loop from its pad. During synchronized operation, transitions are intended to occur on a musical beat or bar boundary.

- Check measure lengths
- Check BPM values
- Check start points
- Check end points before the performance.

SECTION 15

15. LOOP EDITOR

Loop Editor prepares a loaded audio file for performance.

- Start and end points
- Loop length and region
- Measure information and BPM
- Time-adaptation settings
- Remove unnecessary silence before the first beat or at the end of the loop.



SECTION 16

16. START AND END POINTS

Align the start with the real first beat and place the end so the next cycle creates neither a gap nor a doubled hit.

- Correct cycle: 1 - 2 - 3 - 4 | 1 - 2 - 3 - 4

SECTION 17

17. MEASURE SETTING

Correctly define how many measures the loop contains; this is critical for tempo adaptation.

- Common lengths are 1, 2, 4 or 8 bars.
- An incorrect measure value can produce incorrect adaptation to the target BPM.

SECTION 18

18. TIME ADAPTATION

When the source BPM differs from the performance BPM, time adaptation adjusts the loop to the target tempo.

- Example: Loop BPM 100, Performance BPM 105.
- Large tempo changes may affect sound quality; the best results normally occur when source and target BPM are close.

SECTION 19

19. KEY OPERATIONS

Enter the original recorded key of a melodic loop in Source Key. When the song moves to another key, the tonal change can use this information.

- Melodic motifs
- Arpeggios and pad sounds
- Guitar and string loops
- Instrumental phrases
- A source key is usually unnecessary for drums and pure percussion.

SECTION 20

20. USING MULTIPLE PADS

Several pads can run together in one performance, allowing layers to be added or removed on stage.

- Pad 1 - Main rhythm
- Pad 2 - Percussion
- Pad 3 - Bass loop
- Pad 4 - Guitar
- Pad 5 - Pad / Atmosphere
- Pad 6 - Melodic motif

- Loops used together must have compatible BPM and measure information.

SECTION 21

21. PAGES

Use multiple pad pages for different performance groups.

- Organize by song
- By musical style
- By stage section
- Or by set for fast access in a large repertoire.

SECTION 22

22. RC SET

A performance workspace can be saved as an RC Set. Depending on the version and enabled features, the layout and related performance information are stored in the set.

- Open a saved set instead of rebuilding the setup for every performance.

SECTION 23

23. SAVING AN RC SET

When the setup is complete, use Save and give the set a clear name.

- Wedding Set 01
- Pop Repertoire
- Saturday Live
- Rehearsal Set

SECTION 24

24. LOADING AN RC SET

Open a previously saved RC Set from the Load area.

- Before going on stage, confirm that all loops and performance materials loaded correctly.

SECTION 25

25. BACKUP

Back up RC Sets and custom loop collections regularly.

- Keep a second copy of important work in another storage location whenever possible.

SECTION 26

26. STAGE TOOLS

Stage Tools manages the song and repertoire information needed during live performance.

- Lyrics
- Chords
- Stage notes
- PDF documents
- Scale and chord information
- Repertoire

SECTION 27

27. SONG REPERTOIRE

Build the repertoire song by song and keep the necessary performance information in one record.

- Song title
- Key
- Tempo
- Lyrics
- Chords
- Notes
- PDF

SECTION 28

28. LYRICS

Add lyrics to the corresponding song and keep the layout clean for stage readability.

- Separate sections with headings such as Verse, Chorus, Bridge, Intro and Outro.

SECTION 29

29. CHORDS

Add and edit the song's chords inside the repertoire.

- Example: Am - G - F - E
- Chord information helps you check the harmonic structure quickly during rehearsal.

SECTION 30

30. USING SCALE AS A MUSICAL REFERENCE

Alongside technical microtonal tuning, Scale information can serve as a musical reference for a selected tonal center or chord structure.

- Improvisation
- Soloing



- Melody creation
- Chord-scale relationships
- Musical context, mode, harmony and melodic choice always determine the final result.

SECTION 31

31. USING PDF DOCUMENTS

Attach the relevant PDF document to a song in the repertoire.

- Sheet music
- Lead sheets
- Chord charts
- Orchestra notes
- Stage instructions
- Arrangement information

SECTION 32

32. STAGE NOTES

Add short performance notes to each song as quick reminders.

- 4-bar intro
- Solo after the second chorus
- Raise the final section by a semitone
- Start with drums

SECTION 33

33. USING A SETLIST

Arrange the stage program in performance order.

- Opening
- Song A
- Song B
- Slow Section
- Dance Section
- Final
- Always confirm the order before the show.

SECTION 34

34. PRE-STAGE CHECK

Complete this checklist before starting a live performance.

- iPad charge and power
- Audio output and interface
- MIDI connection and MIDI Clock
- BPM and RC Set

- Loop files
- Repertoire and PDFs
- With external clock, start a rhythm on the master device and test tempo tracking.

SECTION 35

35. BEST-PERFORMANCE RECOMMENDATIONS

Prepare the device for reliable stage operation.

- Close unnecessary background applications.
- Consider restarting the iPad before a long show.
- Use quality USB cables and reliable MIDI/audio connections.
- Test Bluetooth MIDI in the real venue.
- Check all loop files and back up important RC Sets.

SECTION 36

36. SYNCHRONIZATION PROBLEMS

If a loop does not follow the external MIDI device correctly, inspect the complete timing chain.

- Is MIDI Clock being transmitted?
- Is the correct MIDI device selected?
- Are loop BPM and measure values correct?
- Is the start aligned with the first beat?
- Is there unnecessary silence at the end?
- Is the connection active?
- Increasing drift on every cycle usually indicates incorrect loop length, BPM or measure data.

SECTION 37

37. BLUETOOTH MIDI PROBLEMS

If the Bluetooth MIDI device is not visible, rebuild the connection.

- Power-cycle the device and check pairing mode.
- Confirm the iPad Bluetooth state.
- Reopen RC MIDI LOOP.
- Make sure the adapter is not connected to another device.
- Adapters may support only a limited number of simultaneous connections.

SECTION 38

38. NO AUDIO

If a pad appears to run but no sound is heard, check the complete audio chain.

- iPad volume
- External audio interface
- Audio output
- Correct file loaded on the pad

- Mixer or sound-system channel levels

SECTION 39

39. DATA SAFETY

The user is responsible for maintaining regular backups of custom performance work.

- Do not keep important stage projects on only one device.

SECTION 40

40. COMPATIBILITY

MIDI and Bluetooth MIDI operation depends on the iPadOS compatibility of the device and adapter.

- Check the manufacturer's manual to confirm support for MIDI Clock, MIDI Start/Stop and other required messages.

SECTION 41

41. IMPORTANT NOTE

RC MIDI LOOP may be improved or expanded in future versions.

- Screen names and controls may differ slightly from this manual depending on the version in use.

SECTION 42

42. THE PURPOSE OF RC MIDI LOOP

RC MIDI LOOP combines Loop, MIDI Synchronization, Repertoire, Chord, Scale, PDF and Stage Note tools in one performance workspace.

- A well-prepared RC Set reduces technical work on stage and helps the musician focus on the performance.



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With RC MIDI LOOP, a well-prepared RC Set reduces technical work on stage and helps you focus on the music.

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