Mini Midi Sequencer+ Features Guide
Brotech Electronics

The Brotech Electronics Mini Midi Sequencer+ (mMS) is a tablet controlled midi player used to play midi files to a midi enabled instrument such as a band organ. It works with all midi to parallel interface boards and midi enabled instruments. This features* guide is split into two sections; the mMS tablet application, and mMS hardware which has its own user programmable settings. (* *for currently shipping hardware*)

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mMS Application Soft-Key Controls and Indicators

After the mMS App on the tablet is running and a link is made to the hardware, the following controls, buttons, and displays are available. (advanced menu display shown)

● Bluetooth Status Indicator:
Indicates that the tablet is actively connected with the hardware, slow steady blinking green or red

● BT CONNECT:
Used to reassert the Bluetooth Connection
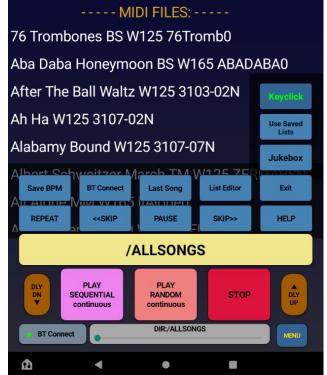
● BPM, DLY, FNT, FF, FS, DN/UP:
Two multipurpose buttons to change song tempo, in-between silence song interval delay (autoplay mode), font size, line spacing, forward fast (FF), forward slow (FS). Each tap changes the setting by +/- 1. Long-press while a song is playing for FF/FS

● DIR field:Shows the current active directory

● Exit: End the mMS App and return to the tablet home screen

● HELP: Display/hide the help screen

● Jukebox: When active, tap on song selections and the name is appended with a number. The songs will be played in the order selected

● Keyclick: Enable or disable keyclick sound

● Last Song: Show the last 5 songs played

● List Editor: Start the MMS Playlist Editor Application

● MENU: Show/hide the advanced buttons

● PAUSE: Pause the currently playing song

● Play Random: Play songs automatically in random order.

- Play Sequential: Play songs automatically in sequential order (as ordered on the SD memory card)

- REPEAT: Repeat play the currently playing song

- SAVE BPM: Display, change and save the tempo of the current song

- Scroll Slider Control: A slider control for quickly scrolling through the song list

- SELECTION BAR:
Play individual songs or change directories. Taps are first copied to the selection bar, then it is tapped to execute.

- SKIP>>>: Skip forward to the next song

- <<<SKIP: Skip back to the previous song

- Song Duration:
For an actively playing song, the song duration and play time remaining will appear at the bottom of the screen.

- STOP: Stop the current play mode and the currently playing song or activity

- Use Saved List:
Use a previously Saved Directory song list (intended for use by ADVANCED USERS), rather than uploading a list from the mMS hardware SD memory card

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mMS Hardware Configuration File
   The mMS can use a configuration file to set certain advanced operating defaults, by setting keywords within the file. If the configuration file is missing, then defaults are automatically used. For most users, the defaults are fine.

Configuration File Keywords
- DefaultDirectory: Change the power on boot directory (Default: /{ROOT:})

- ToneStatusBegin: Play a status note for any begin directory change (Default: OFF)

- ToneStatusEnd: Play a status note for any end directory change (Default: OFF)

- ToneStatusFileError: Play a status note if there is an SD memory card error (Default: OFF)

- ToneStatusMidiFileError: Play a status note if there is a file read error (Default: OFF)

- BootAllNotesOff: On mMS power-up, automatically turn all notes (Default: ON)

- NumberOfChannels: Restrict number of channels that the mMS will play, 1-16 (Default: 16, all channels)

- AllNotesOffMode: All notes off command: manual, all sounds off, all notes off (Default: manual)

- DeclencheNote: Identify and change status of the instrument Declenche (Default: disabled)

- RenameBT: Rename the mMS hardware shipping name MINIMIDI to the instrument name

- ShowRootDirectories: Always show the directories in the {/Root} (Default: Enabled)

- ShowSongDuration: Calculate and show the current playing song length/duration. (Default enable)

- RollSpeedAdjust: Fine adjustment of the mMS hardware midi file play speed, in 0.1% increments (Default: 0)

- SyncFileList: Normally the alphabetically sorted tablet display of midi files does not match the SD Card organization, which is usually not alphabetically arranged. Force synchronization of the two (Default: disabled)

- UniqueRandomPlay: Random Play without repeating songs up to 550 songs (Default: enabled)

- Verbose: Send a verbose midi stream that always includes the channel number (Default: enabled)

- PrePlayCommand, PrePlaySongDelay, PostPlayCommand, PostPlaySongDelay Trigger an event before a song begins playing, and then another event after a song ends, with a user settable delay time; useful for powering on an instrument. (Default: disabled)

- PlayCommandDuration: Pre/Post Play Command note duration multiplier. Can be 1 (Default 1/4sec) thru 40 (10secs)

- NotesOffAllSongs: Ensure silence between all songs (Default: OFF)

- DisplayUserSettings: Diagnostic Tool to display all user settings on the tablet (Default OFF)

- DoubleOff: Adds timing delay to Notes Off all modes. (Default: OFF)

Special Order Features
- ExternalSwitchPlay, SwitchCountPerPlay, SwitchDebounceTime (extra cost optional feature): Play music with an external switch closure. This can be used with a coin trip mechanism, an external switch, or external keyfob style button RF switch.
  ExternalSwitchPlay: SEQUENTIAL or RANDOM or OFF or DISABLE. The (Default: disable)
  SwitchCountPerPlay: Set the number of external switch trips to play one song, 0 - 254 allowed. (Default: 1)
  SwitchDebounceTime: Set the switch debounce time in milliseconds (Default: 500)
  SongsPerPlay: Set the number of songs to be played for each completed SwitchCountPerPlay (Default: 1)
  SwitchCountPerPlay Number of coin drops/switch closures per play (Default: 1)

- External Relay Control: Control an external UL Recognized opto-isolated solid state relay using a signal directly from the mMS hardware

- SecurePlay: Only play authorized midi songs that have an embedded key

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Miscellaneous Information
Bluetooth: The standard Bluetooth RF range is at least 10M (30 feet)
Maximum directory and midi filename length = 88 characters (skips longer named files)
Maximum number songs in any single directory = 1100 (ignores any balance)
Midi type song = will only play midi type 0 songs
SD memory = SDHC, maximum 32G, speed class at least 4 (as tested)
A/C adapter = 9VDC/1A, center positive, 2.1 x 5.5mm barrel plug, UL Recognized

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