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Evolution Audio

Welcome to the magical, musical world of [Evolution Audio](#) brought to you by leading UK musical software developer, Evolution Electronics. [Evolution Audio](#) provides a unique combination of Digital Audio and MIDI recording, allowing you to make the most of your musical ideas. Its user friendly, graphical interface ensures a fast learning curve, leaving you to concentrate on the most important thing of all; making great music!

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Menus

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Help for each Menu Item can be accessed directly by pressing F1 when the menu item is highlit.

Windows

Transport

Editors

Keyboard

Track

Piano Roll

Event

Score

Drum

Conductor

Notepad

Mixer

General Window Information

File Menu

The File Menu contains the following Menu Items:

New
Open
Save Song
Save...
Save As...
Quit

File Formats

The contents of each type of file are as follows:

Song (.SNG)

Tracks used.
Patterns used.
Tempo & Time Signature.
Left & Right Locators.
Notepad.

Pattern (.PAT)

Contents of pattern.

Drum Kit (.DRM)

Contents of Drum Kit.

MIDI (.MID)

Standard MIDI File format, Type 0 or 1.

Definitions (.DEF)

Contains all values from the Settings Menu items:

Preferences...
Metronome...
Devices...
Mixer...
Audio System...

The file DEFAULT.DEF is saved each time you Quit from the program, and loaded the next time you run it, so these settings are preserved between sessions.

Window Layout (.WND)

For Each Window

Size and position.
Caption on / off status.
Whether maximized or minimized.

Transport Window

- Auto Return.
- Record Mode.
- Toggle switches.

Track Window

- Visible Columns.
- Horizontal & Vertical Zoom levels.
- Snap settings.

Piano Roll Window

- Horizontal & Vertical Zoom levels.
- Grid resolution.
- Speaker, MIDI, & Step switches.

Event Window

- Note Length.
- Insert Type.
- Speaker, MIDI & Step switches.
- Display Filters.

Score Window

- Resolution.
- Note Length.
- Speaker, MIDI & Step switches.
- Contents of Score Settings Dialog.

Drum Window

- Zoom level.
- Grid Resolution.
- Speaker, MIDI & Step switches.
- Visible Columns.

Conductor Window

- Zoom Level.
- Snap.

The file DEFAULT.WND is saved each time you Quit from the program, and loaded the next time you run it, so these settings are preserved between sessions.

New

This removes the current song from memory - use it when you want to start a new song.

Open

Loads a file from disk. The following file types are allowed:

- Song (.SNG)
- Pattern (.PAT)
- Drum Kit (.DRM)
- MIDI File (.MID)
- Definitions (.DEF)
- Window Layout (.WND)

Each file type has a corresponding radio button on the right side of the Dialog. If you click on one of these the directory will show files of that type.

Save Song

This is a quick way of saving the Song you are working on. The File Dialog is not displayed - the filename of the current song is used so you don't need to tell the program again.

If you try to use this to save an untitled song, the File Dialog will be displayed, but only the .SNG file type will be allowed.

Save...

This is where you can save a file you are working on. When you enter the File Dialog, the name of the file last accessed is shown and the directory shows only files of that type. You can change the file type by clicking on one of the radio buttons at the right side of the Dialog.

If you are saving a song, you could use the Save Song function, which is quicker.

If you are saving a MIDI file, you can save either a Type 0 file (a single track) or a Type 1 file (two or more tracks). The program checks to see how many tracks contain patterns. If only one track contains patterns, it saves a Type 0 file, otherwise it saves a Type 1 file.

If you have several tracks containing patterns, but want to save a Type 0 file, choose Select All from the Edit Menu, then Merge Patterns from the Procedures Menu. Delete the old tracks so only the 'Merged' track remains. Choosing Save... will now save this as a Type 0 file.

Save As...

When you want to save a new file for the first time this is the function to use. You need to specify which type of file you want to save, then type in the name in the filename entry at the top of the Dialog.

You can also use this to save a file you are working on with a different name, thereby copying it.

If you are saving an untitled song, you could use the Save Song function.

If you are saving a MIDI file, you can save either a Type 0 file (a single track) or a Type 1 file (two or more tracks). The program checks to see how many tracks contain patterns. If only one track contains patterns, it saves a Type 0 file, otherwise it saves a Type 1 file.

If you have several tracks containing patterns, but want to save a Type 0 file, choose Select All from the Edit Menu, then Merge Patterns from the Procedures Menu. Delete the old tracks so only the 'Merged' track remains. Choosing Save As... will now save this as a Type 0 file.

Quit

Choose this when you want to get out of the program.

Edit Menu

The Edit Menu contains the following Menu Items:

Undo

Redo

Copy

Cut

Paste

Clear

Select All

Describe Clipboard...

Undo

Reverses the effect of the last editing operation. For example, if you just used the Transpose function (called from any window), Undo will restore the notes to their original pitches.

See also:

Redo.

Redo

Reverses the effect of Undo.

Copy

Copies the selected items to the Clipboard.

See also:

Cut, Paste.

Cut

Copies the selected items to the Clipboard and removes them from the song.

See also:

Copy, Paste.

Paste

Moves the data from the Clipboard to the song. The new items become the selected ones, which makes it easy to move them elsewhere if required.

See also:

Copy, Cut.

Clear

Removes the selected items from the song.

Select All

Selects all items in the current window. Selected items are black (except muted patterns which change from light grey to dark grey).

Describe Clipboard...

Informs you what data, if any, is currently stored on the Clipboard.

Options Menu

The Options Menu contains the following Menu Items:

- Transpose...
- Change Velocity...
- Change Lengths...
- Quantize...
- Move Events...
- Change Timing...
- Delete Events...
- Thin Out Continuous Events...

When one of the above is called from the Track Window only the selected pattern(s) will be treated. If you have not selected any patterns, all patterns on the selected track will be treated.

See also:

Procedures Menu

Transpose...

Allows you to change the pitch of one or more notes. It displays a Dialog where you set the number of **Semitones**, whether the notes will be transposed **Up** or **Down**, and the Scope of the change.

Change Velocity...

Allows you to change the velocity of one or more notes. It displays a Dialog where you set the **Amount** by which the notes will be changed, and the Scope of the change. You can change velocities **Up** or **Down** or set all velocities to a **Fixed** amount. Use the **Maximum** and **Minimum** settings to limit the change in velocity.

Change Lengths...

Allows you to change the length of one or more notes. It displays a Dialog where you set the amount by which the notes will be changed, and the Scope of the change.

The lengths may be changed in the following ways:

By Amount	Make notes Longer or Shorter by a definable number of ticks.
Make Legato	Change so there are no rests between the notes.
Remove Overlaps	Change so notes don't overlap.
Fixed Length	Make all notes the same length.

Quantize...

Allows you to change the start positions of one or more notes so they are more regularly placed. Notes move forward or backward depending on where the nearest beat or division of a beat is. A Dialog is displayed where you decide the **Quantize Setting** (16ths etc.), the **Percentage** by which the notes will be moved, and the Scope of the change.

The percentage setting allows notes to be lightly or heavily quantized. With a Quantize Setting of 16ths, a percentage of 50 will make notes move half way to the nearest 16th, while 100% will make them move all the way.

Move Events...

Allows you to change the start positions of one or more events. It displays a Dialog where you set the number of ticks by which the events will be changed (either **Forward** or **Back**).

Change Timing...

Allows you to change the time taken to play a group of events. It displays a Dialog where you set the **Percentage** of the original time for the events to be played in. For example, a setting of 50% will result in the notes being played in half the time, while 200% will make them play in double the time of the original. All types of event are affected, so a melody line with pitch bend will still sound right after having its timing changed - the relative positions of the notes and pitch bend data will be maintained.

Delete Events...

Allows you to delete one or more events. It displays a Dialog where you choose which types of events are to be deleted, and the Scope of the change (for Notes and Polyphonic Aftertouch).

If you are deleting Controllers, there are 128 of them to choose from, including Volume, Pan, Data Entry etc. Set the **Controller Scope** to be **All** or **Specific**. If deleting a specific Controller, use the combobox to choose the one you want to delete.

Thin Out Continuous Events...

Allows you to reduce the density of events such as Modulation, Pitch Bend, MIDI Volume. It displays a Dialog where you set the degree of thinning.

If you are thinning Controllers, there are 128 of them to choose from, including Volume, Pan, Data Entry etc. Set the **Controller Scope** to be **All** or **Specific**. If thinning a specific Controller, use the combobox to choose the one you want to thin out.

Special treatment is given to minimum and maximum values, and centre values for Pan and Pitch Bend. These are not removed, ensuring controllers can return to their default positions.

Procedures Menu

The Procedures Menu contains the following Menu Items:

Delete Identical Events

Reverse Notes

Extract Pattern

Merge Patterns

See also:

Options Menu

Delete Identical Events

Allows you to delete events which start at the same position and are identical in all respects.

When this is called from the Track Window only the selected pattern(s) will be treated. If you have not selected any patterns, all patterns on the selected track will be treated.

If you call it from an editing window (e.g. Piano Roll or Event) you can define which events are treated. If you select a number of events, only those events which are selected will be treated. If you have not selected any events, all events will be treated.

Reverse Notes

Allows you to change the start positions of a group of notes so they play in reverse order.

When this is called from the Track Window only the notes in the selected pattern(s) will be reversed. If you have not selected any patterns, the notes in all patterns on the selected track will be reversed.

If you call it from an editing window (e.g. Piano Roll or Event) you can define which notes are reversed. If you select a number of notes, only those notes which are selected will be reversed. If you have not selected any notes, all notes will be reversed.

Extract Pattern

If you have a pattern containing events on more than one MIDI channel, this function allows you to separate the events into individual patterns, each containing a single MIDI channel. The new patterns are allocated their own specially created tracks. The original pattern is not changed.

Merge Patterns

This function allows you to merge a number of selected patterns into one new pattern, which is given its own track. The original patterns are not changed.

Settings Menu

The MIDI Menu contains the following Menu Items:

Preferences...

Metronome...

Mixer...

Devices...

AudioSystem...

Wave Files in Use...

Preferences...

The **Copy Patterns as Parents** switch determines the type of pattern created when a pattern is copied. If this switch is turned off, copying a pattern results in a Child Pattern being created, which is denoted by a dotted border. A Parent Pattern has a solid border.

The **Chord Conflict Warning** switch determines whether a message is displayed when one or more MIDI Tracks is set to the same Port and Channel as the Chord Track. If the switch is turned on, this message is displayed each time you start playback or recording.

The **Timer Resolution** slider allow you to tell the Windows Multimedia Timer how to supply timing pulses to the program. It determines how many milliseconds will elapse between each timer pulse. The finest resolution is 1 ms.

On slower computers lower values will make the Windows Multimedia Timer use a lot of the PC's computing power, leaving little available for doing other things. Users with slower computers who experience unsteady playback will find it helpful to increase the Timer Resolution until playback is steady.

See also:

[Track Window.](#)

Metronome...

The Metronome Dialog allows you to tailor the Metronome to your requirements. You can have a beep from the PC speaker and / or a click played on an external MIDI instrument.

If you use the **MIDI** option you can determine separately the notes used by the first beat of the bar and by the other beats, plus their velocities.

If you turn on the **Record Only** switch the metronome operates during recording only. Turn this switch off if you want to hear the metronome during playback.

The **Count in Bars** setting defines how many bars of metronome clicks will be given before recording begins.

See also:

[Transport Window](#).

Mixer...

This Dialog contains the following switches:

Print track names under faders When turned on, the program checks the MIDI channels of the tracks and displays the name of a track under the matching mixer channel.

MIDI Input to mixer This allows you to decide whether messages arriving at MIDI In move the controls.

Song to mixer This lets you decide whether MIDI messages in the song are sent to the mixer controls - if it is turned on the knobs and faders move in real time as the song plays the corresponding MIDI messages. They also move when you relocate the Play Position - the Chase Events feature in the MIDI Settings Dialog which sends the current values of volume, pan etc. via MIDI also updates the positions of the mixer controls. If the Song to mixer switch is turned on part way through a song or MIDI File the controls update even if playback has been stopped.

Record mixer moves This switch enables recording of the movements of the knobs and faders. Other actions recorded are Flatten Mixer (flatten all the controls in the mixer), pressing a channel's Flat button (flatten all a channel's controls), and CONTROL clicking on an individual control to flatten it. When playing back a recording of mixer moves which contains more than one MIDI channel, it is best to set the track's channel to 0 (no rechannelization) so the same channels are played back. If only one MIDI channel was recorded the track's channel can be assigned to that channel or left at 0, whichever is preferred.

See also:

[Mixer Window](#).

Devices...

If your computer has any MIDI interfaces installed, they will show up in the Devices Dialog. You can choose which ones to use by clicking on their names. A device is in use if it is selected (white text on a black background). Note that **Inputs** and **Outputs** are treated separately, so you can, for example, turn off the MIDI Out on the MPU-401 but still use its MIDI In.

The devices in use will be shown in the various selectors used in other parts of the program, such as the Metronome Dialog and Track Columns.

Audio System...

If your computer contains a sound card capable of audio playback, you can configure it here.

The .WAV files are read direct from hard disk, so it is possible to play files of any length - you can play any file which can fit on the hard disk.

The Dialog contains the following:

Audio System On / Off This determines whether the audio system is active. Turning it off frees the wave audio driver so it can be used by another program. It also frees all memory used by the audio system.

Realtime Format Conversion If this switch is on, the program will convert the format of any wave file which does not match the current playback format. The necessary calculations are done in real time during playback. Conversions of quarter, half, double and quadruple speeds are possible. If you can still hear waves being played back at the wrong speed, choose a Playback Format which is closer to that of the files you are using.

Buffer Size This combobox allows you to decide how much of the PC's memory is used for buffering the audio data. In general, the slower your PC, the larger the buffer you will need. If you are using Realtime Format Conversion you will need more buffer memory. If you hear gaps in the playback of a wave file, try increasing the buffer size.

Playback Format The three sets of radio buttons allow you to set the format of your sound card to the format of the wave files you intend to use. The [Audio Pattern Settings](#) Dialog will tell you the format of any wave file. If your wave files are not all the same format, turn on Realtime Format Conversion so they will be replayed correctly.

Show Names in Patterns If this switch is on, the names of audio patterns are displayed in the Track Window.

Draw Waves in Patterns If this switch is on, the program will show a graphic representation of wave files inside the patterns.

Draw Waves in Dialogs If this switch is on, the program will show the wave file in the Audio Pattern Settings Dialog.

OK Pressing this button exits the dialog, and acts on the settings you have made.

Cancel Exits the dialog without acting on the settings you have made.

See also:

[Audio Pattern Settings](#).

Wave Files in use...

Displays a list of the .WAV files in use in the current song.

Window Menu

The Window Menu contains the following Menu Items:

- Cascade Windows
- Tile Windows
- Arrange Icons
- Close All
- Hide Transport
- Hide Editors
- Toggle Transport Caption
- Toggle Editors Caption

Cascade Windows

Overlaps all open windows but does not disturb the Transport or Editors Windows.

Tile Windows

Places all open windows side by side but does not disturb the Transport or Editors Windows.

Arrange Icons

Rearranges any icons (minimized windows) on the desktop, starting at the bottom left.

Close All

Closes all windows which are capable of being closed except the Track Window.

Hide Transport

Hides the Transport Window. When the Transport Window is hidden, it changes to [Show Transport](#).

Hide Editors

Hides the Editors Window. When the Editors Window is hidden, it changes to [Show Editors](#).

Toggle Transport Caption

If the Transport Window's caption bar is visible, it is removed. When it is not visible, it is replaced. Turning off the caption bar frees up a little screen space.

Toggle Editors Caption

If the Editors Window's caption bar is visible, it is removed. When it is not visible, it is replaced. Turning off the caption bar frees up a little screen space.

Help Menu

The Help Menu contains the following Menu Items:

Contents

Menus

Windows

Keyboard Shortcuts

How to Use Help

About Evolution Audio...

Memory Check...

How to Use Help

Displays the built-in information on using the MS Windows Help system.

About Evolution Audio...

Displays a Dialog with brief details about the program.

Memory Check...

Tells you how many Kilobytes of free memory are available in the system.

Transport Window

'Tape Recorder' Controls



Rewind is used to move the Play Position to an earlier one. If used during play, the new position will take effect when Rewind is released. If the right mouse button is used to press Rewind, the winding speed is three times as fast. If you are working in an editing window (e.g. Piano Roll, Event) winding speed is slower in order to give you finer control over the Play Position.



Similarly, **Fast Forward** is used to move to a later position.



Stop does just that - it stops playback or recording.



Play has two functions:

1. It starts playback when the sequencer is not running.
2. It punches out when recording is in progress - the sequencer keeps running but the record button returns to the off position and any recorded material is displayed.



Record has two functions:

1. It starts recording when the sequencer is not running. Recording is preceded by a count in (unless the number of count in bars is set to zero in the Metronome Dialog).
2. It punches in when playback is in progress - the sequencer keeps running but the play button returns to the off position. No count in is given in this instance - recording begins immediately.

Auto Return

This tells the program where to send the Play Position when the sequencer stops. There are three possible settings:

1. Off - the Play Position stays where it is.
2. Zero - the Play Position goes to the start of the song.
3. Last Start - the Play Position goes to the position from where playback last started.

Record Mode

Click to choose either Replace or Overdub.

Toggle Switches



Metronome - turns on the metronome click.



Cycle - makes playback and recording cycle between the locators.



Follow Position - makes each window display the current song position.



Conductor - makes playback obey the contents of the Conductor Window.



Edit Solo - plays only the contents of the current edit window.

Relocate Buttons



Return To Zero.



Go To End.

Display Formats

Position	bars:beats:ticks.
Time	hours:minutes:seconds:frames.
Left Locator	bars:beats:ticks. Click on the text 'Left Locator' to jump to its position.
Right Locator	bars:beats:ticks. Click on the text 'Right Locator' to jump to its position.
Tempo	beats per minute.
Time Signature	beats per bar / beat time.

See also:

[General Window Information](#), [Track Window](#), [Conductor Window](#), [Metronome](#).

Editors Window

The nine buttons each open a particular window. If that window is already open, it moves to the top of the pile. If it is minimized, it is restored.



1. Track



2. Piano Roll



3. Event



4. Score



5. Drum



6. Conductor



7. Notepad



8. Mixer



9. Keyboard

See also:

[General Window Information](#), [Keyboard Shortcuts](#).

Keyboard Window

The **Keyboard** has two uses:

- a) By clicking on it you can play notes.
- b) It shows notes arriving at MIDI In.

Toggle Switches



Single Finger Chord - when the **Active** switch is on, the chords are taken from the notes you play in the bottom octave of the keyboard instead of the Chord Sequencer. When **Synchro** is on, Single Finger Chord play will start as soon as you press a key in the bottom octave. When **Hold** is on the accompaniments will continue to play after all keys have been released - when it is off only the drums will play.

When you are playing Single Finger Chord from the external keyboard, the highest note in the bottom octave determines the chord root note. If you don't play any notes below it, the chord type is major (Maj), but if you hold down a black note the chord type is minor. Holding down a white note generates a 7th (7), while holding both a black and a white note plays a minor 7th (m7).

If you play the screen keyboard, the note the mouse clicks on defines the chord root, with the chord type being taken from whichever chord button is selected.



Play Mode Switches - determines how the keyboard responds when you play or click the keys with the mouse. In **Free** Play mode the keyboard acts like a normal keyboard. In **Drum** Play mode the keyboard generates drum sounds. **Playright** mode is designed to be used in conjunction with the accompaniments (from either the Chord Track or Single Finger Chord) - in this mode you can never play a wrong note - you can only Play Right! **Chord** Play mode generates chords from single key presses. The type of chord depends on which of the **Chord Buttons** is selected.



Sus Switch - turns sustain on and off by sending a MIDI Sustain message.

The **Octave** setting can be used to raise or lower the pitch of the notes generated when you play the keyboard with the mouse or from the external keyboard.

See also:

[Track Window](#).

Track Window



Zoom In - display fewer bars in the same space.



Zoom Out - display more bars in the same space.



Vertical Zoom In - reduce the height of tracks.



Vertical Zoom Out - increase the height of tracks.



Add a MIDI Track - add a MIDI track if any are free.



Add a Chord Track - add a Chord Track if one does not already exist.



Add an Audio Track - add an Audio Track if one does not already exist.

Selectors



This affects how MIDI and Audio patterns line up when you move them. For example, if it is set to 'Bar', they will 'snap' to the nearest bar.



This affects how chord patterns line up when you move them. For example, if it is set to '4', they will 'snap' to the nearest quarter note.

If you drag a group of patterns which includes a mixture of pattern types, the snap setting is determined by which pattern in the group you click on to start dragging.

Displays

Name	Prog	Ch	P	Vol	Rec	Midi
Drums	8	10	C	115	●	

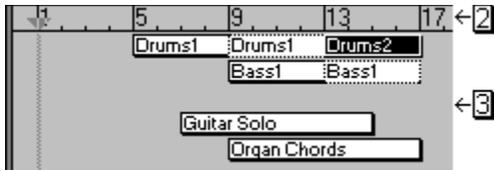
1. The **Track Display** shows the name of each track and various settings associated with it. You can choose which settings are visible by changing which Columns are visible. Click on any of the column headings and the Select Track Columns Dialog will be displayed. Here you can turn columns on and off as required.

To the right of the columns is the **Divider**. You can drag this left and right so that some or all of the columns are obscured by the Pattern Display.

Track settings can be changed directly with the mouse or in the Track Settings Dialog.

If you want to give a track a different name, double click on the name and the Track Settings Dialog is displayed. Here you can type the new name and change any of the settings which appear in the Track Columns.

If you click once on a track's name, you can move it up or down to a new position in the track list by dragging it with the mouse.



2. The **Timeline** shows the bars currently being displayed. The width of each bar depends on the Time Signature - this can change if there are Time Signature changes defined in the Conductor Window. If you click on the timeline with the left mouse button the left locator moves to the mouse position: use the right button to reposition the right locator. By clicking on the timeline while holding down the CONTROL key, the Play Position will jump to the mouse position.

3. The **Pattern Display** is where the patterns containing your recorded MIDI and audio data are displayed. They can be moved, copied, deleted or muted in order to change the structure of the composition. Double click on a pattern and the Pattern Settings Dialog is displayed. Here you can change the Pattern name and any other settings.

Chord Track Editing Controls

When the current song contains a chord track, the settings can be edited with the following controls:

The **Style Button** shows the name of the current style. Click on it to display a menu containing the names of all the styles.

When a Chord pattern is highlighted, the following controls are available:

Clicking on the **Chord** setting displays a menu of the 12 possible chord root notes.

Clicking on the **Type** setting displays a menu of the available chord types.



The **Mute Switches** control which parts of the accompaniment play in the highlighted chord.

Entering a Chord Sequence

To change the chord in an existing chord pattern, you first need to click on it. This highlights the bar and shows all settings associated with it in the Chord, Type and Mute Switch displays. To change the Chord (i.e. the root note), click on the Chord display and choose one of the 12 possible notes from the pop up menu. Similarly, the chord type can be changed by clicking on the Type display and choosing one of the 12 available types from the menu. If you double-click on a chord pattern, the Chord and Type menus are displayed automatically. To modify the arrangement in the pattern, use the 6 mute switches to enable playback of the required parts of the accompaniment.

Chord patterns can be added and copied just like any other patterns.

MIDI Patterns

There are two types of MIDI pattern: **Parent** and **Child**. A parent has a solid border, a child has a dotted border. A child pattern has no events of its own - it plays the events of its parent. It also has the same name so you can see which parent it belongs to - all other settings can be different from the parent, however. A child pattern is created when you copy a parent pattern (unless the 'Copy Patterns as Parents' switch is turned on in the Preferences Dialog). A child can be placed on the same or a different track from the parent. The illustration above shows a parent pattern, 'Drums1', which is followed by a child, so the same four bar drum pattern will play twice. If you were to change the parent in some way - transpose it for

example - the child would be affected too as it shares the same events. If you were to delete the parent, the child would become a parent.

Chord Patterns

There are two types of Chord pattern: **Parent** and **Child**. A parent has a solid border, a child has a dotted border. A child pattern has no settings - it plays the settings of its parent. A child pattern is created when you copy a parent pattern (unless the 'Copy Patterns as Parents' switch is turned on in the Preferences Dialog).

Audio Patterns

There are two types of audio pattern: **Parent** and **Child**. A parent has a solid border, a child has a dotted border. A child pattern uses the same .WAV file as its parent. It also has the same name so you can see which parent it belongs to - all other settings can be different from the parent, however. A child pattern is created when you copy a parent pattern (unless the 'Copy Patterns as Parents' switch is turned on in the Preferences Dialog). If you delete the parent, the child becomes a parent. The audio pattern settings are made in the Audio Pattern Settings Dialog.

Audio Pattern Settings Dialog

Name	The Pattern Name can contain up to 20 characters.
Wave File	This button contains the name and full path of the .WAV file. Pressing it calls up the file selector, where you can locate a wave file anywhere on the system.
Time	A timing offset which adds the specified number of clock ticks to the start of the pattern. A negative value will make the pattern start early, a positive one will make it start late.
Audition	Press this button to hear the wave file and any effects you have assigned. You will also hear the MIDI tracks to help you get the timing right.
Stop	Stops the audition playback.
Size and Format	Information about the wave file is displayed here. Use this information to set the Playback Format in the Audio System Dialog.
OK	This button exits the Dialog and keeps the changes you have made.
Cancel	Exits the Dialog and discards any changes you have made.

Track Settings

Name	Can contain up to 20 characters.
Prog	The MIDI Program Number.
Patch	Displays the name of the Patch corresponding to the current MIDI Program Number.
Bank	The MIDI Bank controller value, works in conjunction with the Program Number to select variations on a sound.
Ch	MIDI Channel. Values of 1 - 16 force all patterns on the track to play on the specified channel. A value of 0 will play the patterns on the channel(s) on which they were recorded.
P	Port - one of the MIDI Out ports installed in the PC.
Vol	MIDI Volume controller.
Pan	MIDI Pan controller.
Rev	MIDI Reverb Depth controller.
Chor	MIDI Chorus Depth controller.

Vel Velocity modifier - added to all velocities on the track as they are played. A negative value reduces velocity. Does not affect the contents of the patterns.
Tran Transpose offset - added to all notes on the track as they are played. A negative value lowers the pitch. Does not affect the contents of the patterns.
Time A timing offset. Adds the specified number of clock ticks to the events as they are played back. A negative value will make the events play early, a positive one will make them play late.

Track Buttons

Mute Prevents any MIDI data from being sent by a track.
Solo MIDI data will be sent from the soloed track ONLY. All other tracks are muted. You can still click on the mute buttons to turn muting off if you want to hear other tracks as well as the soloed one. When you click on a solo button, the statuses of all the mute buttons are stored, so that when solo is turned off the mute buttons return to their previous settings. If you then solo the SAME track the statuses of the mute buttons return to what they were when the track was soloed. If you solo a DIFFERENT track to last time, all mute buttons are turned on.
Rec Enables recording on a track. Incoming MIDI messages are rechanneled so they are sent from MIDI Out on the channel of the track whose Record button is turned on. If the channel is set to zero, the MIDI data is passed through unchanged.

Selecting Patterns

You can select patterns with either of these two methods:

1. Click on a pattern - it turns black to indicate selection. Click on another one and that becomes the selected pattern. If you hold SHIFT and click on a pattern you can toggle its status between selected and normal. By using SHIFT clicking you can select several patterns.
2. With the left mouse button click on a part of the Pattern Display where there isn't a pattern. Any selected patterns become deselected. While still holding down the left mouse button, drag down and to the right, enclosing patterns in the dotted 'drag rectangle' as you go. Release the mouse button. The patterns inside the drag rectangle become selected. This method is called lassoing.

Using the Edit, Options & Procedures functions

When using functions from the Edit, Options and Procedures menus, whether patterns are affected depends on their selection states. If you have selected one or more patterns, ONLY those patterns will be affected. If no patterns are selected, ALL patterns on the selected TRACK will be affected. One method of copying one or more patterns is to select them and use the Copy function (Edit Menu) to place a copy of them on the clipboard. You can then Paste them into the Pattern Display at the current Play Position.

Moving and Copying Patterns

Selected patterns can be moved and copied. Click on any one of them and drag to a new position then let go the mouse button. If you hold down the CONTROL key before you click, a copy of the patterns will be made at the new position, leaving the originals intact. The newly copied patterns then become the selected ones.

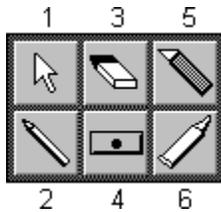
Local Menu Functions

Copy Track Makes a copy of the selected track including the patterns - the child / parent status is determined by the setting in the Preferences Dialog.
Delete Track Deletes the selected track and all the patterns on it.
Delete All Tracks Deletes all tracks and patterns.
Delete Unused Tracks Deletes all tracks which do not contain any patterns.
Pattern Dimensions... Displays a Dialog where you can type in new start and end positions for the selected pattern.

Insert Between Locators
Delete Between Locators

Inserts space between the Left and Right Locators.
Deletes everything between the Left and Right Locators.

Mouse Tools



To select a different mouse, hold down the right mouse button to bring up the **Mouse Tool Selector**. Move the mouse until the one you want is highlighted. Let go of the right mouse button - the selector disappears and the mouse cursor changes to the new shape.

1. The **Arrow** is at the top left so you can change back to it quickly - click the right button and release immediately - there's no need to drag.
2. The **Pencil** is used for drawing and sizing. You can draw in a new pattern or change the size of an existing one. To move the start position of a pattern click on the left half; to move the end of a pattern click on the right half. Drag the mouse to the required position and release the mouse button.
3. The **Eraser** is used to delete patterns. Click on a pattern with the eraser and it disappears. If you click on one of a group of selected patterns, all the selected patterns are deleted.
4. The **Mute** cursor is used to silence a pattern. Click on a pattern with the mute cursor and it turns grey to show it is muted. Click again and it changes back to normal.
5. The **Knife** is used to slice a pattern in two. The position you click on the pattern determines the end position of the first pattern and the start of the second one.
6. The **Glue** is used to join two patterns on the same track to create one new one which starts where the first pattern started and ends where the second one ended. Click anywhere on a pattern and it will be glued to the next pattern on the same track.

Undo & Redo

You can use the Undo function to reverse the effects of the last editing operation. You can then use the Redo function to reverse the effects of the Undo function.

See also:

[General Window Information](#), [Transport Window](#), [Conductor Window](#), [Audio System](#), [Preferences](#).

Piano Roll Window



Zoom In - display fewer bars in the same space.



Zoom Out - display more bars in the same space.



Vertical Zoom In - display fewer notes in the same space.



Vertical Zoom Out - display more notes in the same space.

Toggle Switches



Speaker Switch - enable sending of selected notes to MIDI Out.



MIDI Edit Switch - enable MIDI Input to edit selected note.



Step Switch - enable Step Time entry.

Buttons

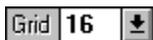


Close the window.

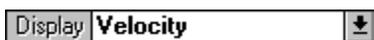


Restore the pattern's original contents.

Selectors



Determines the resolution of the Note Display. This value is also used as the note length in Step Time entry.



Determines which events are shown in the Velocity Display.

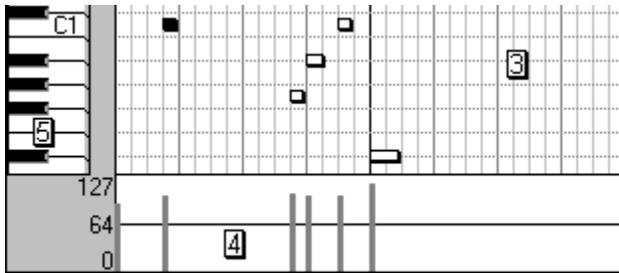
Displays



1. The **Timeline** shows the bars and beats currently being displayed. The number of beats per bar depends on the Time Signature - this can change if there are Time Signature changes defined in the Conductor Window. By clicking on the timeline while holding down the CONTROL key, the Play Position will jump to the mouse position.



2. The **Information Line** shows detailed information about a selected note. You can adjust these values with the mouse.



3. The **Note Display** is a grid where notes are shown as rectangles. The horizontal position indicates start time. The width of the rectangle shows the note length.

4. The **Velocity Display** can contain note velocities, aftertouch, controllers, channel pressure and pitch bend. You can edit them with the mouse. Each type of event is shown in a different colour: the colours are the same as those used in the Event Window.

5. The **Screen Keyboard**, at the left edge of the window, has four uses:

- a) It indicates the pitch of notes in the Note Display.
- b) By clicking on it you can play MIDI notes.
- c) You can use it to enter notes in step time.
- d) It shows notes arriving at MIDI In.

Selecting Notes

You can select notes with either of these two methods:

1. Click on a note - it turns black to indicate selection. Click on another one and that becomes the selected note. If you hold SHIFT and click on a note you can toggle its status between selected and normal. By using SHIFT clicking you can select several notes.

2. With the left mouse button click on a part of the Note Display where there isn't a note. Any selected notes become deselected. While still holding down the left mouse button, drag down and to the right, enclosing notes in the dotted 'drag rectangle' as you go. Release the mouse button. The notes inside the drag rectangle become selected. This method is called lassoing.

When one note is selected detailed information about it is given in the Information Line. You can use the Up and Down arrow keys to move selection to adjacent notes.

Selecting Events in the Velocity Display

Either of the above methods can be used, and the events turn black. If note velocity is being displayed you can select notes by selecting their velocities.

Using the Edit, Options & Procedures functions

When using functions from the Edit, Options and Procedures menus, whether events are affected depends on their selection states. If you have selected one or more events, ONLY those events will be affected. If no events are selected, ALL events will be affected. Remember though, that in the Options Menu functions the Scope setting may exclude some of them.

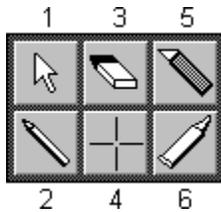
One method of copying one or more events is to select them and use the Copy function (Edit Menu) to place a copy of them on the clipboard. You can then Paste them into the pattern at the current Play Position.

Moving and Copying Events

Selected events can be moved and copied. Click on any one of them and drag to a new position then let go of the mouse button. If you hold down the CONTROL key before you click, a copy of the events will be

made at the new position, leaving the originals intact. The newly copied events then become the selected ones.

Mouse Tools



To select a different mouse, hold down the right mouse button to bring up the **Mouse Tool Selector**. Move the mouse until the one you want is highlighted. Let go of the right mouse button - the selector disappears and the mouse cursor changes to the new shape.

1. The **Arrow** is at the top left so you can change back to it quickly - click the right button and release immediately - there's no need to drag.

2. The **Pencil** is used for drawing and sizing. In the Note Display you can draw in a new note or change the size of an existing note. To move the start position of a note click on the left half; to move the end of a note click on the right half. Drag the mouse to the required position and release the mouse button.

You can also draw in the Velocity Display. If any event type except Velocity is chosen as the display type, you can use the pencil to draw in new data, a pitch bend curve, for example.

3. The **Eraser** is used to delete events. It works in both the Note and Velocity Displays. Click on an event with the eraser and it disappears. If you click on one of a group of selected events, all the selected events are deleted.

4. The **Crosshairs** cursor is used for modifying existing data in the Velocity Display. Hold down the left button and drag the mouse around - if the crosshairs move across any data it will change to a new value proportional to the height of the crosshairs in the display. You can use a single click to change a single value or drag the mouse right and left to reshape a controller curve. If Velocity is the display type you can create a crescendo by dragging the crosshairs left to right across the velocities, moving up the screen as you go.

5. The **Knife** is used to slice a note in two. The position you click on the note determines the end position of the first note and the start of the second one.

6. The **Glue** is used to join two notes of the same pitch to create one new note which starts where the first note started and ends where the second one ended. Click anywhere on a note and it will be glued to the next note of the same pitch.

Step Time Entry

The Step Switch must be in the ON position. Single notes and chords arriving at MIDI In are recorded at the current Play Position with a length determined by the Grid setting. When you release the notes on the MIDI keyboard the Play Position advances by the same amount. To advance the Play Position without entering a note, press the space bar.

You can also use the Screen Keyboard to enter notes -- click on one of the notes and a note of that pitch is recorded. The Play Position doesn't advance automatically, but stays in the same place to make it easy to enter successive notes of a chord. Press the space bar to advance the Play Position.

Undo & Redo

You can use the [Undo](#) function to reverse the effects of the last editing operation. You can then use the [Redo](#) function to reverse the effects of the Undo function.

Changing Pattern

You can change which pattern is being edited by clicking on a different one in the Track Window.

See also:

[General Window Information](#), [Event Window](#), [Conductor Window](#).

Event Window

Toggle Switches



Speaker Switch - enable sending of selected notes to MIDI Out.



MIDI Edit Switch - enable MIDI Input to edit selected note.



Step Switch - enable Step Time entry.

Buttons



Close the window.



Restore the pattern's original contents.



Insert an event of the type shown in the Ins Type selector.



Delete the selected event(s).



Make an identical copy of the selected event.

Selectors

Note Length **16** ▾

Note Length - used in conjunction with the Insert button and in Step Time entry.

Insert Type **Note** ▾

Choose the type of event to be added when the Insert button is pressed.

Note Aftersustain Controller Program Pressure Bend Sysex

Use the **Display Filters** to specify which event types are shown. In this example any Notes, Program Changes and Pitch Bend will be shown.

Position	Ch	Event	Key	Vel	Length
9:01:144	1	Note	C 1	101	42

The last three column headings change depending on what type of event is first in the list, or if any are selected, the type of the first selected event. In this example they are describing the Key, Velocity and Length of a note.

You can use the mouse to directly change the values in these columns, plus the event position.

Each type of event is shown in a different colour: the colours are the same as those used in the Piano Roll Window's Velocity Display.

During playback the left hand column shows a moving arrow which points to the events as they are played. If you click in this column while holding down the CONTROL key, the Play Position will jump to the

mouse position.

Selecting Events

You can select events with either of these two methods:

1. Click on an event's name - it turns black to indicate selection. Click on another one and that becomes the selected event. If you hold SHIFT and click on an event you can toggle its status between selected and normal. By using SHIFT clicking you can select several events.

2. Click on an event's name - any selected events become deselected. While still holding down the mouse button, drag up or down, selecting more events as you go. Release the mouse button when you have selected all you want.

To deselect all selected events, click in the left hand column.

Using the Edit, Options & Procedures Functions

When using functions from the Edit, Options and Procedures menus, whether events are affected depends on their selection states. If you have selected one or more events, ONLY those events will be affected. If no events are selected, ALL events will be affected. Remember though, that in the Options Menu functions the Scope setting may exclude some of them.

To copy one or more events select them and use the Copy function (Edit Menu) to place a copy of them on the clipboard. You can then Paste them into the pattern at the current Play Position.

System Exclusive Editor

This allows you to edit directly the contents of a System Exclusive message. You can move the text caret around and type in new values in hexadecimal. To call it up, double click on the name of a Sysex event.

Step Time Entry

The Step Switch must be in the ON position. Single notes and chords arriving at MIDI In are recorded at the current Play Position with a length determined by the Note Len setting. When you release the notes on the MIDI keyboard the Play Position advances by the same amount.

Undo & Redo

You can use the Undo function to reverse the effects of the last editing operation. You can then use the Redo function to reverse the effects of the Undo function.

Changing Pattern

You can change which pattern is being edited by clicking on a different one in the Track Window.

See also:

[General Window Information](#), [Piano Roll Window](#).

Notepad Window

This allows you to include textual information with each song. The contents of the notepad are saved in the song file and displayed automatically when a song is loaded.

When you type, word wrapping happens automatically, and you can use the Copy, Cut, Paste, Clear, and Undo functions from the Edit Menu. If you use Copy or Cut to place text on the clipboard, you won't lose any patterns or events already there.

See also:

[General Window Information.](#)

Mixer Window



The Mixer contains 16 channels, one for each MIDI Channel. Each channel contains a Flat button, a Volume slider, 3 knobs, 2 switches and a meter. All except the meter can transmit MIDI data to your sound card or external synthesizer. Click on a control and move the mouse up or down (there's no need to move the mouse when you click on a button or switch).

Not all sound cards and synthesizers support Reverb and Chorus.

Pressing the **Flat** switch sets all controls on that channel to their default positions. You can flatten a single knob or slider by clicking on it while holding the CONTROL key.

In addition to sending data via MIDI Out, the mixer can also respond to data arriving at MIDI In and to data contained in a song. The controls move in response to the same messages they are capable of sending, so the Volume faders move in response to MIDI Volume data and so on. You can decide how the mixer responds with switches in the [Mixer Settings](#) Dialog.



If you press the Snapshot button the positions of all the knobs and faders are sent via MIDI. If you are recording and the 'Record mixer moves' switch is turned on, these settings will be recorded. It is a good way of storing the settings for a song once you have set them up.



To flatten all channels, press the **Flatten Mixer** button.

See also:

[General Window Information](#).

General Window Information

Local Menu



Displays a pop-up menu containing functions relevant to that window.

Adjusting Values

The left and right mouse buttons are used to change the values displayed in a window as follows:

Left Button	-1
SHIFT + Left Button	-10 (-12 for notes = one octave)
Right Button	+1
SHIFT + Right Button	+10 (+12 for notes = one octave)

Holding down a mouse button causes the values to change repeatedly until the limit for that particular value is reached. To move quickly through the values without using the SHIFT key, hold down the opposite mouse button to the one you started with. For example, click on the left button to reduce a value in steps of 1. Without taking your finger off the left button, hold down the right button - the values will start to reduce in steps of 10 (12 for notes). Take your finger off the right button and the values revert to reducing in steps of 1.

Score Window

Toggle Switches



Speaker Switch - enable sending of selected notes to MIDI Out.



MIDI Edit Switch - enable MIDI Input to edit selected note.



Step Switch - enable Step Time entry.

Buttons



Close the window.



Restore the pattern's original contents.



Switches the Stave Display between Page Preview and Edit.

Selectors



Determines the shortest note and rest drawn in the Stave Display.



This value determines the shape of the Note cursor and is used in Step Time entry.

Displays



1. The **Information Line** shows detailed information about a selected note. You can adjust these values with the mouse.



To the right is a display of the pitch and position (bars:beats:ticks) of the mouse.



2. The **Stave Display** is where notes are shown on a stave. The clef can be changed in the Score Settings Dialog. If you click on an empty part of the Stave Display while holding down the CONTROL key, the Play Position will jump to the mouse position.

Selecting Notes

You can select notes with either of these two methods:

1. Click on a note - it turns red to indicate selection. Click on another one and that becomes the selected note. If you hold SHIFT and click on a note you can toggle its status between selected and normal. By using SHIFT clicking you can select several notes.

2. With the left mouse button click on a part of the Stave Display where there isn't a note. Any selected notes become deselected. While still holding down the left mouse button, drag down and to the right, enclosing notes in the dotted 'drag rectangle' as you go. Release the mouse button. The notes inside the drag rectangle become selected. This method is called lassoing. To continue lassoing notes in later bars, hold the mouse against the right edge of the window and the display will flow more notes into the lasso rectangle.

When one note is selected detailed information about it is given in the Information Line. You can use the Up and Down arrow keys to move selection to adjacent notes.

Using the Edit, Options & Procedures functions

When using functions from the Edit, Options and Procedures menus, whether events are affected depends on their selection states. If you have selected one or more events, ONLY those events will be affected. If no events are selected, ALL events will be affected. Remember though, that in the Options Menu functions the Scope setting may exclude some of them.

One method of copying one or more events is to select them and use the Copy function (Edit Menu) to place a copy of them on the clipboard. You can then Paste them into the pattern at the current Play Position.

Moving and Copying Notes

Selected notes can be moved and copied. Click on any one of them and drag to a new position then let go of the mouse button. If you hold down the CONTROL key before you click, a copy of the notes will be made at the new position, leaving the originals intact. The newly copied notes then become the selected ones.

Local Menu

Score Settings...

Displays the Score Settings Dialog.

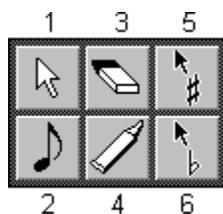
Print...

Displays a standard Windows Print Dialog.

Print Setup...

Displays a standard Windows Print Setup Dialog.

Mouse Tools



To select a different mouse, hold down the right mouse button to bring up the **Mouse Tool Selector**. Move the mouse until the one you want is highlighted. Let go of the right mouse button - the selector disappears and the mouse cursor changes to the new shape.

1. The **Arrow** is at the top left so you can change back to it quickly - click the right button and release immediately - there's no need to drag.

2. The **Note** cursor enters a note with a length specified by the Note Len combobox. The pitch and

position are calculated from where the mouse button clicks on the staff. These values are shown in the Information Line. The Note cursor can also be used to change the length of an existing note - the note's length changes to that of the cursor.

3. The **Eraser** is used to delete notes. Click on a note with the eraser and it disappears. If you click on one of a group of selected notes, all the selected notes are deleted.

4. The **Glue** is used to join two notes of the same pitch to create one new note which starts where the first note started and ends where the second one ended. Click on a note and it will be glued to the next note of the same pitch. This can also be thought of as a means to tie two notes.

5, 6. The **Sharp and Flat** cursors are used for modifying existing notes. One sharpens a note, the other flattens it. If the SHIFT key is held down the note changes by an octave, otherwise it changes by a semitone.

Step Time Entry

The Step Switch must be in the ON position. Single notes and chords arriving at MIDI In are recorded at the current Play Position with a length determined by the Note Len setting. When you release the notes on the MIDI keyboard the Play Position advances by the same amount. To advance the Play Position without entering a note, press the space bar.

Time and Key Signatures

Different time signatures can be displayed, allowing any changes in the Conductor Window to be acted upon when the score is displayed.

Automatic Clef Detection

On entry to the Score Window the program scans the pitches and works out the best clef to display the notes on. This also happens when you change pattern by clicking on a new one in the Track Window with the Score Window still open. It is not called at any other time, so it is still possible to change the clef in the Score Settings Dialog without the program changing it back. You can turn Automatic Clef Detection off.

Score Settings Dialog

Margins	(points from the edge of the screen / page)
Left, Right, Top, Bottom	
Spacing	(points)
Inter-note	the horizontal distance between notes / rests.
Inter-stave	the vertical distance between staves.
Text Sizes	(points)
Title	size of the font used for the song title printed at the top of the page.
Names + Bars	size of the font used for the patch name and bar number.
Clef	can be Treble (normal, 8va above, 8va below), Bass (normal, 8va above, 8va below), Treble and Bass.
T & B Split Point	the lowest note placed on the Treble

Detect Automatically Stave when using the Treble and Bass clef.
this switch turns Automatic Clef Detection off if required.

Detect Now this button tells the program to detect the clef immediately. The Stave Display updates if a different clef is calculated.

Printing

Print Page Numbers the page number will be printed at the foot of each printed page if this is turned on.

Maximum Staves this lets you limit the number of staves printed on each page.

Sloping Beams these switches turn this feature on or off as required.

Screen, Printer

Display Bar Numbers this switch turns on the numbering of bars and applies to both screen and printer.

Using the PC Keyboard

The keys 1 to 7 on the top row of the PC keyboard can be used to change the value in the Note Len combobox. The 'D', 'N' and 'T' keys select the dotted, normal or triplet version. If the Note cursor is in use, its shape changes.

Printing

The Print function can print anything which can be displayed on the screen. All settings in the Settings Dialog apply to printer output. Printing also obeys the settings in the Print Dialog - which pages to print, how many copies and whether copies are collated.

Printing can be aborted while the page is being sent to the printer. Press the Abort button to abort printing.

Page Preview

The Page / Edit switch toggles between Page Preview and the normal Edit display. The Page Preview display is a scaled version of what will appear on the printed page. The scale depends on the window size - on an 800x600 display a better display is possible than on a 640x480 display thanks to the extra display area available.



The Page number is printed and two arrow buttons are displayed to allow the page to be changed - the PgUp and PgDn keys operate these buttons as well as the mouse.

Undo & Redo

You can use the Undo function to reverse the effects of the last editing operation. You can then use the Redo function to reverse the effects of the Undo function.

Changing Pattern

You can change which pattern is being edited by clicking on a different one in the Track Window.

See also:

General Window Information, Conductor Window.

Drum Window



Zoom In - display fewer bars in the same space.



Zoom Out - display more bars in the same space.

Toggle Switches



Speaker Switch - enable sending of selected hits to MIDI Out.



MIDI Edit Switch - enable MIDI Input to edit selected hit.



Step Switch - enable Step Time entry.

Buttons



Close the window.



Restore the pattern's original contents.

Selector



Determines the resolution of the Hit Display. This value is also used as the step advance amount in Step Time entry.

Displays

Name	Ch	Key	Vel	Len
Bass Drum 1	10	C 1	127	48
Side Stick	10	C#1	127	48
Acoustic Snare	10	D 1	127	48

1. The **Drum Display** shows the name of each drum and various settings associated with it. You can choose which settings are visible by changing which Columns are visible. Click on any of the column headings and the Select Drum Columns Dialog will be displayed. Here you can turn columns on and off as required.

To the right of the columns is the **Divider**. You can drag this left and right so that some or all of the columns are obscured by the Hit Display.



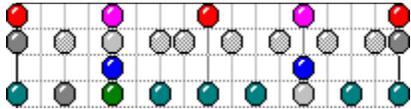
2. The **Timeline** shows the bars and beats currently being displayed. The number of beats per bar depends on the Time Signature - this can change if there are Time Signature changes defined in the Conductor Window. By clicking on the timeline while holding down the CONTROL key, the Play Position will jump to the mouse position.



3. The **Information Line** shows detailed information about a selected hit. You can adjust these values with the mouse.

Kit **General MIDI**

To the right is the name of the current Kit. When the program loads, the GM.DRM Drum Kit file loads automatically. This contains the General MIDI Kit.



4. The **Hit Display** is a grid where notes are shown as coloured LEDs - based on the drum machine layout of a row of LEDs which indicate hits. Here, however, different colours are used to indicate velocity. The possible colours are: Red, Purple, Blue, Green, Dark Cyan, Dark Grey, Grey, Light Grey. If a hit is Red, it is at or above the Velocity setting for that drum. If it is Purple, it is at or above 10 below the Velocity setting. Each colour change represents a further reduction of 10.

Drum Settings

- Name** Can contain up to 20 characters.
- Ch** MIDI Channel.
- Key** MIDI Note associated with this drum.
- Vel** MIDI Velocity of hits when entered with the large Drum Stick.
- Len** The length in ticks of the note created when a hit is entered.

Drum settings can be changed directly with the mouse or in the Drum Settings Dialog. If you want to give a drum a different Name, double click on it and the Drum Settings Dialog is displayed. Here you can type the new Name and change any of the settings which appear in the Drum Columns. You can also rename the Kit. When you change the Key or Channel of a drum, a warning is given if that Key-Channel combination is already in use by another drum. It is possible to define a Kit which uses all 16 Channels, and with the same Key used on different Channels e.g. E1 used on Ch10 and Ch11 to play Snare Drums on two different patches.

If you decide to use more than one Channel (in case more than one synth or synth patch is being used for drum sounds), set the channel of the track containing the drum patterns to 0 so no rechannelization occurs when MIDI is sent.

If you click once on a drum's Name, you can move it up or down to a new position by dragging it with the mouse. This makes it possible to change the order of the drums to put them in a preferred order, e.g. to put all the Toms together.

Drum Buttons

- Mute** Prevents any MIDI data from being sent by a drum.
- Solo** MIDI data will be sent from the soloed drum ONLY. All other drums are muted. You can still click on the drum buttons to turn muting off if you want to hear other drums as well as the soloed one. When you click on a solo button, the statuses of all the mute buttons are stored, so that when solo is turned off the mute buttons return to their previous settings. If you then solo the SAME drum the statuses of the mute buttons return to what they were when the drum was soloed. If you solo a DIFFERENT drum to last time, all mute buttons are turned on.

Selecting Drum Hits

You can select hits with either of these two methods:

1. Click on a hit - it turns black to indicate selection. Click on another one and that becomes the

selected hit. If you hold SHIFT and click on a hit you can toggle its status between selected and normal. By using SHIFT clicking you can select several hits.

2. With the left mouse button click on a part of the Hit Display where there isn't a hit. Any selected hits become deselected. While still holding down the left mouse button, drag down and to the right, enclosing hits in the dotted 'drag rectangle' as you go. Release the mouse button. The hits inside the drag rectangle become selected. This method is called lassoing.

When one hit is selected detailed information about it is given in the Information Line. You can use the Up and Down arrow keys to move selection to adjacent hits.

Using the Edit, Options & Procedures functions

When using functions from the Edit, Options and Procedures menus, whether hits are affected depends on their selection states. If you have selected one or more hits, ONLY those events will be affected. If no hits are selected, ALL hits will be affected. Remember though, that in the Options Menu functions the Scope setting may exclude some of them.

One method of copying one or more hits is to select them and use the Copy function (Edit Menu) to place a copy of them on the clipboard. You can then Paste them into the pattern at the current Play Position.

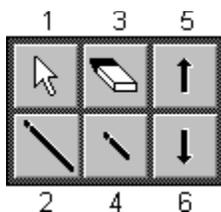
Moving and Copying Drum Hits

Selected hits can be moved and copied. Click on any one of them and drag to a new position then let go of the mouse button. If you hold down the CONTROL key before you click, a copy of the hits will be made at the new position, leaving the originals intact. The newly copied hits then become the selected ones.

Local Menu Functions

Add Drum	Adds a new drum at the bottom of the list.
Delete Drum	Deletes the selected drum from the list.
Delete All Drums	Deletes all drums in the list.

Mouse Tools



To select a different mouse, hold down the right mouse button to bring up the **Mouse Tool Selector**. Move the mouse until the one you want is highlighted. Let go of the right mouse button - the selector disappears and the mouse cursor changes to the new shape.

1. The **Arrow** is at the top left so you can change back to it quickly - click the right button and release immediately - there's no need to drag.

2 & 4. The **Drum Sticks** are used to enter new hits. The large stick enters a hit at the Velocity setting for that drum. The small stick enters a hit at a velocity 10 less than the Velocity setting. These two sticks therefore allow the entry of two levels of velocity, which can be regarded as normal and accented hits. If a stick clicks on an existing hit, it changes that hit's velocity.

3. The **Eraser** is used to delete hits. Click on a hit with the eraser and it disappears. If you click on one of a group of selected hits, all the selected hits are deleted.

5 & 6. **Velocity Modifiers** - The Up arrow increases the velocity of a hit by 10. This would make a purple hit red. The Down arrow decreases the velocity of a hit by 10. This would make a purple hit blue.

Step Time Entry

The Step Switch must be in the ON position. Notes arriving at MIDI In are recorded at the current Play Position with a length determined by the Grid setting. When you release the notes on the MIDI keyboard the Play Position advances by the same amount. To advance the Play Position without entering a note, press the space bar.

Using the PC Keyboard

The top row of keys on the computer keyboard can be used to play drums. The key on the far left plays the selected drum (the one whose name is highlighted) and the next one plays the drum below and so on. This makes it possible to play any set of drums simply by changing which drum is selected.

You can also use the keys in step time entry. The Play Position doesn't advance automatically, but stays in the same place to make it easy to enter successive hits at the same position. Press the space bar to advance the Play Position.

The Note and Velocity of a selected hit can be changed by MIDI input or the keys.

Undo & Redo

You can use the Undo function to reverse the effects of the last editing operation. You can then use the Redo function to reverse the effects of the Undo function.

Changing Pattern

You can change which pattern is being edited by clicking on a different one in the Track Window.

See also:

[General Window Information](#), [Conductor Window](#).

Conductor Window



Zoom In - display fewer bars in the same space.



Zoom Out - display more bars in the same space.

Button



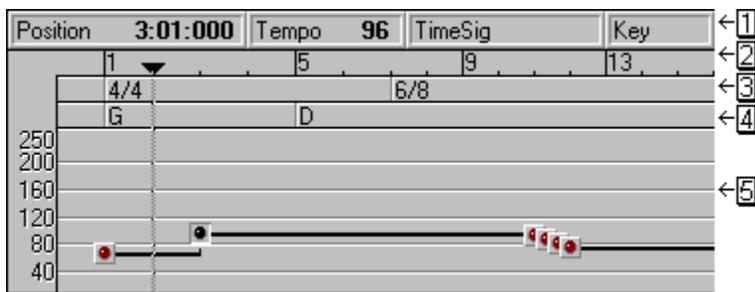
Close the window.

Selector



This affects how Conductor Points line up when you move them. For example, if it is set to 'Bar', they will 'snap' to the nearest bar.

Displays



1. The **Information Line** shows detailed information about a selected point. You can adjust these values with the mouse.

2. The **Timeline** shows the bars and beats currently being displayed. The width of each bar depends on the Time Signature - this can change if there are Time Signature changes defined in the Time Signature Display. By clicking on the timeline while holding down the CONTROL key, the Play Position will jump to the mouse position.

3. The **Time Signature Display** is where Time Signature Points are shown. The horizontal position indicates time.

4. The **Key Signature Display** is where Key Signature Points are shown. The horizontal position indicates time.

5. The **Tempo Display** is where Tempo Points are shown. The horizontal position indicates time. The vertical position indicates tempo - the higher the point, the faster the tempo.

Selecting Conductor Points

You can select points in any one of the three displays with either of these two methods:

1. Click on a point - it changes colour to indicate selection. Click on another one and that becomes the selected point. If you hold SHIFT and click on a point you can toggle its status between selected and normal. By using SHIFT clicking you can select several points.

2. With the left mouse button click on a part of the display where there isn't a point. Any selected points become deselected. While still holding down the left mouse button, drag down and to the right, enclosing points in the dotted 'drag rectangle' as you go. Release the mouse button. The points inside the drag rectangle become selected. This method is called lassoing.

When one point is selected, detailed information about it is given in the Information Line. You can use the Up and Down arrow keys to move selection to adjacent points.

Using the Edit functions

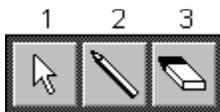
When using functions from the Edit menu, whether points are affected depends on their selection states. If you have selected one or more points, those points will be affected. If no points are selected, none will be affected.

One method of copying one or more points is to select them and use the Copy function to place a copy of them on the clipboard. You can then Paste them into the display at the current Play Position.

Moving and Copying Conductor Points

Selected points can be moved and copied. Click on any one of the group and drag to a new position then let go of the mouse button. If you hold down the CONTROL key before you click, a copy of the points will be made at the new position, leaving the originals intact. The newly copied points then become the selected ones. Time and Key Signature Points can be dragged horizontally only. The first Tempo Point can only be dragged vertically to make sure it stays at position 1:01:000. The first Time and Key Signature Points cannot be dragged at all for the same reason.

Mouse Tools



To select a different mouse, hold down the right mouse button to bring up the **Mouse Tool Selector**. Move the mouse until the one you want is highlighted. Let go of the right mouse button - the selector disappears and the mouse cursor changes to the new shape.

1. The **Arrow** is at the top left so you can change back to it quickly - click the right button and release immediately - there's no need to drag.

2. The **Pencil** is used for entering new points. Click in the Time Signature, Key Signature or Tempo Displays and a new point is added. A warning message is displayed if there is already a point at that position. Time Signatures must be entered on bar lines in order to make musical sense. When you enter a Time Signature, it will be 4/4. If you need to change this, click on it to select it, then change its value in the Information Line with the left and right mouse buttons. Similarly, a Key Signature starts off as C, so click on it and change it in the Information Line to the signature you require.

3. The **Eraser** is used to delete points. Click on a point with the eraser and it disappears. If you click on one of a group of selected points, all the selected points are deleted. The first entry in each display cannot be deleted - in order to make musical sense the Conductor must contain an initial Tempo, Time Signature and Key Signature.

Playback

During playback the Transport Window shows the changing Tempo and Time Signatures providing the Conductor Switch is turned on.

Undo & Redo

You can use the [Undo](#) function to reverse the effects of the last editing operation. You can then use the [Redo](#) function to reverse the effects of the Undo function.

See also:

[General Window Information](#), [Transport Window](#).

Keyboard Shortcuts

Action	Key(s)
Return to Zero	Home
Go to end of last pattern	End
Metronome On / Off	M
Cycle On / Off	C
Follow On / Off	F
Conductor On / Off	O
Edit Solo On / Off	E
Rewind	Left Arrow
Forward	Right Arrow
Stop (+ Enter a Rest in Step Time entry)	Space
Play	Return / Enter
Record	+
Jump to Left Locator	L
Jump to Right Locator	R
Quantize directly (using current settings)	Q
Next Page (Score Page Preview)	Pg Up
Previous Page (Score Page Preview)	Pg Dn
Change Note Len Setting (Score Window)	1 to 7, D, T, N
Play Drum Sounds (Drum Window)	All keys on the top row
Display Track Window	F2
Display Piano Roll Window	F3
Display Event Window	F4
Display Score Window	F5
Display Drum Window	F6
Display Conductor Window	F7
Display Notepad Window	F8
Display Mixer Window	F9
Activate Menu Bar	F10
Display Keyboard Window	F11
Go to next event (Edit Windows)	Down Arrow
Go to previous event (Edit Windows)	Up Arrow
Insert Event (Event)	Insert
Delete / Clear	Delete
Undo	Alt + Backspace or Ctrl + Z
Redo	Shift + Alt + Backspace
Copy	Ctrl + Insert or Ctrl + C
Paste	Shift + Insert or Ctrl + V
Cut	Shift + Delete or Ctrl + X
Open	Ctrl + O
Save Song	Ctrl + S
Transpose	Ctrl + T
Change Velocity	Ctrl + H
Change Lengths	Ctrl + L
Quantize	Ctrl + U
Move Events	Ctrl + J
Change Timing	Ctrl + I

Delete Events	Ctrl + D
Thin Out Continuous Events	Ctrl + N

Cascade Windows	Shift + F5
Tile Windows	Shift + F4
Close a Window	Ctrl + F4
Next Window	Ctrl + F6

Menu Items

Each Menu contains a number of items used to access various functions. Each item may act directly or call up a Dialog Box. Menu Items which are followed by three dots (...) call up a Dialog Box. Others act directly.

Clipboard

An area of computer memory used for temporary storage of data.

Scope

The Scope setting allows you to restrict the range of notes which will be treated. For example you may want to change only notes From G 2 To C 4. The values are inclusive, so in this example G 2 and C 4 would be treated as well as all notes between. Alternatively you can choose to treat All notes.

If you call the Options menu function (Transpose etc.) from an editing window (e.g. Piano Roll or Event) you can define scope more precisely. If you select one or more notes, only those notes which are selected will be treated. This overrides the Scope setting, and the Scope controls in the Dialog are disabled. However, if you have not selected any notes, the Scope setting acts just as if you had called it from the Track Window.

