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**Version 1.30 Addendum**

**AKAI**  
**professional**

## **User Guide**

### **WARNING**

To prevent fire or shock hazard,  
do not expose this appliance to  
rain or moisture.

## MPC4000 V1.30 Addendum

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## Q-Link SETUP changes

The Q-Link SETUP mode has been changed to support the MIDI Key-based Controller Messages and to improve the operation in recording of Q-Link movement into the sequence. The operation of [ACTIVE] key in Q-Link section has also been changed.

The KNOB [F1] page and SLIDER [F2] page in Q-Link SETUP mode, which is accessed by pressing [SETUP] key in Q-Link section, have been removed and replaced with the RECEIVE [F1] and SEND [F2] pages respectively.

By separating the Q-Link knob/slider setups into the send and receive pages independently, it is now possible to record the operation of knobs/sliders more simply.

### RECEIVE page

Multi:Multi 1	
PART:ALL @ 1 Assian:LEVEL Type:REPLACE Range:-100▶+100 Ctrl:OFF Midi= 1A	FX:1 @ 2 Assian:WetIDry Type:REPLACE Range:-100▶+100 Ctrl:OFF Midi= 1A
PART:ALL @ 3 Assian:LEVEL Type:REPLACE Range:-100▶+100 Ctrl:OFF Midi= 1A	FX:1 @ 4 Assian:WetIDry Type:REPLACE Range:-100▶+100 Ctrl:OFF Midi= 1A
PART:ALL @ 5 Assian:LEVEL Type:REPLACE Range:-100▶+100 Ctrl:OFF Midi= 1A	FX:1 @ 6 Assian:WetIDry Type:REPLACE Range:-100▶+100 Ctrl:OFF Midi= 1A
◀RECEIVE ▶SEND RES ALL RESET	

In RECEIVE page, the setups related to the Q-Link reception is made. Although the setting method of each field is similar to that of V1.2, it now sets up which parameter to be controlled when the Q-link knob/slider is operated or when the Q-Link information recorded in the sequence track is played back.

### SEND page

Multi:Multi 1	
Transmit:Q EVENT @ 1	Transmit:OFF @ 2
Transmit:CTRL CHANGE @ 3 Ctrl:119 Range: 0▶ 127	Transmit:OFF @ 4
Transmit:KEY BASED @ 5 Note: 37/C#1 Assian:VOLUME Range: 0▶16383	Transmit:OFF @ 6
◀RECEIVE ▶SEND RESET ALL CTRL	

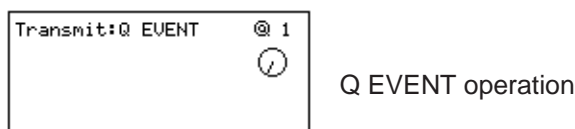
In SEND page, it sets the information sent when the Q-Link knob/slider is operated.

## Transmit field

In the 'Transmit' field of SEND [F2] page, you can select the information to be sent when using the Q-Link knob/slider.

OFF	No information is sent out even if the Q-Link knob/slider is operated.
Q EVENT	<p>When the Q-Link knob/slider is operated, the information will be sent out as Q EVENT 1-6 operation.</p> <p>Select this option, to control the parameter set in RECEIVE [F1] page using the Q-Link knob/slider.</p> <p>Although the Q EVENT can be recorded into the track, since it is always sent out to the internal sound module as a special event, it can be recorded/played back without worrying the setups of the MIDI channel setting, etc. of the selected track.</p>
CTRL CHANGE	<p>When the Q-Link knob/slider is operated, the Control Change information as set in SEND [F2] page will be sent out.</p> <p>Select this option to control the external devices, etc., using the Q-Link knob/slider.</p> <p>The destination of Control Change and/or the MIDI channel is set as according to the track selected.</p> <p>When RESET ALL CTRL [F5/F6] key in SEND [F2] page is pressed, the Reset All Controllers message will be sent out according to the setting in the 'Out' field of the track. When it is sent out to the internal sound module, its PITCH BEND, CONTROL CHANGE, and KEY BASED CONTROL will be reset.</p>
KEY BASED	<p>When the Q-Link knob/slider is operated, the Key Based Controller information to the note specified in SEND [F2] page will be sent out.</p> <p>Select this option to control the specific note sound, since the Key Based Controller can control the Volume, Pitch, Pan, AmpEnvRelease, AmpEnvAttack, AmpEnvDecay, Resonance, Cutoff, and LFO1Depth of any note in the drum program.</p> <p>The destination of Key Based Controller and/or the MIDI channel is set as according to the track selected.</p> <p>When RESET ALL CTRL [F5/F6] key in SEND [F2] page is pressed, the Reset All Controllers message will be sent out according to the setting in the 'Out' field of the track. When it is sent out to the internal sound module, its PITCH BEND, CONTROL CHANGE, and KEY BASED CONTROL will be reset.</p>

**Note:** It is not possible to use KEY BASED option for the keygroup programs.



## ■Controlling internal sound module using Q-Link

1. Select Q EVENT at 'Transmit' field of SEND [F2] page in Q-Link SETUP mode.
2. Set the parameter of the Part/Effect you want to control on RECEIVE [F1] page in Q-Link SETUP mode.

## ■Recording Q-Link operation as Q EVENT onto Track

1. After the settings above, when the Q-Link knob/slider is operated while sequence is in OVER DUB recording, its operation is recorded as Q EVENT onto the track.
2. When the sequence is played back, the recorded Q EVENT is played back.

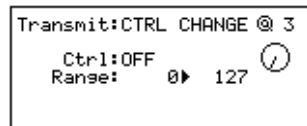
\* Since the Q EVENT is always sent out to the internal sound module as a special event, it can be recorded/played back without worrying the setups of the MIDI channel setting, etc. of the selected track.

## Operation of ACTIVE key when Q EVENT is selected

The On/Off operation of [ACTIVE] key changes while in sequence play and in overdubbing.

- ◆ In Sequence play, [ACTIVE] key is Off  
When the knob/slider is operated, it controls the internal sound module in real time.  
When the Q EVENT of currently operated knob/slider is recorded onto the track, it will be played back overlapped.
- ◆ In Sequence play, [ACTIVE] key is On  
When the knob/slider is operated, it controls the internal sound module in real time.  
Even if the Q EVENT of currently operated knob/slider is recorded onto the track, it will not be played back while [ACTIVE] key is on.
- ◆ In Overdubbing, [ACTIVE] key is Off  
When the knob/slider is operated, it is recorded as Q EVENT onto the selected track.  
When the Q EVENT of currently operated knob/slider is recorded onto the track, it will be recorded overlapped.
- ◆ In Overdubbing, [ACTIVE] key is On  
The position of Q-Link knob/slider at the time [ACTIVE] key is pressed is recorded as Q EVENT onto the selected track, and the existing Q EVENT recorded will be overwritten by the operation of the knob/slider thereafter.  
Even if the Q EVENT of currently operated knob/slider is recorded onto the other tracks, it will not be played back while [ACTIVE] key is on.

\* With the Q EVENT of Q1 recorded on Track1, when you try to record the Q EVENT of Q1 onto Track2, the Q EVENT on Track1 will be replaced by the operation of Q1 while [ACTIVE] key is off. However, when the tracks are played back with [ACTIVE] key turned on, the Q EVENT recorded on Track1 and Track2 will be played back overlapped. Since the similar situation occurs with CTRL CHANGE/KEY BASED options, it is recommended to use the specific track for event recording for easier management.



CTRL CHANGE Operation

## CTRL CHANGE

When CTRL CHANGE is selected at 'Transmit' field, the following fields appear.

Ctrl field	Sets the Control Change number sent out in the range of OFF and between 0 and 119.
Range field	Sets the Control Change in the range between 0 and 127.

### ■Controlling MIDI channels using Q-Link

1. Select CTRL CHANGE at 'Transmit' field of SEND [F2] page in Q-Link SETUP mode and set the Control Change to send at 'Ctrl' field and its range at 'Range' field.

\* The destination of Control Change and/or the MIDI channel is set as according to the track selected.

### ■Recording Q-Link operation as Control Change onto Track

1. After the settings above, when the Q-Link knob/slider is operated while sequence is in OVER DUB recording, its operation is recorded as Control Change message onto the track.
2. When the sequence is played back, the recorded Control Change message is played back.

## Operation of ACTIVE key when CTRL CHANGE is selected

The On/Off operation of [ACTIVE] key changes while in sequence play and in overdubbing.

### ◆In Sequence play, [ACTIVE] key is Off

When the knob/slider is operated, it sends out the Control Change message.

When the Control Change message of the same number and MIDI channel is recorded onto the track, it will be played back overlapped.

### ◆In Sequence play, [ACTIVE] key is On

When the knob/slider is operated, it sends out the Control Change message.

Even if the Control Change message of the same number and MIDI channel is recorded onto the track, it will not be played back while [ACTIVE] key is on.

### ◆In Overdubbing, [ACTIVE] key is Off

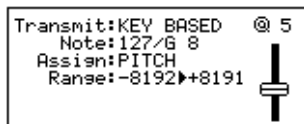
When the knob/slider is operated, it is recorded as Control Change message onto the selected track.

When the Control Change message of the same number and MIDI channel is recorded onto the track, it will be recorded overlapped.

### ◆In Overdubbing, [ACTIVE] key is On

The position of Q-Link knob/slider at the time [ACTIVE] key is pressed is recorded as Control Change message onto the selected track, and the existing Control Change messages recorded will be overwritten by the operation of the knob/slider thereafter.

Even if the Control Change message of the same number and MIDI channel is recorded onto the other tracks, it will not be played back while [ACTIVE] key is on.



KEY BASED operation

## KEY BASED

When KEY BASED is selected at 'Transmit' field, the following fields appear.

Note field	Sets the note to control in the range between 0 (C-2) and 127 (G8).
Assign field	Sets the control parameter from VOLUME, PITCH, PAN, RELEASE, ATTACK, DECAY, RESONANCE, CUTOFF, and LFO DEPTH.
Range field	Sets the Key Base Controller range in the ranges between 0 and 16383 for Volume, between -8192 and +8191 for Pitch, and between 0 and 127 for all other controllers.

\* When the PITCH is selected, the maximum range of 4 octaves can be controlled according to the value set at 'Bend up/Bend down' field on the MISC. [F3] page in PROGRAM mode.

### ■ Controlling notes using Q-Link

1. Select KEY BASED at 'Transmit' field of SEND [F2] page in Q-Link SETUP mode and set the note to control at 'Note' field, its control parameter at 'Assign' field and its range at 'Range' field.

\* The destination of Key Based Controller and/or the MIDI channel is set as according to the track selected.

### ■ Recording Q-Link operation as KEY BASED onto Track

1. After the settings above, when the Q-Link knob/slider is operated while sequence is in OVER DUB recording, its operation is recorded as Key Based Controller onto the track.
2. When the sequence is played back, the recorded Key Based Controller is played back.

## Operation of ACTIVE key when KEY BASED is selected

The On/Off operation of [ACTIVE] key changes while in sequence play and in overdubbing.

- ◆ In Sequence play, [ACTIVE] key is Off  
When the knob/slider is operated, it sends out the Key Based Controller.  
When the Key Based Controller of the same note, controller and MIDI channel is recorded onto the track, it will be played back overlapped.
- ◆ In Sequence play, [ACTIVE] key is On  
When the knob/slider is operated, it sends out the Key Based Controller.  
Even if the Key Based Controller of the same note, controller and MIDI channel is recorded onto the track, it will not be played back while [ACTIVE] key is on.
- ◆ In Overdubbing, [ACTIVE] key is Off  
When the knob/slider is operated, it is recorded as Key Based Controller onto the selected track.  
When the Key Based Controller of the same note, controller and MIDI channel is recorded onto the track, it will be recorded overlapped.
- ◆ In Overdubbing, [ACTIVE] key is On  
The position of Q-Link knob/slider at the time [ACTIVE] key is pressed is recorded as Key Based Controller onto the selected track, and the existing Key Based Controllers recorded will be overwritten by the operation of the knob/slider thereafter.  
Even if the Key Based Controller of the same note, control and MIDI channel is recorded onto the other tracks, it will not be played back while [ACTIVE] key is on.

## Q EVENT editing

In STEP EDIT mode, Q EVENT can be edited as in the same way as Control Change messages, etc. In the list, it appears in the order of event name, Q-Link number and value, as "Q-LINK: 1: Value: 1023". In STEP EDIT mode, Q EVENT can also be edited as in the same way as Control Change messages, etc. and is indicated as in the range between 0 and 1023.

```
001.01.480   Q-LINK: 1:Value:1023
001.01.481 ----- End of sequence -----
```

In STEP EDIT mode/SEQ EDIT mode, the Q-LINK EVENT option has been added for 'View' field. When Q-LINK EVENT is selected at 'View' field, only the Q EVENT can be displayed and edited. In addition, when the value between 1 and 6 is selected at 'Q' field, only those Q EVENT concerned will be displayed.

```
View:Q-LINK EVENT      Q:ALL      Midi ch:ALL
```

## KEY BASED editing

In STEP EDIT mode, KEY BASED can be edited as in the same way as Control Change messages, etc. In the list, it appears in the order of note number, pad number (note name), controller name and value, as "37/A01: VOLUME: 16256". sages, etc. and is indicated as in the ranges between 0 and 16383 for VOLUME, between -8192 and +8191 for PITCH, and between 0 and 127 for all other controllers.

```
001.01.480   40/A05 :VOLUME : 1101
001.01.481 ----- End of sequence -----
```

In STEP EDIT mode/SEQ EDIT mode, the KEY BASED option has been added for 'View' field. Although Key Based Controller is the MIDI System Exclusive message, it can be edited easily since it is indicated as an independent event when entered using Q-Link knob/slider. When the value between 0 (C-2) and 127 (G8) is selected at 'Note' field, only that note concerned will be displayed and when the VOLUME, PITCH, PAN, RELEASE, ATTACK, DECAY, RESONANCE, CUTOFF, or LFO DEPTH is selected at 'Assign' field, only that Controller concerned will be displayed.

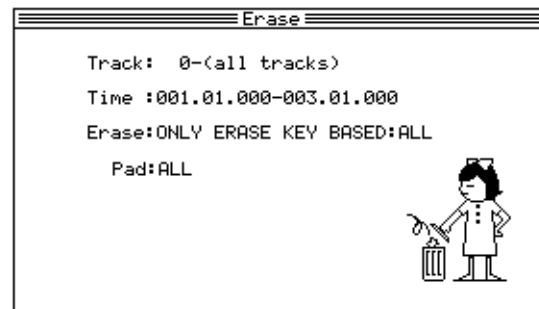
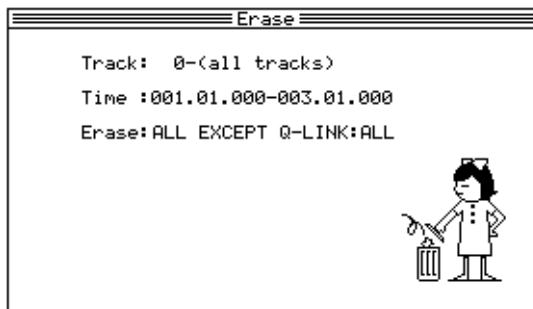
```
View:KEY BASED      :ALL      :ALL      Midi ch:ALL
```



## ERASE pop-up window changes

When ALL EXCEPT or ONLY ERASE options is selected at 'Erase' field in the Erase pop-up window, which is opened by pressing [ERASE] key, the Q-LINK and KEY BASED options have been added for the event field on the right side.

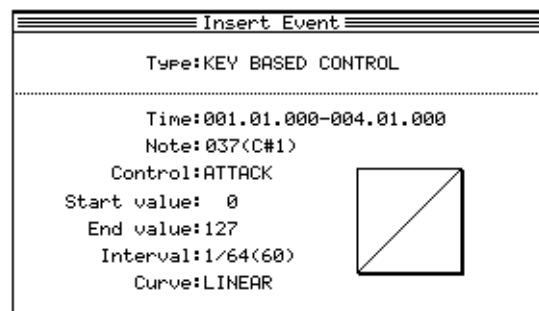
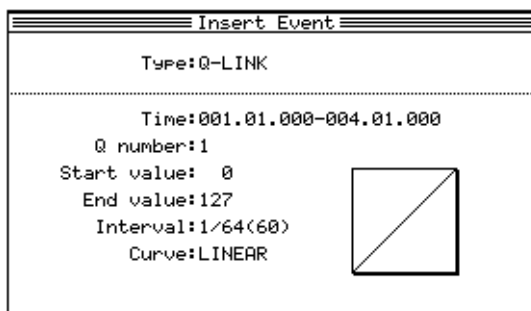
- |           |                                                                                                                                                                                                                                                                                                                                                                         |
|-----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Q-LINK    | Select the Q EVENT to erase from ALL, 1, 2, 3, 4, 5 and 6, after selecting the track you want to erase Q Events at 'Track' field and setting the erase region at 'Track' field.                                                                                                                                                                                         |
| KEY BASED | Select the track you want to erase Key Base Controller at 'Track' field and set the erase region at 'Time' field.<br>Then, select the Key Based Controller to erase from ALL, VOLUME, PITCH, PAN, RELEASE, ATTACK, DECAY, RESONANCE, CUTOFF, and LFO DEPTH and set the note to erase Key Based Controller from ALL/A01~F16 or 0(C-2)~127(G8) at 'Pad' or 'Notes' field. |



## Insert Event pop-up window changes

In the Insert Event pop-up window, which is opened by pressing INSERT [F6] key in STEP EDIT mode/SEQ EDIT mode, the Q-LINK and KEY BASED CONTROL options have been added for 'Type' field.

- |                   |                                                                                                                                                                                                                    |
|-------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Q-LINK            | Set the value inserted at 'Value' fields, after setting the insert region of the Q EVENT at 'Time' field and selecting the Q-Link knob/slider at 'Q number' field.                                                 |
| KEY BASED CONTROL | Set the Key Based Controller at 'Control' field and the value inserted at 'Value' fields, after setting the insert region of the Q EVENT at 'Time' field and selecting the Q-Link knob/slider at 'Q number' field. |



\*For the details of Insert Event pop-up window, please refer to the page 59 and subsequent pages of the Reference Manual.

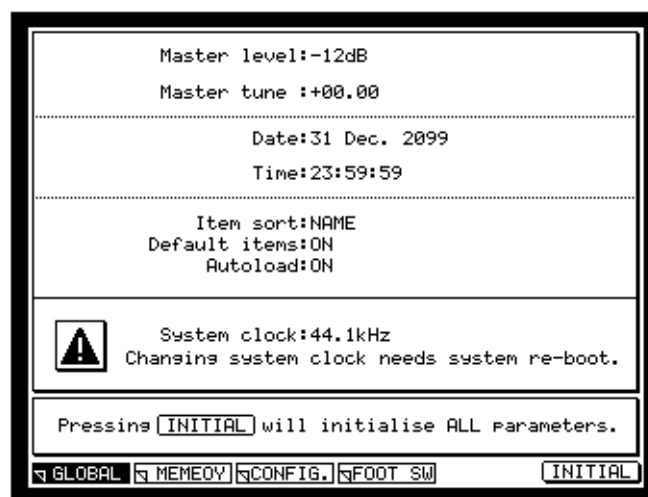
## Default items field added

It is now possible to select whether to make default items (Multi/Program) when the unit is turned on. This is convenient when used with the Autoload function described later as the data is not created unnecessarily.

The 'Default items' field has been added on GLOBAL [F1] page in GLOBAL mode.

### Default items field

- ON Creates default items (Multi/Program) at power up
- OFF Default items are not created at power up



## Autoload field added

It is now possible to load the data in the folder automatically upon power up. When there is a folder named "Autoload" is present at the root directory of the connected drive, the contents of that folder (Sequences/Multis/Programs/Samples) will be loaded automatically.

\*ALL file in Autoload folder will not be loaded.

The 'Autoload' field has been added in GLOBAL [F1] page of GLOBAL mode.

### Autoload field

- ON The Sequence/Multi/Program/Sample files in the folder will be loaded when it finds the "Autoload" folder present at the root directory of the connected drive.
- OFF No files will be loaded regardless of the presence of "Autoload" folder.

### Operation

1. Create the folder named "Autoload" at the root directory of the connected drive and save the files into it, or rename the existing folder at the root directory to "Autoload".
2. Set it to ON at 'Autoload' field on GLOBAL [F1] page in GLOBAL mode.
3. The data in "Autoload" folder will be auto-loaded the next time the unit is powered on.

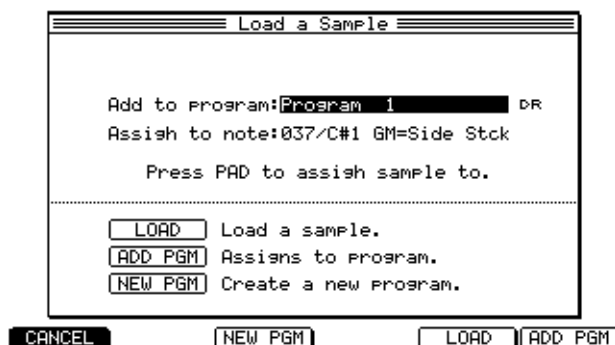
\* When the MPC4000 is powered up with Autoload function on, ABORT [F1] key appears on the boot-up screen. Pressing this key aborts the Searching Disk function and cancels out the Autoload function.

**Note:** When two or more drives are connected, depending on the type of drives and/or the connection of drives, the Autoload function may not work properly. If the problem arises with multiple drives, try using it with a single drive connected.

## Load a Sample pop-up window added

The 'Load a Sample' pop-up window is now available when pressing DO IT [F6] key after selecting the sample in LOAD mode. The sample can be loaded assigned to the program.

The 'Assign to note' field appears when DR is selected at 'Add to program' field, while the 'Key range'/'Keyboard track' fields appear when KG is selected. Pressing ADD PGM [F6] key, after setting the parameters appropriately, will load the sample assigned to the program. Pressing LOAD [F5] key will load the sample without assigning it.



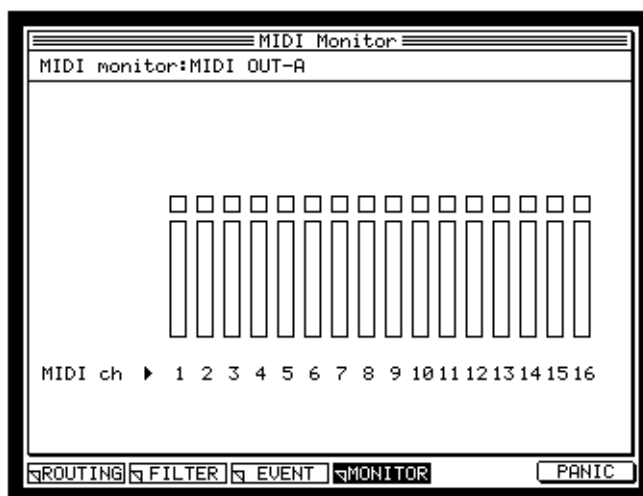
## MIDI Monitor page added

It now allows monitoring of the MIDI note events received/sent with their velocity information on each MIDI channel of the selected MIDI terminal/port.

Pressing MONITOR [F4] key in MIDI mode opens up MIDI Monitor page.

### MIDI monitor field

MIDI IN I	[MIDI IN I] terminal
MIDI IN II	[MIDI IN II] terminal
MIDI OUT-A	[MIDI OUT-A] terminal
MIDI OUT-B	[MIDI OUT-B] terminal
MIDI OUT-C	[MIDI OUT-C] terminal
MIDI OUT-D	[MIDI OUT-D] terminal
INT-A	Virtual MIDI port A of Sampler section
INT-B	Virtual MIDI port B of Sampler section





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