

CUBASE

VST

VST Remote
Control Devices

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Background

It is possible to control the VST Mixer via MIDI. The procedures involved are described in the Getting into the Details manual while this document contains details on the supported MIDI Control devices. Currently, the following devices are supported:

- CM Automation Motor Mix, see [page 4](#).
- JL Cooper CS-10, see [page 5](#).
- JL Cooper MCS-3000, see [page 6](#).
- Roland MCR8, see [page 7](#).
- Roland U-8, see [page 7](#).
- Tascam US-428, see [page 8](#).
- Yamaha 01V, see [page 10](#).

If you have another type of MIDI control device, you may be able to use it as a Generic Remote Device (see [page 12](#)).

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- **Support for other control devices may have been added after this was written. Information regarding these devices will in that case be provided in additional Read Me files, included on your Cubase CD.**
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Remote Control Device Specifics

CM Automation Motor Mix

The CM Motor Mix can control any number of VST channels in groups of 8.

- **Fader level, Mute, Solo control the equivalent VST functions.**
- **Left and right View buttons: selects VST Channels 1-8, 9 -16 etc.**
- **Top button row (above the rotary knobs) selects channel.**
- **The two rows of buttons on each side of the faders can be assigned functions in the Device Setup dialog.**

All except the Shift button, which acts like [Shift] on your computer keyboard.

- **The Rotary knobs are multi-functional, depending on the selected Rotary setting.**

The following parameters can be remote controlled with the 8 Rotary knobs:

- Pan
- Effect sends 1-8
- EQ Enable/Freq/Gain/Q
- **The first two rows of buttons below the rotary knobs are also multi-functional, depending on the status of the buttons to the left and right of these two rows.**

Note that the "Group" button is not assigned any parameter.

The following parameters can be remote controlled with the 8 buttons on the first row below the rotary knobs:

- EQ Master Bypass
- Insert On

The following parameters can be remote controlled with the 8 buttons on the second row below the rotary knobs:

- Record Enable
- Monitor
- Write Automation
- Read Automation

JL Cooper CS-10

The CS-10 can remote control 32 VST channels (in groups of 8). The following CS-10 controls will remote control the following VST parameter for each channel strip:

- **Fader: Volume**
- **Solo and Mute: Solo and Mute**
- **Sel: Select channel for editing**

The following parameters can be remote controlled for each *selected* channel using the six rotary knobs on the CS-10:

Dial	Parameter
Send 1	Effect send 1
Send 2	Effect send 2
Pan	Pan
Boost/cut	EQ 1 Gain
Frequency	EQ 1 Frequency
Bandwidth	EQ 1 Q Factor

- **The CS-10 Function Keys 1 - 4 are used to select VST channels 1 - 32 in groups of 8.** Function key 1 selects channels 1 - 8, Function key 2 selects channels 9 - 16, and so on.
Function key 1 selects channels 1 - 8, Function key 2 selects channels 9 - 16, and so on.
 - **If you hold down the Function key "Shift" and then move a fader, the two indicators beside the fader will indicate whether the fader position is below or above the current fader level in Cubase.**
If the upper indicator is lit, the fader position on the panel is above the fader level in Cubase VST and vice versa. When both indicators are dark, the fader positions are matched for that channel.
 - **The CS-10 Play, Stop, Record, Rewind and Fast Forward transport controls will have the equivalent functionality in Cubase VST.**
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- **The CS-10 supports "MIDI Feedback", allowing the Mute, Solo and selection status of the channels in VST to be indicated on the panel. For this (and the fader position indication described above) to work, you need a two-way MIDI connection between the CS-10 and Cubase VST.**
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JL Cooper MCS-3000

The MCS-3000 can control 32 VST channels remotely (in groups of 8). The following MCS-3000 controls will remote control the following VST parameter for each channel strip:

- **Fader: Volume**
- **Solo and Mute: Solo and Mute**
- **Sel: Select channel for editing**
The following parameters can be remote controlled for each *selected* channel using the dials on the MCS-3000 and switching between Pages 1 - 4:

Page 1		Page 2	
Dial	Parameter	Dial	Parameter
1	Pan	1	EQ 1 Gain
2	Effect send 1	2	EQ 1 Freq
3	Effect send 2	3	EQ 1 "Q"
4	Effect send 3		
5	Effect send 4		

Page 3		Page 4	
Dial	Parameter	Dial	Parameter
1	EQ 2 Gain	1	EQ 3 Gain
2	EQ 2 Freq	2	EQ 3 Freq
3	EQ 2 "Q"	3	EQ 3 "Q"

- **The MCS-3000 Bank Keys 1 - 4 are used to select VST channels 1 - 32 in groups of 8.** Bank key 1 selects channels 1 - 8, Bank key 2 selects channels 9 - 16 and so on.
 - **You can create Markers by pressing the "Set Locate" key on the MCS-3000, typing in a Marker ID and pressing Return.**
 - **To locate to a Marker, press "Locate", type in a Marker ID and press Return.**
 - **The MCS-3000 Play, Stop, Record, Rewind and Fast Forward transport controls will have the equivalent functionality in VST.**
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- **The MCS-3000 supports "MIDI Feedback", allowing fader settings and channel Mute, Solo and selection status to be indicated on the panel. For this to work, you need a two-way MIDI connection between the MCS-3000 and Cubase VST.**
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Roland MCR-8

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- ❑ **Before you can initiate remote control operation, the MCR-8 "Mode" switch must be set to "4".**
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The Roland MCR-8 can control 16 VST channels, plus transport control. The "A/B switch" is used to switch between controlling channels 1 - 8 and 9 - 16. The following MCR-8 parameters control the equivalent VST parameters for each channel strip:

- **Fader level, Mute, Solo and Pan.**

The following MCR-8 transport controls control the equivalent VST functions:

- **Play, Stop, Record, Rewind, Fast Forward.**

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- ❑ **The MCR-8 does not support "MIDI feedback", that is, the current status of parameters in VST are not indicated on the MCR-8. Therefore, you only need a one-way MIDI connection between the MCR-8 and Cubase VST.**
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Roland U-8

The U-8 can control up to 8 VST channels and 16 MIDI Track Mixer channels. In addition, it can be used to control the U-8 internal audio processor.

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- ❑ **Please refer to the U-8 documentation for detailed descriptions of the U-8 Mixer.**
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- **The U-8 controls the U-8 Mixer when its window is open.**

To open the U-8 Mixer window press the Mixer button on the U-8.

When the U-8 Mixer window is closed, the U-8 will remote control the following VST and MIDI Track Mixer parameter for each channel strip:

- **Fader: Volume (for VST and MIDI Track Mixer channels)**
- **Track Status:: Selects VST channel for editing**
- **Mixer Dial 1: Pan**
- **Mixer Dial 2: FX-Send 1**
- **Mixer Dial 3: EQ1 Gain (press the U-8 Shift key to control EQ1 Freq)**
- **Mixer Dial 3: EQ2 Gain (press the U-8 Shift key to control EQ2 Freq)**
- **The U-8 Transport keys will have the equivalent functionality in VST.**
- **To set Markers, hold down "Set" while pressing a Locator key.**
- **The Time/Value wheel will act as Position-Shuttle.**
- **Loop will control the Cycle status.**
- **Auto Punch will control the Punch In status.**
- **The U-8 supports "MIDI Feedback", allowing for selection and Transport status to be indicated on the panel. For this to work, you need to select the "U-8 Control In" port as input and the "U-8 Control Out" as output.**

Tascam US-428

The US-428 can remote control up to 64 VST channels, 64 MIDI Track Mixer channels and 1 or 2 DSP-Factory cards (if installed).

- **When you select the Tascam US-428 device in the Remote Setup dialog and click OK, the Remote Status window appears.**

This indicates which Bank (group of eight channels in Cubase VST) is currently being controlled by the remote device. To select another Bank, use the pop-up menu in the window or use the Bank Left/Right buttons on the remote device.



The Remote Status window.

- **The US-428 Transport keys will have the equivalent functionality in VST.**
- **To set Markers, hold down "Set" while pressing a Locator key.**
- **If you hold down the Function key [Null] and then move a fader, the Select and Rec indicators above the fader will indicate whether the fader position is below or above the current fader level in Cubase.**
If the upper indicator is lit, the fader position on the panel is above the fader level in Cubase and vice versa. When both indicators are dark, fader positions are matched for that channel.
- **The US-428 supports "MIDI Feedback", allowing to Mute/Solo, Channel selection, EQ band, Aux 1 to 4 and Transport status to be indicated on the panel. For this (and the fader position indication described above) to work, you need to select the "US-428 Control" port as input and output.**

VST Channel Mixer

The following US-428 controls will remote control the following VST parameter for each channel strip:

- **Fader: Volume**
- **Mute/Solo: Mute and Solo (selected via the Solo switch)**
- **Select: selects channel for editing**
- **Pan-Dial: Pan**
- **EQ-Gain**
Controls the EQ Gain for each band selected with the Low, LoMid, HiMid and High buttons.. These correspond to the four EQ bands in VST, starting from the leftmost band.
- **EQ-Freq**
Controls the EQ Freq for each band selected with the Low, LoMid, HiMid and High buttons.. These correspond to the four EQ bands in VST, starting from the leftmost band.
- **EQ-"Q"**
Controls the EQ "Q" for each band selected with the Low, LoMid, HiMid and High buttons.. These correspond to the four EQ bands in VST, starting from the leftmost band.

- **Aux 1 to Aux 4 and Shuttle wheel:**
The Effect Send levels for Sends 1 to 4.
- **The Shuttle wheel will act as Position Shuttle if no Aux send button is selected.**
Press the activated button to deselect it.
- **Holding down the "Asgn" button and pressing the Low, LoMid, HiMid and High EQ buttons switches the corresponding EQ band "On" button status.**
- **Holding down the "Asgn" button and pressing the Aux1 to Aux4 buttons switches the corresponding Effect Send 1-4 "On" button status.**

MIDI Track Mixer channels

MIDI Track Mixer channels are named "CTM" Mixer channels in the Remote Status window. The following US-428 controls will remote control the following CTM parameter for each channel strip:

- **Fader: Volume**
- **Mute/Solo: Mute and Solo (selected via the Solo switch)**
- **Select: selects channel for editing**
- **Pan-Dial: Pan**

DSP Factory

The following US-428 controls will remote control the following DSP Factory parameter for each channel strip:

- **Fader: Volume**
- **Mute/Solo: Mute and Solo (selected via the Solo switch)**
- **Select: selects channel for editing**
- **Pan-Dial: Pan**
- **EQ-Gain**
Controls the corresponding EQ Gain for each band selected with the Low, LoMid, HiMid and High buttons.
- **EQ-Freq**
Controls the corresponding EQ Freq for each band selected with the Low, LoMid, HiMid and High buttons.
- **EQ-"Q"**
Controls the corresponding EQ "Q" for each band selected with the Low, LoMid, HiMid and High buttons.
- **Aux 1 to Aux 4 and Shuttle wheel:**
Controls the Effect Send levels for Sends 1/2 and 5/6.
- **Holding down the "Asgn" button and pressing the Low, LoMid, HiMid and High EQ buttons switches the corresponding EQ band "Bypass" button status.**
- **Holding down the "Asgn" button and pressing the Aux1 to Aux4 buttons switches the Effect Sends 1/2 and 5/6 "On" button status.**

Yamaha 01V

The Yamaha 01V can remote control either the VST Mixer or the Yamaha DSP Factory if installed (see the separate “Using Cubase with DSP Factory” document for details). Before you can initiate remote control operation, the 01V must be setup in the following way:

- **MIDI Parameter Change and Receive must be enabled.**
- **MIDI Control Change and Receive must be disabled.**
- **Device ID / MIDI Channel Receive must be set to “1”.**
- **Local Control should be set to “Off”.**

As soon as “Local Control Off” is selected, remote control of the VST Mixer is enabled.

The 01V remote operation of the VST Mixer is very straightforward, with (almost) every VST parameter having the equivalent parameter controller in the 01V mixer. The current status of all controllable parameters are fed back to the 01V and indicated on the panel, using the motorized faders, indicators, etc (for this to work, you need a two-way MIDI connection between the 01V and Cubase VST).

To facilitate 32 channel remote control, two separate control “Layouts” are used, each controlling 16 VST channels. The “Memory” button on the 01V is used to switch between VST Layout 1 and 2 (there are also two Layouts for the DSP Factory - see the “Using Cubase with DSP Factory” document). Page 1 displays VST Layout 1, page 2 VST Layout 2, page 3 DSP Factory Layout 1 and page 4 DSP Factory Layout 2.

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- **The value ranges for the parameters in the 01V may not match the ranges for the corresponding VST parameters in all cases.**
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