



Pyramix
DIGITAL AUDIO WORKSTATION

**JL Cooper 3x Series
Set-up Guide**

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Contents

Contents	3
Introduction	5
Overview	5
Setup	5
Requirements:	5
Communication	5
Connections	5
Adding an MCS Controller	5
MCS-3800 Control Mapping	7
MCS-3800 Configuration	8
The Control Tree View	13
Mapping MCS Controls to Pyramix Controls	15
MCS-3800 Assignment	15
MCS-Bridge Assignment	16
Index	17

JL Cooper

MCS 3x series controller set-up

User Guide

Document: Pyramix™ JL Cooper Guide 02

Date: 21st July-2009

Introduction

Overview

This document details the physical and logical connections required to enable JL Cooper MCS 3x series hardware control surfaces to control Pyramix Virtual Studio using the optional **Remote Control MIDI protocol**.

Scope

The JL Cooper Controllers are supported by the **Optional Pyramix MIDI Remote Control Protocol** feature.

In Pyramix the following MCS series devices are supported:

MCS-3800

MCS-3000

MCS-Bridge

MCS-3000x

For more information on installing and using the MCS family controllers, please consult the MCS-3000 Series User Reference Manuals.

Setup

Requirements:

Components required for operating a JL Cooper MCS Controller with Pyramix:

- A supported JL Cooper MCS series controller.
- Pyramix 5.0 or higher with the Remote Control MIDI Protocol option authorized.
- The PC Workstation running Pyramix must be equipped with a functioning MIDI interface.

Communication

Pyramix and the DM-2000 communicate via MIDI.

Connections

MIDI

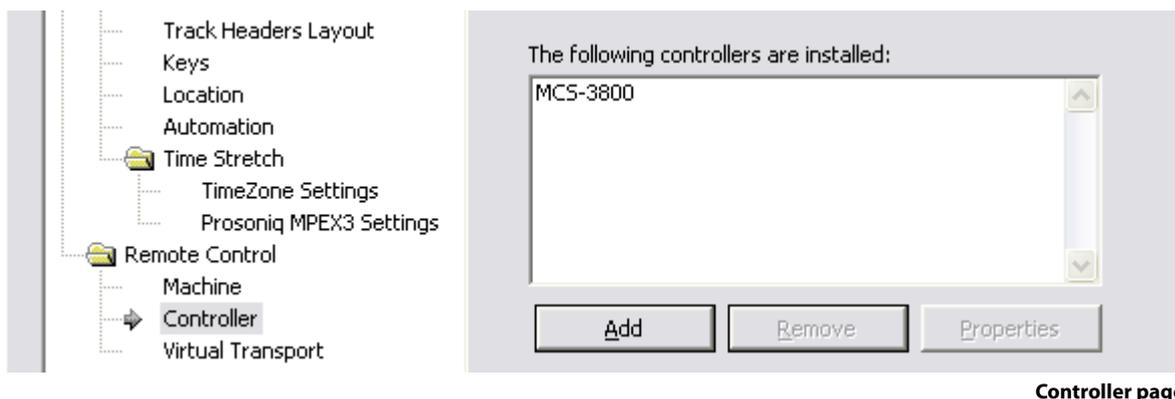
Connecting the controller requires that a hardware device with MIDI port functionality be installed in the computer. An external USB to MIDI interface will also work fine, or a soundcard with MIDI I/O, e.g. a SoundBlaster.

All subsequent set-up information assumes that the MCS controller is properly powered and connected to a functioning MIDI interface.

Adding an MCS Controller

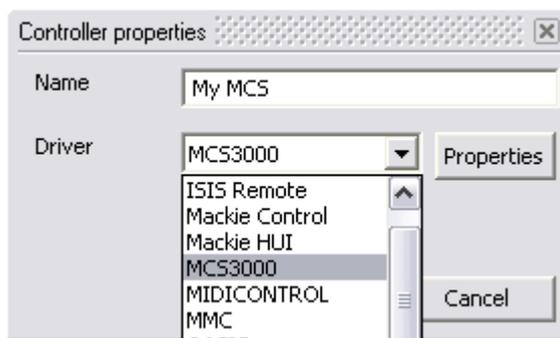
Before the MCS control surface can be used or the controls mapped it must be “added” in Pyramix and the correct driver selected.

To add a new controller go to the **Settings > All Settings > Remote Control : Controller** page.



Controller page

If no controllers are installed, or more need to be added, click on the **Add** button. This opens the **Controller Properties** dialog window:



Driver Selection combo-box list

Name

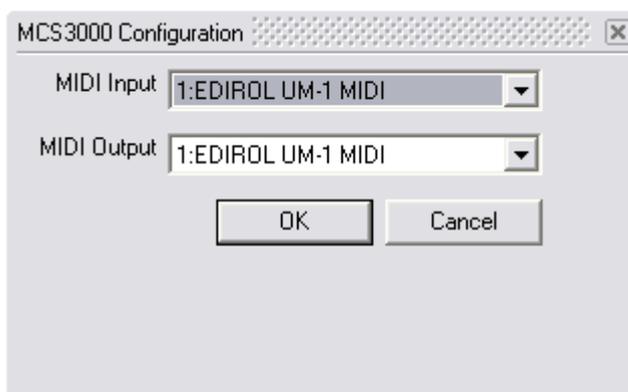
Type a suitable, friendly name in the **Name** field.

Driver

Select **MCS 3000** from the **Driver** combo-box drop down list. For an MCS-3800 controller select the MCS3000 driver.

Properties

Once the MCS3000 driver has been selected, clicking on the **Properties** button opens the **MIDI Configuration** dialog:



MIDI Input and Output selection dialog

Choose the appropriate **MIDI Input** and **MIDI Output** device drivers corresponding to the ports your MCS controller is physically connected to. Clicking on **OK** accepts the changes and **Cancel** ignores the changes.

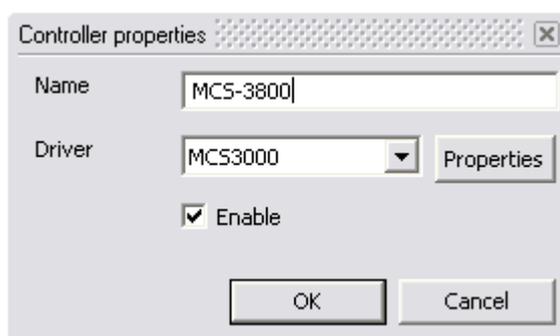
If no **MIDI** driver is installed, the **MIDI Input** and **MIDI Output** combo-box dropdown menus will be empty and the **A device ID has been used that is out of range for your system** error message will be displayed when either the **Apply Changes to Controller** button is clicked or the **OK** button is clicked to close the **Pyramix Settings** dialog:



MIDI Warning Info

Enable

Each installed hardware controller can be enabled or disabled with the **Enable** checkbox in the **Controller properties** dialog.

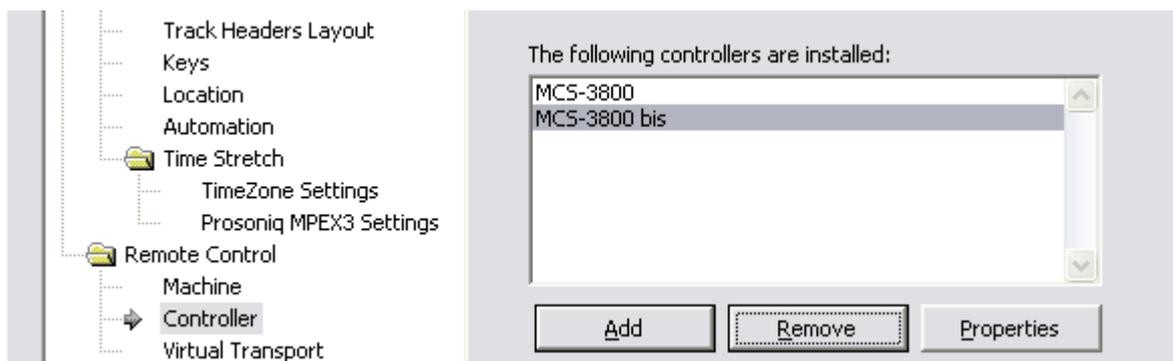


Controller Properties dialog

Make sure the **Enable** checkbox is ticked before clicking on **OK** to close the dialog.

Removing an Installed Controller

Highlight the controller you wish to remove in the **The following controllers are installed:** list by clicking on it then click on the **Remove** button:

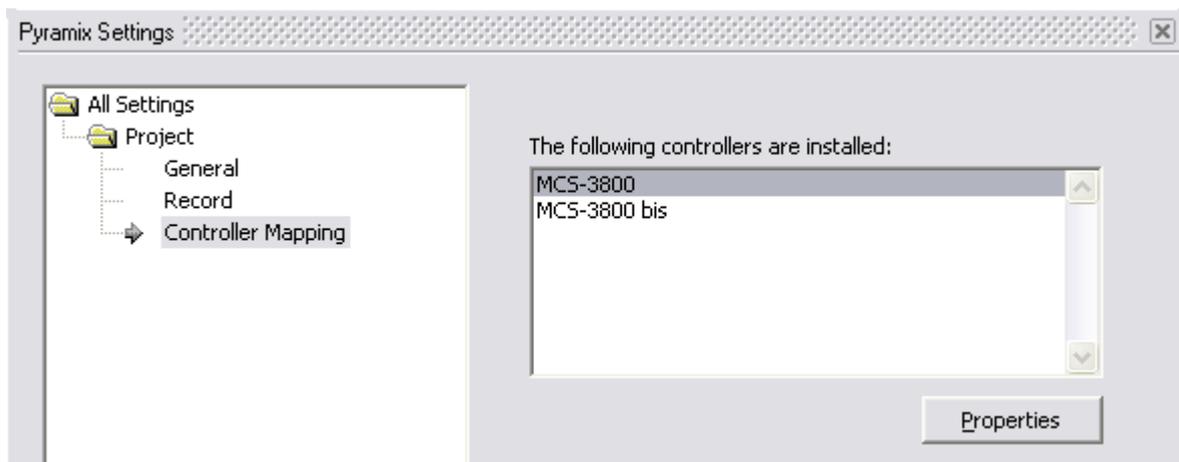


All Settings > Remote Control > Controllers

MCS-3800 Control Mapping

MCS-3800 mapping allows for user defined custom configurations. A wide range of Pyramix controls and audio effect parameters can be mapped to the MCS-3800 hardware surface controls. To configure the mapping, go to

the **Settings > All Settings > Project : Controller Mapping** page and select the target controller in the **The following controllers are installed:** list:



Note: This page can also be accessed by right-clicking on the track arming button in a Track Header to open the Pyramix Settings dialog and then clicking on **Controller Mapping**.

MCS-3800 Configuration

Click on the **Properties** button to open the MCS3000 Configuration dialog:

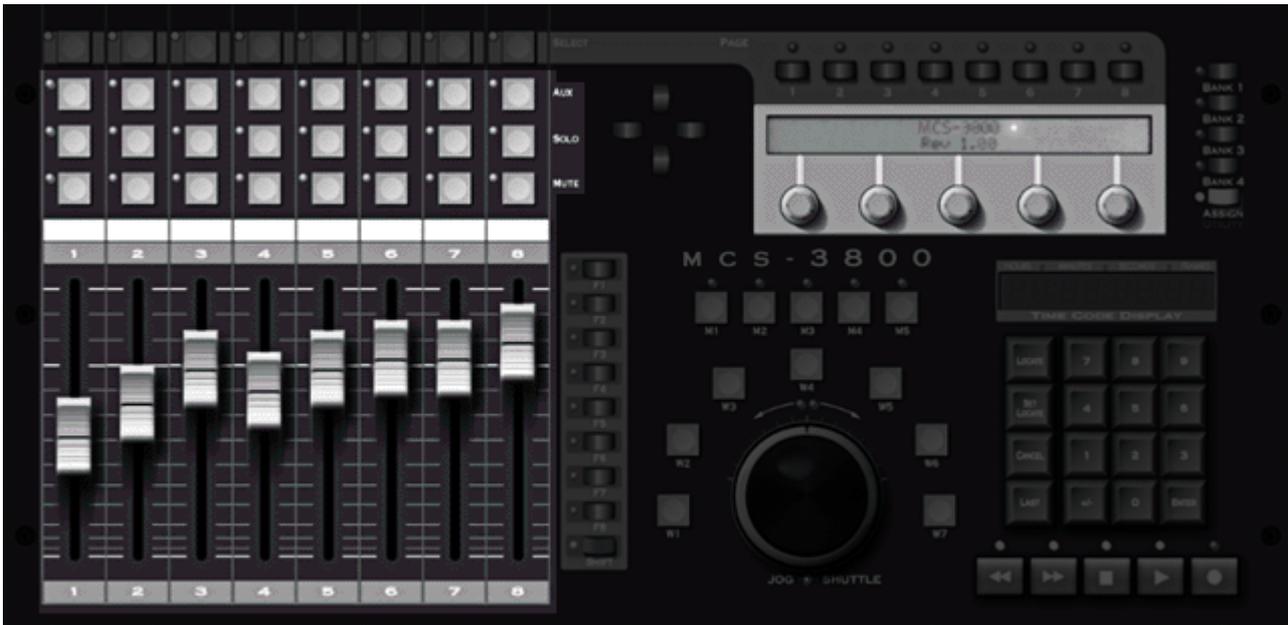


MCS3800 Controls

This window contains the components that will enable you to map Pyramix control functions onto MCS-3800 physical controls. These components are grouped by area and function as follows.

The Mixer Section

The Mixer section contains controls used in the mixing process that can be mapped to Pyramix controls. The mappable controls are the motorized, touch sensitive faders, push buttons above the faders, and the five rotary encoders.



MCS3800 Mixer Section

Bank, Select and Page Buttons



MCS3800 Bank, Select and Page Buttons

The **Page**, **Bank** and **Select** switches are “hard wired” i.e. they cannot be user mapped. These buttons enable switching between different layers of controller assignments. The four **Bank** buttons each select one of four fader layers. This gives easy access for controlling up to 32 Pyramix mixer strips. Since the faders are motorized, they will always reflect the position of the control they are actually mapped to.

The **Page** buttons, in conjunction with the **Select** buttons, are used to switch the rotary encoders between pages of controllable parameters. This gives the encoders access to up to 40 control parameters per fader. To access the assignments, first hit the **Select** button above any fader and then use one of the 8 **Page** buttons to select one of the 8 pages of assignments for the rotary encoders.

For more information on **Pages** and or **Banks**, please consult the MCS-3000 Series User Reference Manual.

The Machine Buttons



MCS3800 Machine Buttons

This section contains five buttons labeled **M1** through **M5**. These buttons are automatically mapped to the Pyramix Transport Internal Machine (**M1**) and **M2** to **M5** to any installed and enabled External Machines.

The Jog Wheel Buttons

This section contains seven function buttons labeled as **W1** through **W7**.



MCS3800 Jog Wheel Buttons

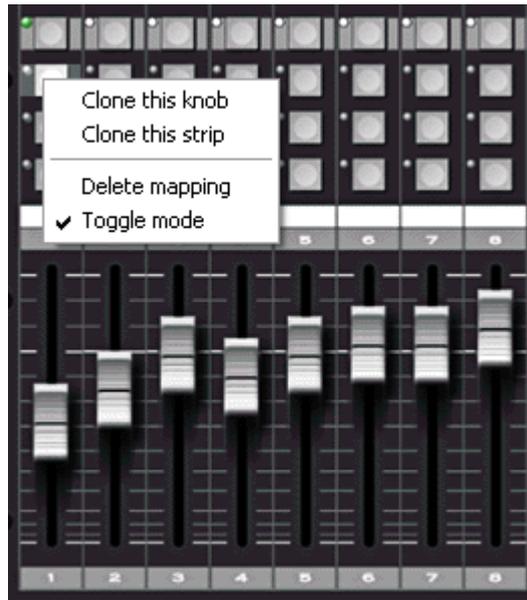
They are part of the Transport Control section and have the following functions:

	M1	M1 + Shift	M2...M5	M2...M5 + Shift
W1	Set In	Goto In	Set In	Goto In
W2	Move	Slide		
W3	Fade In	Trim In	Nudge + 1 Frame	
W4	Jog	Shuttle	Jog	Shuttle
W5	Fade Out	Trim Out	Nudge - 1 Frame	
W6	Chase	Freeze		
W7	Set Out	Goto Out	Set Out	Goto Out

Note: these buttons have different actions if **M1** (Pyramix Internal Machine) or **M2..M5** (possible External Machines connected to Pyramix) are selected.

Contextual Control Menu

The Controls in the MCS-3800 mapping configuration page also have a right-click contextual menu:



MCS Controls Context Menu

Clone this knob

This action takes the current mapped function of the item under the cursor when right-clicked and attempts to apply the same control function to all other buttons in the same position related to the subsequent Pyramix mixer strips. It makes more sense when you actually map a mixer.

Clone this strip

Performs the same action as **Clone this knob**, but on an entire strip including the rotaries.

Note: When mapping a mixer from scratch we suggest starting by mapping the first strip then using this action.

Delete Mapping

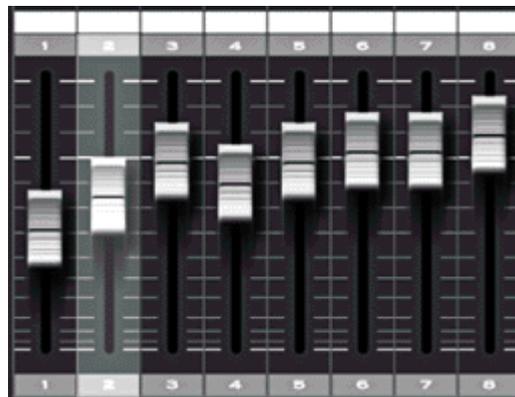
Selecting this option deletes the currently assigned control mapping. This option is not available if no current control mapping exists for the control.

Toggle Mode

This option is only available for buttons. This option changes the button mode between latching **push on - push off** and **momentary** modes. This option is not available if no current control mapping exists for the control.

Control Tool Tips

As the mouse cursor hovers over an MCS control, the control becomes highlighted.



Highlighted Control

If the control is mappable and is currently mapped, the status bar will display the corresponding Pyramix mapped control E.g.:

Mixer | Audio 3 (Strip 3 - Mono) | Gain Bus 1 | Gain

MCS3000 Configuration dialog window Status Bar

Load mapping...

This feature is not yet implemented and intended for future use.

Clear All...

Pressing this button deletes all currently assigned control mapping.

Default Mapping

Load and Save

This section enables the current mapping state to be saved from or loaded to the current MCS device configuration.

Note: Once used, the defined **Default mapping** will be loaded every time a new controller configuration is created.

The Control Tree View

The collapsible tree view in the right-hand pane contains all available Pyramix controls. The controls are classified by category and are contained in specific folders.

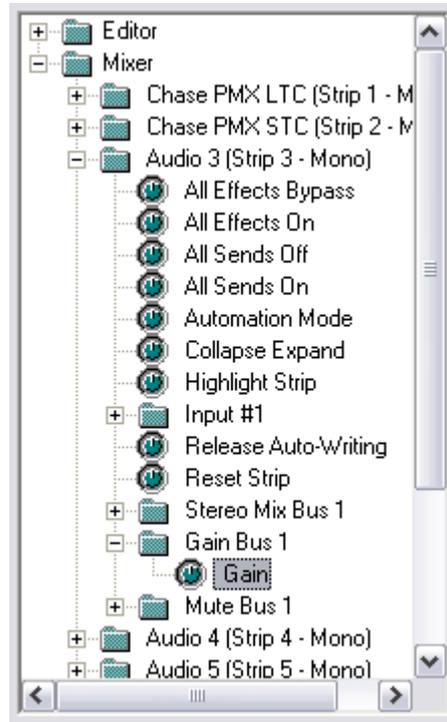


MCS3000 Configuration dialog window

Navigating in the Tree View

Clicking on a  "plus" icon opens a folder to reveal the sub-folders and controls it contains.

Clicking on a  "minus" icon closes a folder.



Pyramix Controls Tree

Mapping MCS Controls to Pyramix Controls

MCS-3800 Assignment

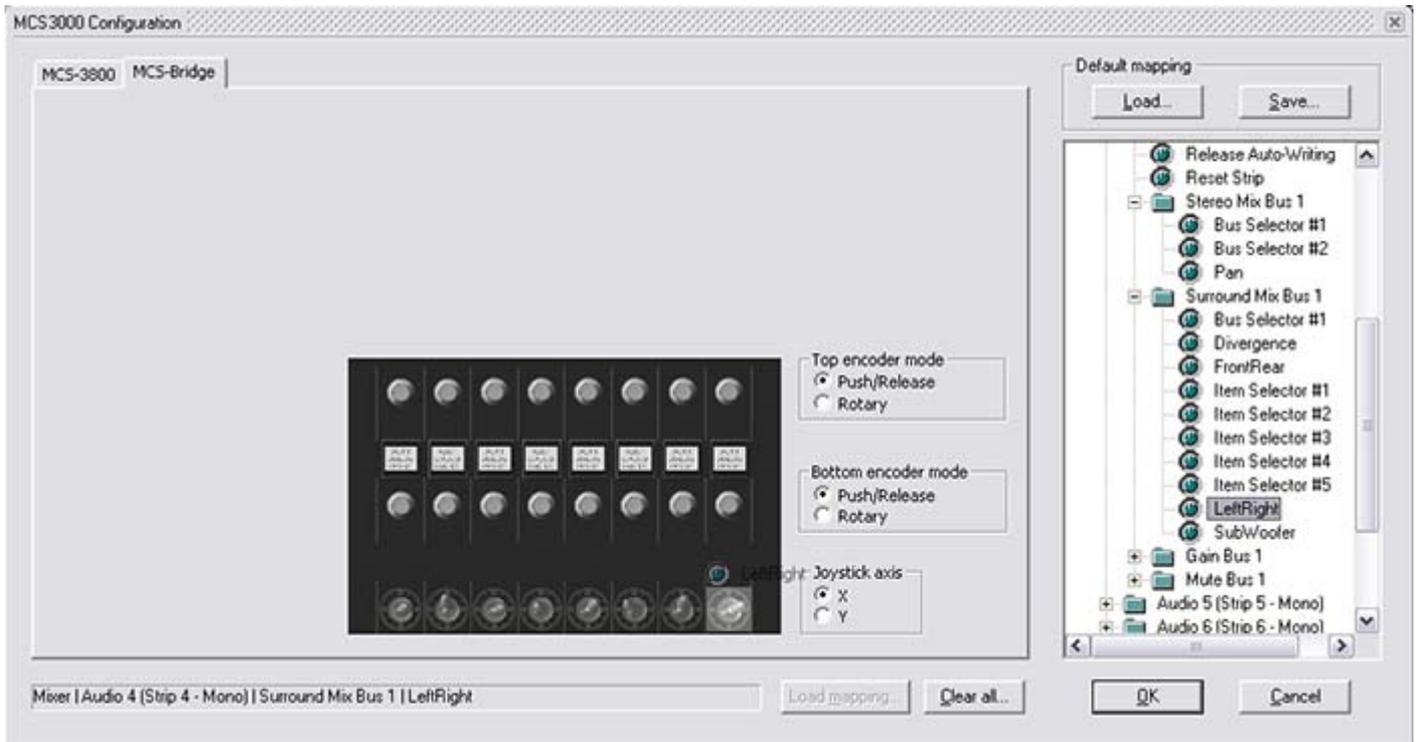
To assign a Pyramix control to an MCS-3800 surface control, simply select a control in the **Control Tree View** section by clicking on it then drag and drop it onto the target MCS-3800 surface control.



MCS3000 Configuration dialog

MCS-Bridge Assignment

Another example with an MCS-Bridge device.



MCS3000 Configuration dialog MCS-Bridge page

Index

- A**
Adding an MCS Controller 5
- B**
Bank, Select and Page Buttons 9
- C**
Clone this knob 12
Clone this strip 12
Communication 5
Connections 5
Contextual Control Menu 12
Control Tool Tips 12
Control Tree View 13
Controller Name 6
- D**
Default Mapping 13
Delete Mapping 12
Driver 5, 6
- E**
Enable 7
- I**
Introduction 5
- J**
Jog Wheel Buttons 11
- M**
Machine Buttons 10
MCS-3800 Assignment 15
MCS-Bridge 16
MIDI 5
Mixer Section 9
- N**
Navigating in the Tree View 14
- O**
Overview 5
- P**
Properties 6
- R**
Removing an Installed Controller 7
Requirements 5
- S**
Scope 5
Setup 5
- T**
Toggle Mode 12