

Controller

When using the Icon machine control surface with the RM-6 or SR-4 for multi-machine control Pro Tools is setup as a controller. The Icon/Pro Tools operate in the same way as they would with a single machine. The Pro Tools controls the Selected Master, all other machines controlled by the RM-6 slave to the selected master.

Figure 1: Protools Connected to a Single Machine



Figure 2 Pro Tools Connected to multiple machines via the RM-6



Equipment List

To setup the system you will need:

From Digidesign:

At least one Pro Tools HD card At least one 192 Interface A SYNC I/O Machine Control option Pro Tools HD 7.2 or higher

From CB Electronics:

A RM-6 or SR-4 Controller A USB-422 with appropriate 9-pin cable The driver for the USB-422 can be downloaded here: http://www.colinbroad.com/cbsoft/usbdriver.html

From Other Suppliers

Video Sync Pulse Generator

A note on using Windows XP

If your Pro Tools HD system is running on Windows XP, you will need to renumber the COM ports as Pro Tools can only connect to Comm1 and Comm2. More information on how to do this can be found in Appendix C of the USB-422 manual, which can be downloaded here:

http://www.colinbroad.com/cbsoft/usbdriver.html

CBServer and Pro Tools Connections to the RM-6

CBServer -> RM-6 Connect the *Output* port (B) of the USB-422 to Port F on the RM-6 using a standard 1:1 9-pin cable.

Pro Tools -> RM-6 First setup the Links on the RM-6 so that Port E is connected as an Input (Device) See Figure 3 below.

Connect the *Output* port (B) of the USB-422 to Port E on the RM-6 using a standard 1:1 9-pin cable (Appendix A).

Note 1: The RM-6 is supplied with Port E configured as an Output (Controller)

Note 2: When Ports B,C or D ate used as inputs a Tx-Rx Invert cable must be used 4Appendix B)

Figure 3: Link positions for RM-6 Port E



LINK	POSITIONS	FOR	SERIAL	Е	AS	INPUT

Configuring Protools

1) Load Session

10

2) Open the Setup > Session Setup dialogue box.

Sample Rate: 48 kHz	Audio Format: BWF (.WA	V) Session Start: 10:00:00				
Bit Depth: 24-bit		Incoming Time: 00:00:00:00				
Clock Source: SYNC I/O		🕄 Time Code Rate: 🛛 🔁 📢				
System Delay:		Feet+Frames Rate: 24				
SYNC Setup & Time Coo	le Offsets					
SYNC Setup		External Time Code Offsets				
Clock Reference:	Video Reference 📑	MMC: 00:00:00				
Positional Reference:	LTC	Link 🗹 – 9-Pin: 00:00:00:00				
Video Format:	PAL 💽	Sync: 00:00:00				
🗆 vso 🦳 🦷 🖸	0.00 semitones.cents					
Locke	d: 🚍 Speed Cal: 🛄					
Time Code Settings						
Generator	Freewheel	Pull Up/Down				
Using SYNC	O None	Audio Rate Pull Up/Down:				
		None				
MTC To Port:		Video Rate Pull Up/Down:				
none 🗘 🔘 Jam Sync		None				
Time Code	e Reader Offset: 0	samples				

- Ensure that SYNC I/O is chosen as the Clock Source.
- Choose either PAL or NTSC as the Video Format.
- Choose Video Reference as your Clock Reference.
- Choose the appropriate *Time Code Rate*.
- Close the dialogue box.

MIDI Mac	hine Control (Mas	ster)			
1		ID			
🗌 Enabl	none	\$ 127	Preroll: 90	frames	
MIDI Mad	hine Control Rem	ote (Slave)			
Enable	ID 127				
9-Pin Ma	chine Control (De	ck Control)			
🗹 Enabl	Port 0000105	Machine Type Pro Tools	Preroll: 150	frames	
	Use Serial Time (Serial Time Cod	Code For Positional Refer le Requires SYNC With Vic	rence Jeo Clock Referenc	e)	
	note (Deck Emula	ition)			
9-Pin Re	Dout	Machine Type			
9-Pin Re	Port				
	note (Deck Emula	ition) Machine Type			

Select the Machine Control tab.

- In the 9-Pin Serial section, check the Enable box.
- Choose Port B of the USB-422 in the *Port* drop-down menu.
- Choose an appropriate machine type in the *Machine Type* drop-down menu.
- Check the Use Serial Time Code For Positional Reference Box
- Click OK.

Machine Control



Select transport = Pro Tools or transport = Machine and ensure that you are Online

RM-6 Setup

To use Port E as a Controller input on the RM-6 you must tell the RM-6 to use Ports E and F as Inputs. You can do this on the RM-6 or CBServer.

On The RM-6 select Setup>Unit>Generic> Menu 032- Input Ports 1=E,F

On CBServer open the Unit 1 Generic page as shown in Figure 4 and set the number of input ports required.

B Setup Unit1 Record	×
jile <u>H</u> elp <u>P</u> age Back P <u>ag</u> e Fwd <u>E</u> xit	
Unit1 Unit2 IFace Record Chase Generic Timecode	
-7.30 Macro Protection ○ Off ● On	•
-7.31 Serial Input Ports RM-6(SR-4) ○ F(A)	
7.32 Locate Type © With Pre-Roll © With Pre-Roll	
-7.33 GP Outputs 4, 5, 6 ○ GP ● Record ○ Tally ○ Mcn ○ Master ○ Reader ○ ADR	
7.34 GP Output 3 O Mute Play+Tvs O Mute Play+Rec O ADR O Red Light	•
Menu Version 1.32 18th Nov 2005	

Figure 4 CB Server Input port configuration

Appendix A: 1:1 RS422 (Sony 9 pin) CABLE						
Function (Controller)	9 pin 'D' Male on cable (Both Ends)	Cable Colour	Function (Controlled Device)			
	1					
Rx-	2	Red	Tx-			
Tx+	3	Yellow	Rx+			
Ground	4	Screen	Ground			
	5					
	6					
Rx+	7	Blue	Tx+			
Tx-	8	White	Rx-			
	9					

Appendix B: Tx-Rx Invert Sony 9 pin CABLE					
Function: Controlled 9 pin 'D' Male on Device Cable		9 pin 'D' Male on cable	Cable Colour		
1		1			
Tx-	2	8	Red		
Rx+	3	7	Yellow		
Ground	4	4	Screen		
	5	5			
	6	6			
Tx+ 7		3	Blue		
Rx-	Rx- 8		White		
9		9			

Appendix C: Eavesdrop Sony 9 pin CABLE					
Function: Controller	Eavesdrop Controller 9 pin 'D' Female on Cable	Controller 9 pin 'D' Female on Cable	Device 9 pin 'D' Male on cable	Function: Controlled Device	
Rx-	2	2	2	Tx-	
Tx+		3	3	Rx+	
Ground	4	4	4	Ground	
Rx+	7	7	7	Tx+	
Tx-		8	8	Rx-	

CB Electronics

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