Using ProTools as a device (RM-6, SR-4 or PD-1)

Device

ProTools should be configured as a device when used as the record machine or Dubber with a controller (RM-6, SR-4. PD-1).

Equipment List

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 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

Connections

Connect the *Output* port of the rm=6/sr-4/PD-1 to *Port A* of the USB-422 using a standard 1:1 9-pin cable.

Configuring Protools

1) Load Session

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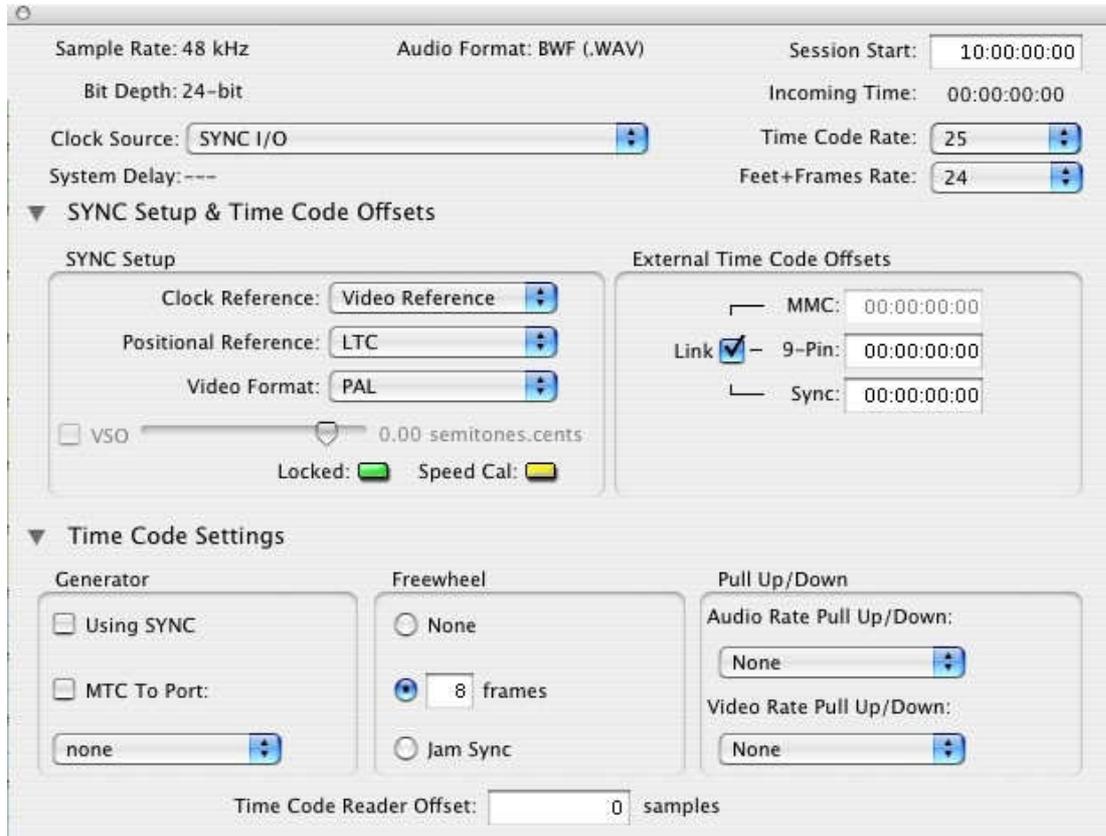
- Ensure that *SYNC I/O* is chosen as the *Clock Source*.
- Choose either *PAL* or *NTSC* as the *Video Format*.
- Choose Video Reference as your Clock Reference.
- Choose the appropriate *Time Code Rate*.
- Close the dialogue box.

3) Open the *Setup > Peripherals* **dialogue box.**
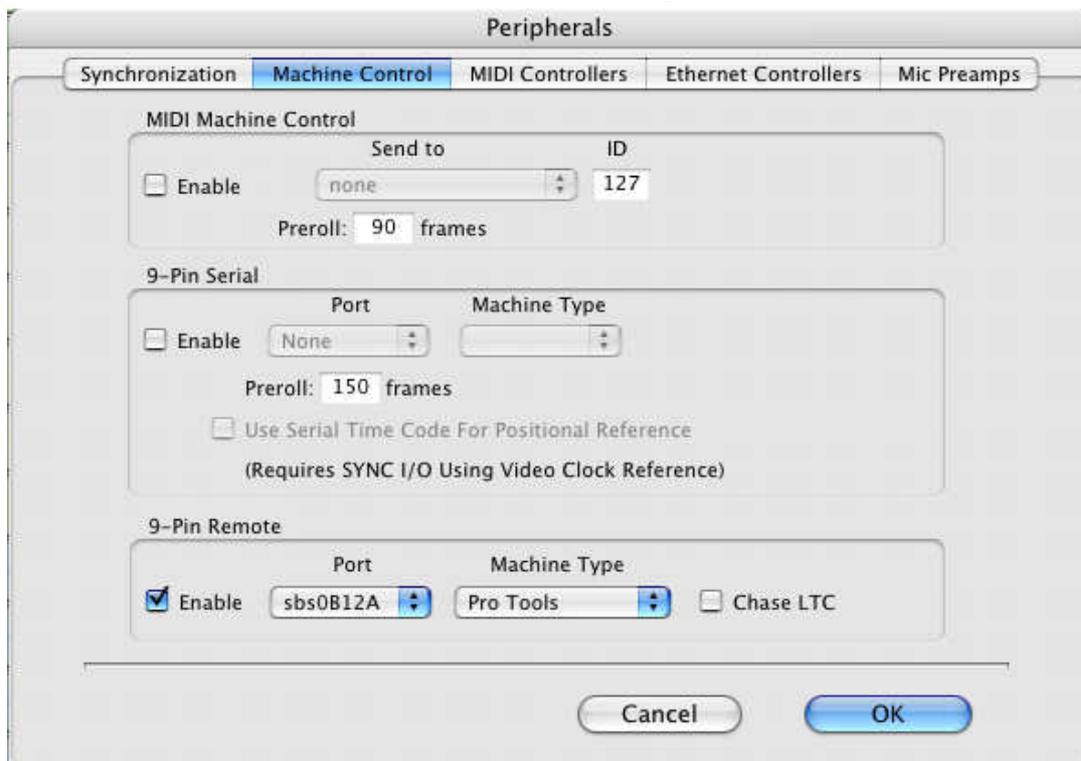
Select the *Machine Control* tab.
- In the *9-Pin Remote* section, check the *Enable* box.
- Choose Port A of the USB-422 in the *Port* drop-down menu.
- Choose *Pro Tools* in the *Machine Type* drop-down menu.
- Click *OK.*

4) Open the *Setup > Preferences* dialogue box.

Select the Synchronization tab.
- Check the Allow Track Arm Commands in Local Mode checkbox.

This allows track arming even when using LTC chase
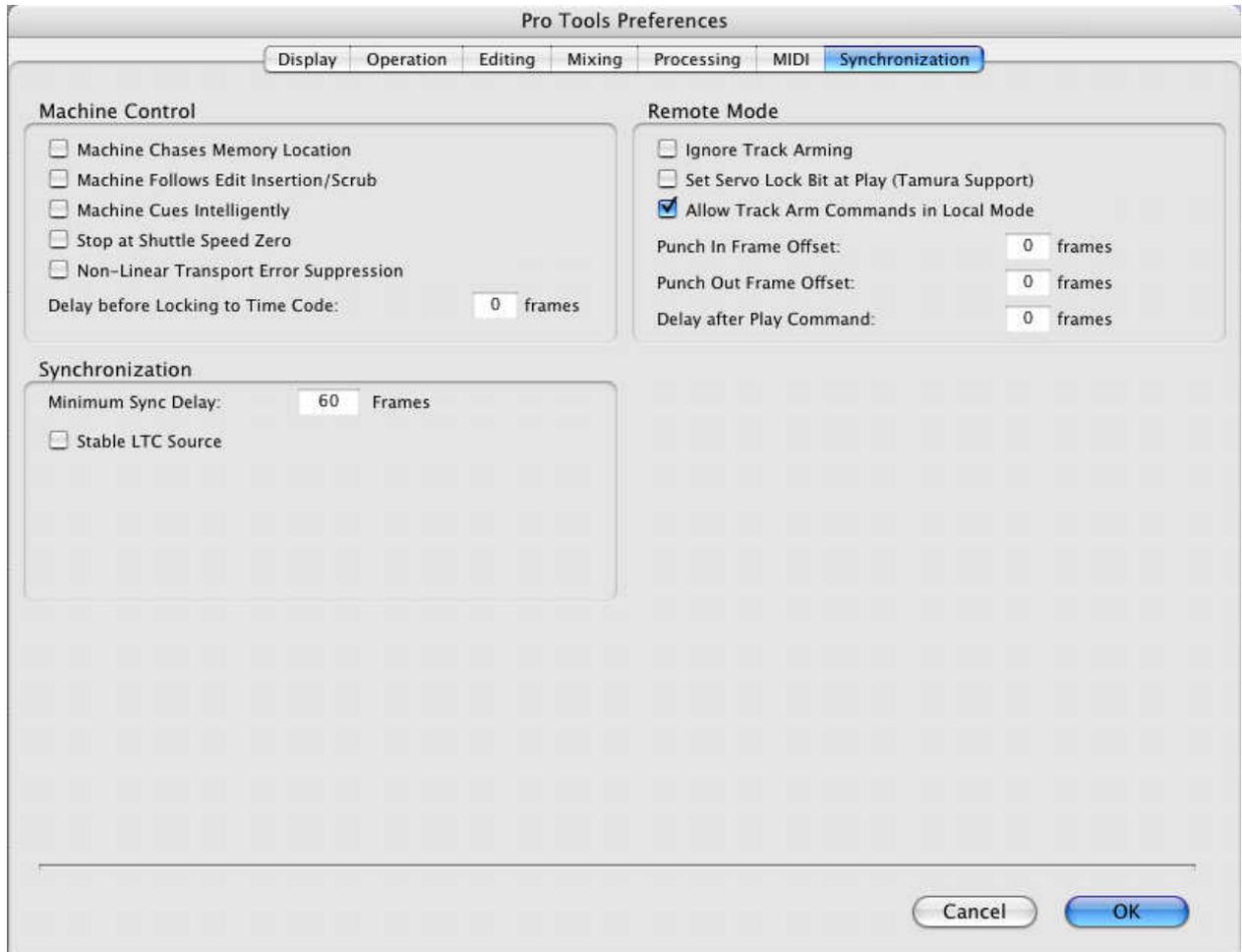
Select the *Operation* tab.
  - Check that the *DestructivePunch File Length* is appropriate.
  - Click *OK*.
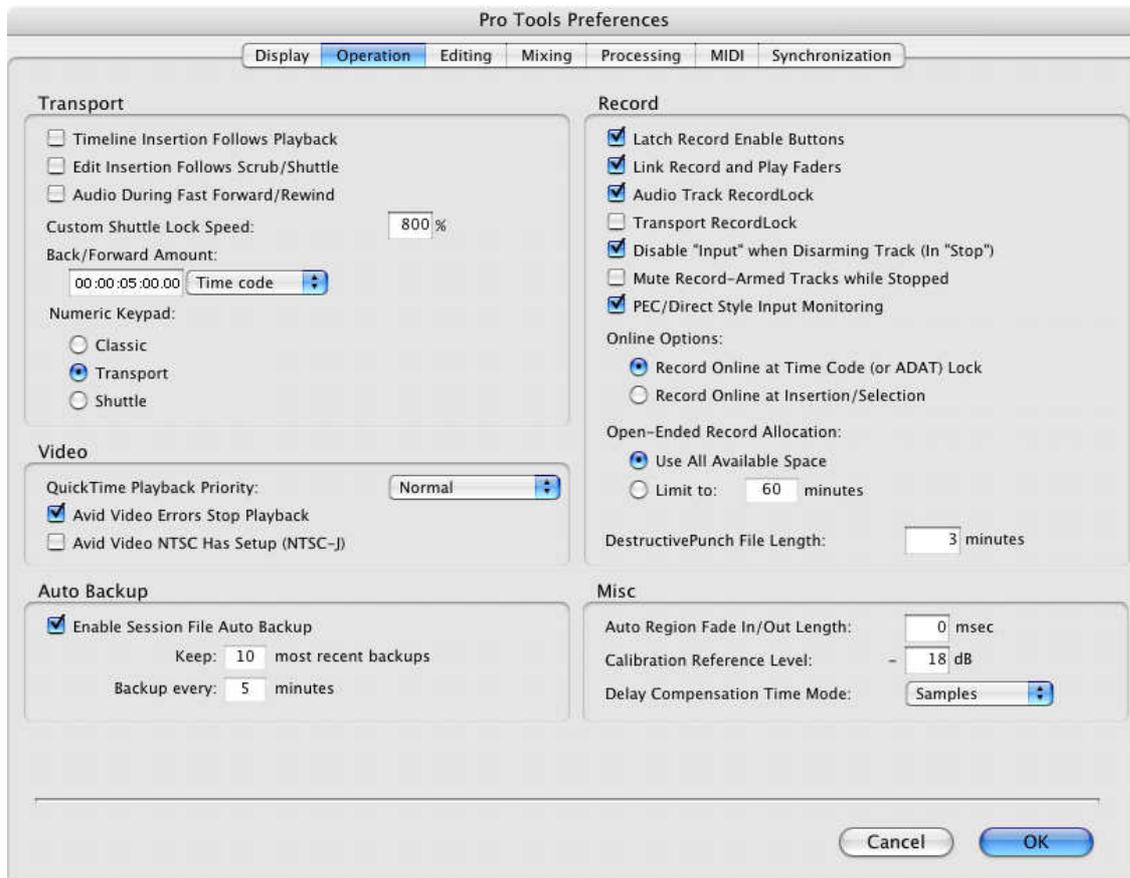
Destructive Punch

You can use Destructive Punch or Quick punch, this is how to enable Destructive Punch.

1) Enable *Options > Destructive Punch,* and check that the *Record* key on the transport bar shows *'dp'.*

2) Select all record tracks.

3) Option-click (Mac) or Alt-click (Windows) on one of the stem tracks' *R* buttons to enable destructive punch recording. Ensure that all *R* buttons on selected tracks are blue.

3) Format the stem tracks by clicking on *Options > Prepare DPE Tracks.*

Appendix A: RS422 1:1 (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	9 pin 'D' Male on 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-	8	2	White
	9	9	

CB Electronics

Loddonside, Lands End House, Beggars Hill Road, Charvil, Berkshire, RG10 0UD, UK
Tel +44 (0) 1189 320345   Fax +44 (0) 1189 320346
http://www.colinbroad.com E-mail Support@colinbroad.com