## Pec - Direct Remote For DAW's (Revision 2 Software)

The PD-1 is a new approach to DAW monitoring. Film pioneered multi-channel recording, some current mixes can have over 200 separate elements in any section. The combination of multiple multi-channel segments with multi-format delivery requirements has forced film dubbing mixers to develop a flexible way of working which demands an appropriate monitoring system. Two main elements have evolved: firstly the concept of stems, premixed multi-channel elements, typically music, dialogue and effects, secondly the 'PEC-Direct' panel (PEC = Photo Electric Cell). This could also be called a 'tape-direct', "playback-direct" or today 'disk-direct', we prefer the original name 'Pec-Direct'.
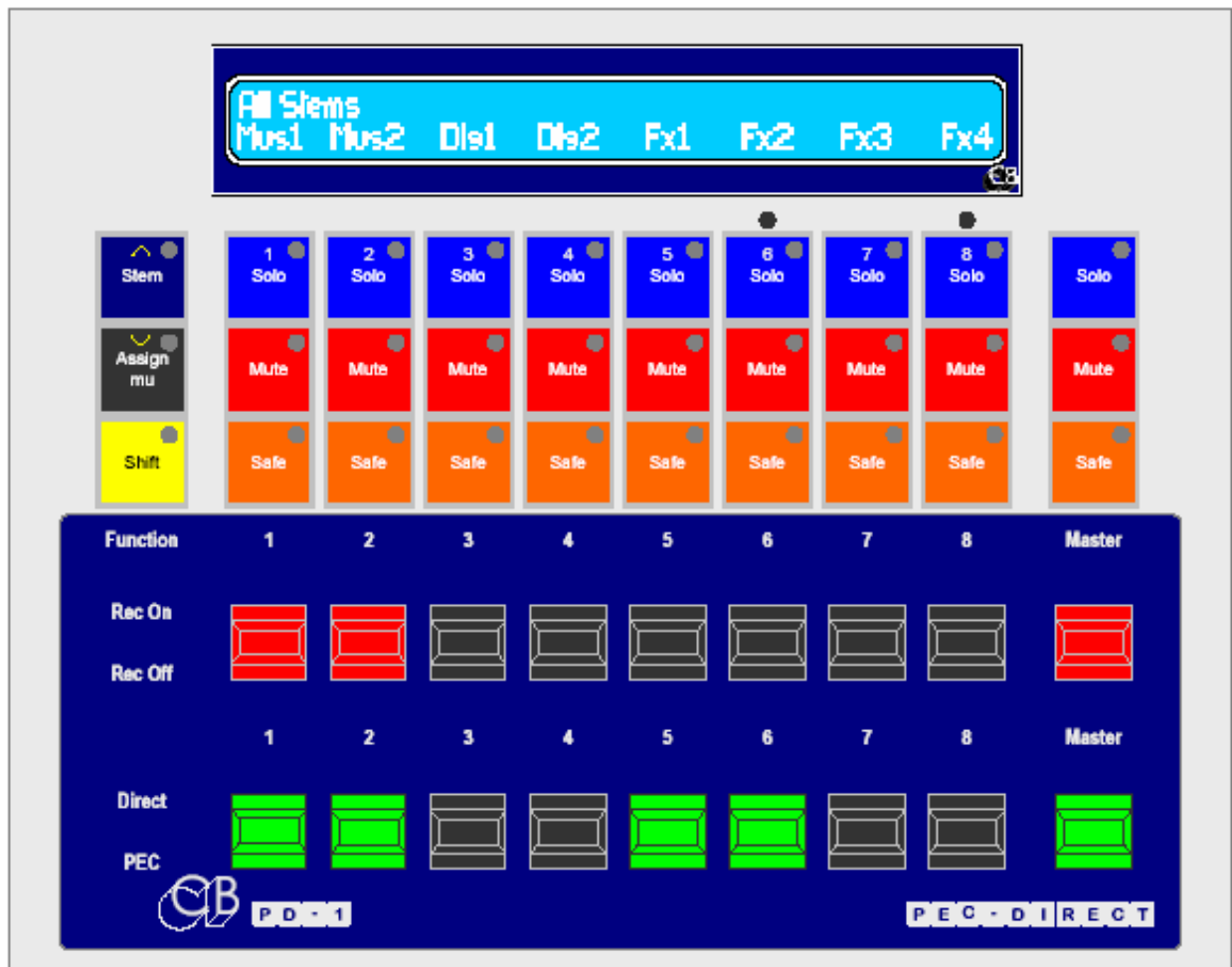
The typical monitor section in a film desk is a completely separate mixer with for example 6 stems of 8 tracks requiring 48 'Direct' inputs and 48 'Pec' inputs. The inputs are routed to up to 8 outputs (For example a 7 track mix of L, R, C, Sub/FX, LS, RS, CS). The dialogue stems may only be mono, the music stems may be two or three track or four track, and up to 7 track effect stems.

The PD-1 provides a new way to implement the 'Pec-Direct' panel concept. The solo, mute and source/playback switching are implemented within the digital audio workstation. By switching within the workstation a large number of interconnections and hardware are eliminated, for instance an outboard 48 track Pec/Direct unit would require 96 inputs!. The audio is then mixed within the workstation to generate the individual monitor feeds (LCRS...).

An added advantage of connecting directly to the DAW is that the Stem and Track names may be read directly from the DAW, stems may be generated automatically from the track names so that the user does not have to re-enter them.

Size: 7.6" x 8.7"

PD-1 Product Page

Further information including a 24 track example Protools SessionTemplate and PD-1/Protools setup instructions can be found on the **PD-1 Product** Page, here is the direct url
http://www.colinbroad.com/cbsoft/pd1/pd1.html.

New in Revision 2 Software

1) **64 Tracks on Protools**: The PD-1 now supports up to 64 tracks on Pro-tools, version 1 supported 48 tracks maximum on Protools. (Both version 1 and 2 support 64 tracks on Pyramix). Note 64 tracks will only work when connected directly to protools/pyramix and not via the RM6.

2) **Print Master**: Any combination of stems/tracks may be specified as 'Print Master' Tracks. These will switch to record/input when any other tracks switch to record/input and will switch out of record or to playback when **all** other tracks switch out of record or to playback. To select Print Master Stems use Menu 05:- Shift held Function set to '3=Print Master', Holding down the Shift key will display solo=Print Master and the print master stems may be selected using the solo keys

3) **Master Record**: When 'Menu 12:-Record Keys' is selected to '4= Master Record' the Master Record key is used as a Master Record On/Off key.
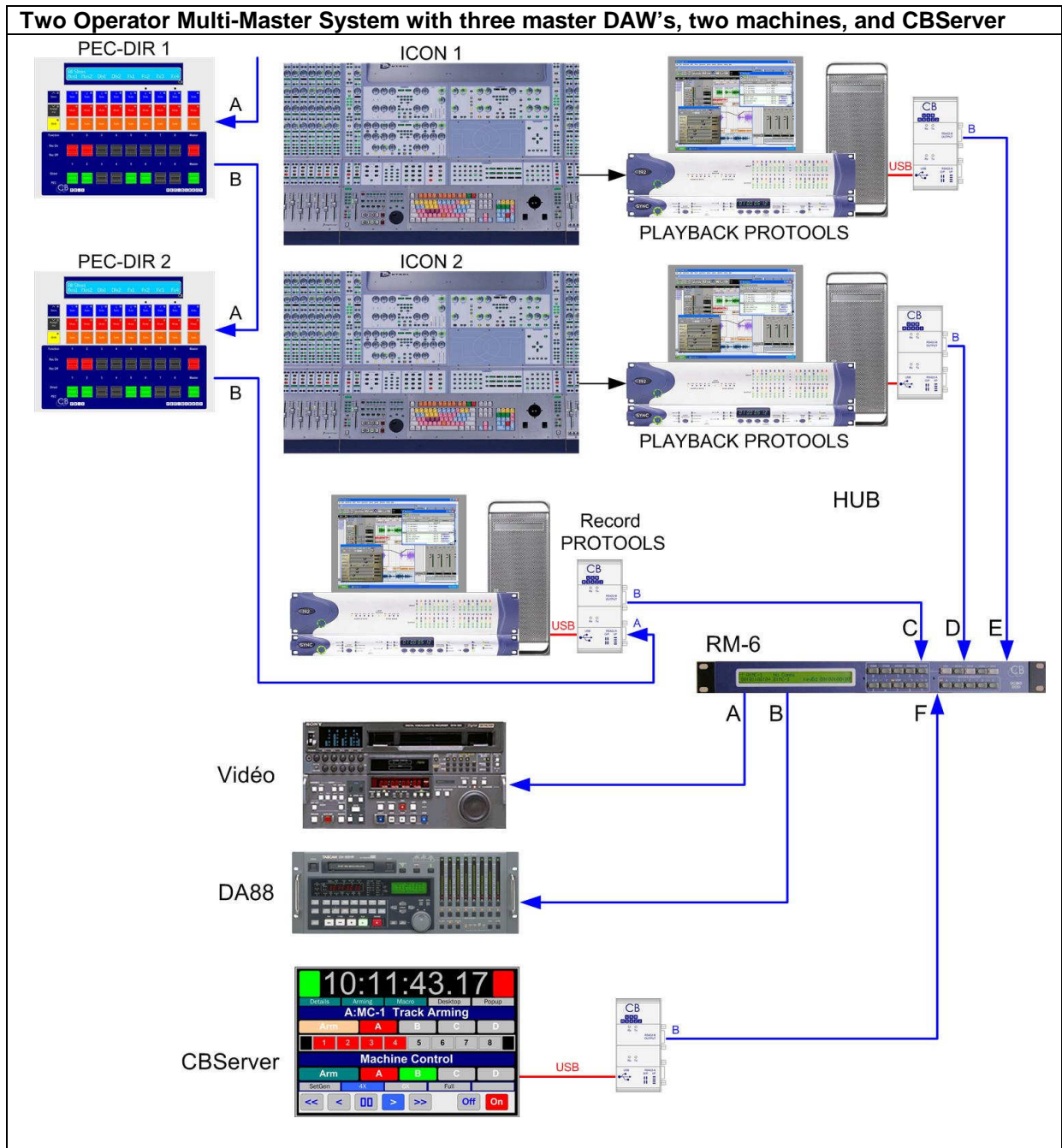
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ICON 1

A

B

PLAYBACK PROTOOLS

PEC-DIR 2

ICON 2

A

B

PLAYBACK PROTOOLS

PEC-DIR 3

ICON 3

A

B

PLAYBACK PROTOOLS

HUB

Record
PROTOOLS

RM-6

E   F

A   B   C   D

Vidéo

DA88

DAT
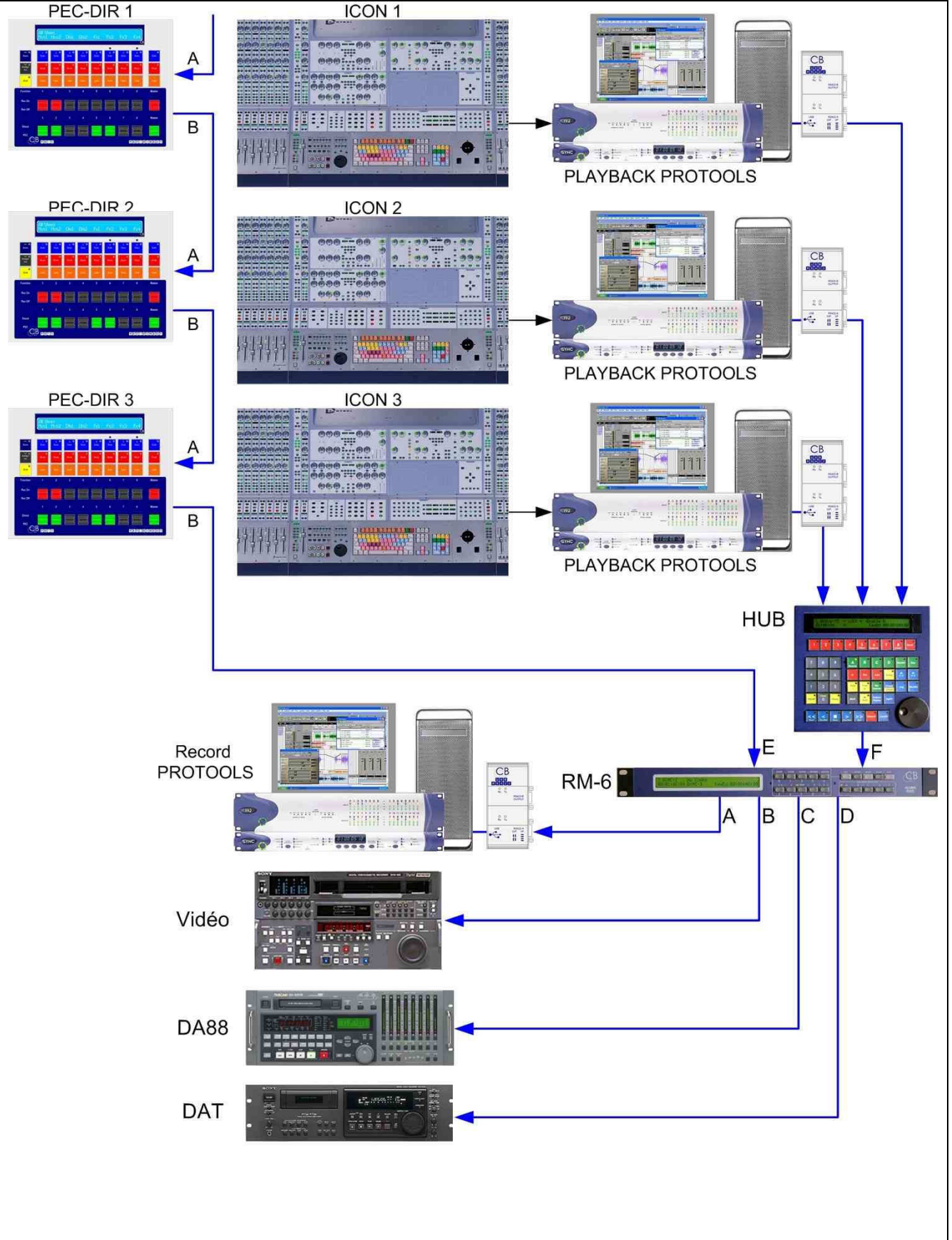
Single User ProTools Icon System, Combined Record and Playback, Internal Video

ICON

PROTOOLS

PEC-DIR

RS-422

Single User ProTools Icon System, Combined Record and Playback, Separate Video

ICON

PROTOOLS
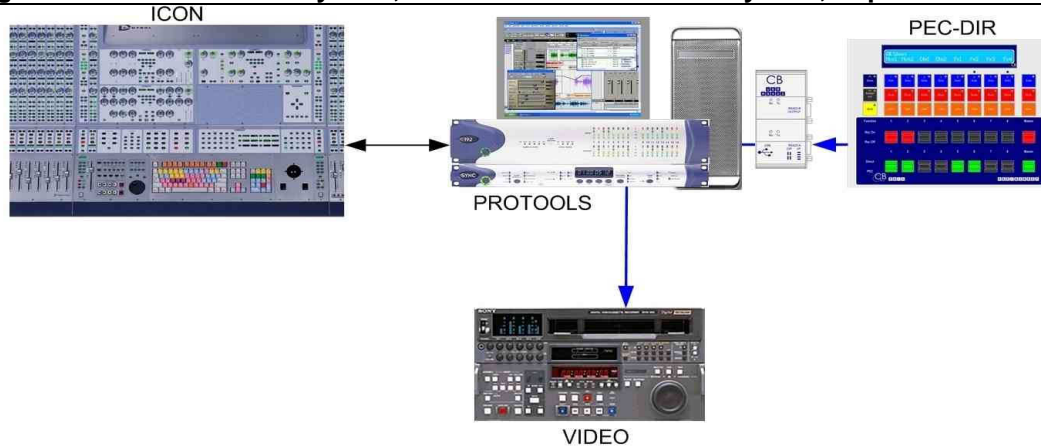
PEC-DIR

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Single User ProTools Icon System, Separate Record, Playback and Video

PEC-DIR

ICON

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SR-3/4

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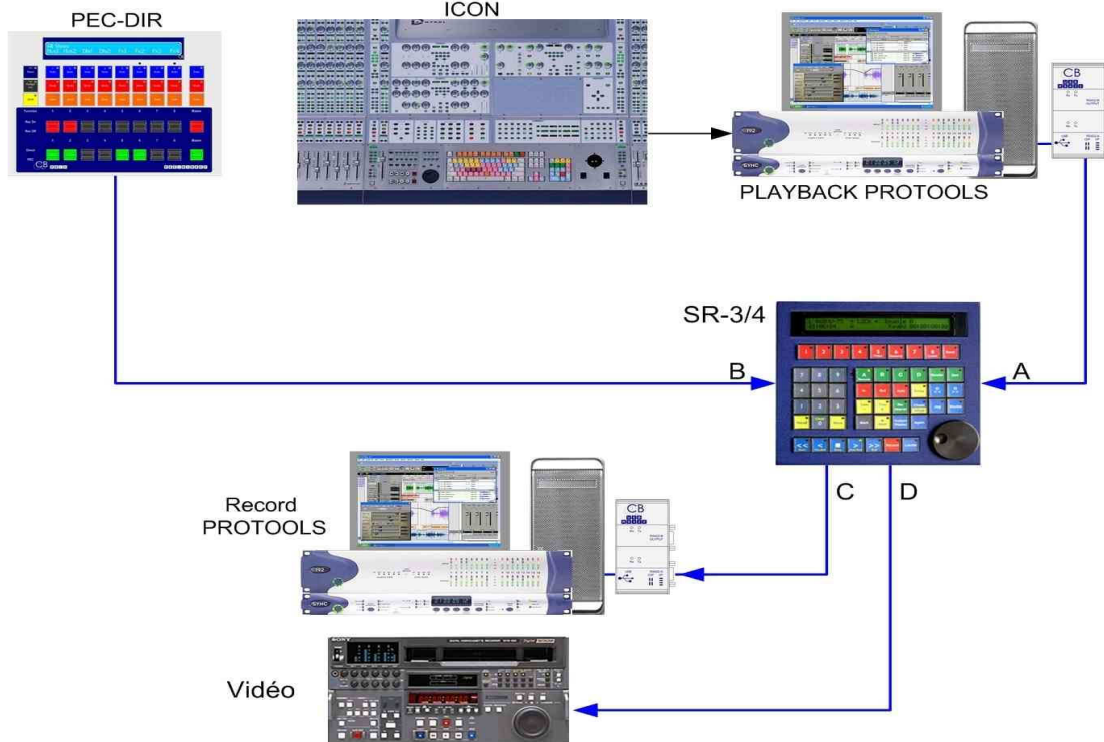
Vidéo

Pyramix Single Machine System: Internal Video

PYRAMIX   USB422   PD-1
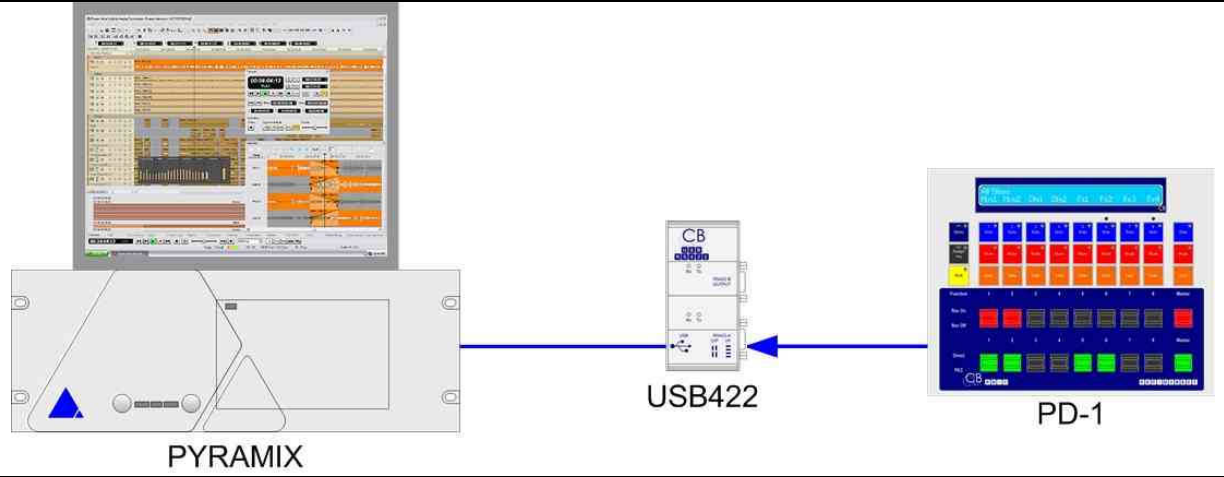
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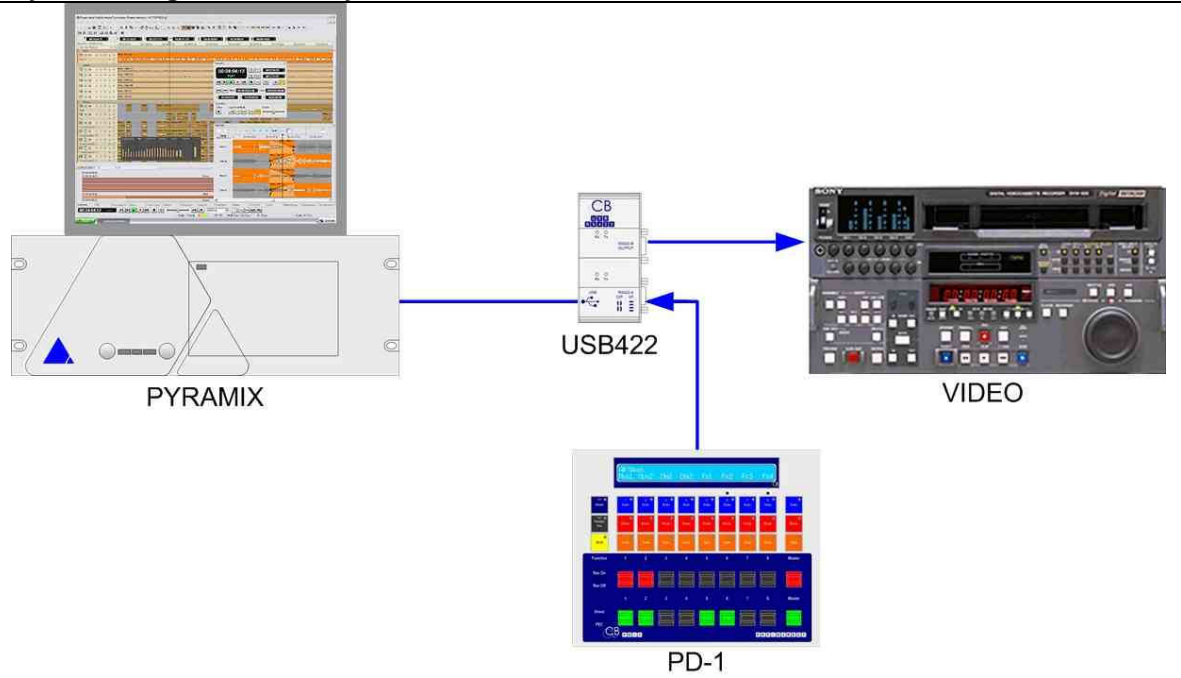
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PLAYBACK PROTOOLS

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A B C

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Connecting the PD-1 Directly to Record Protools

Connecting the PD-1 to a Record Protools via SR-4
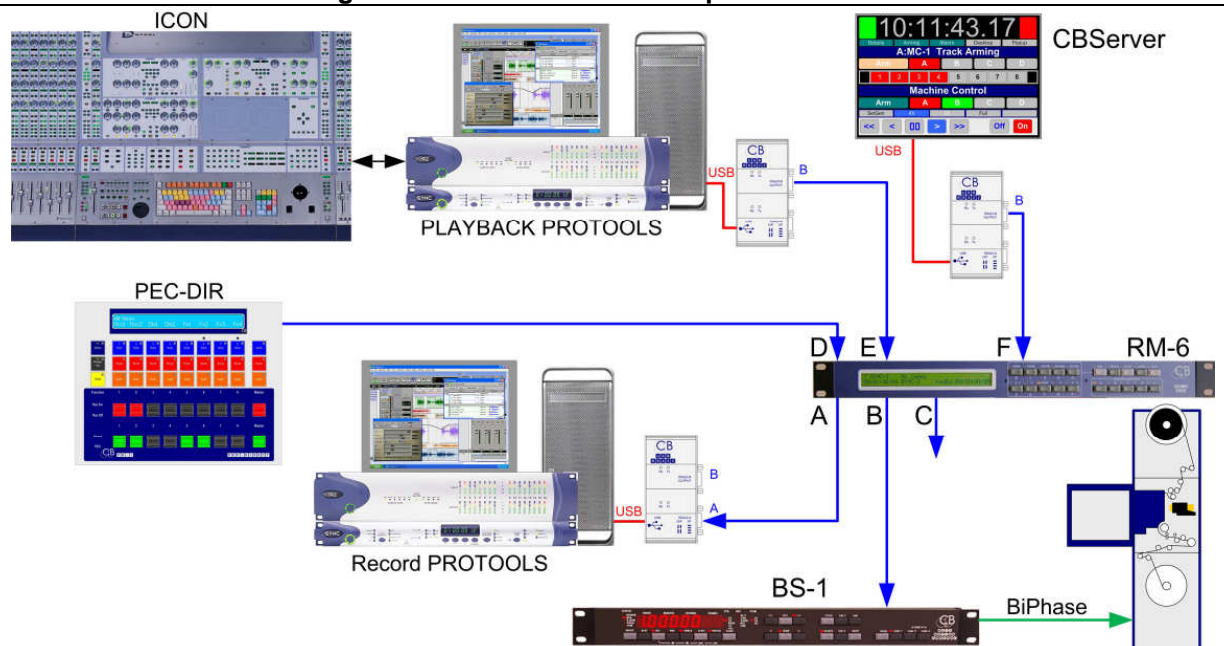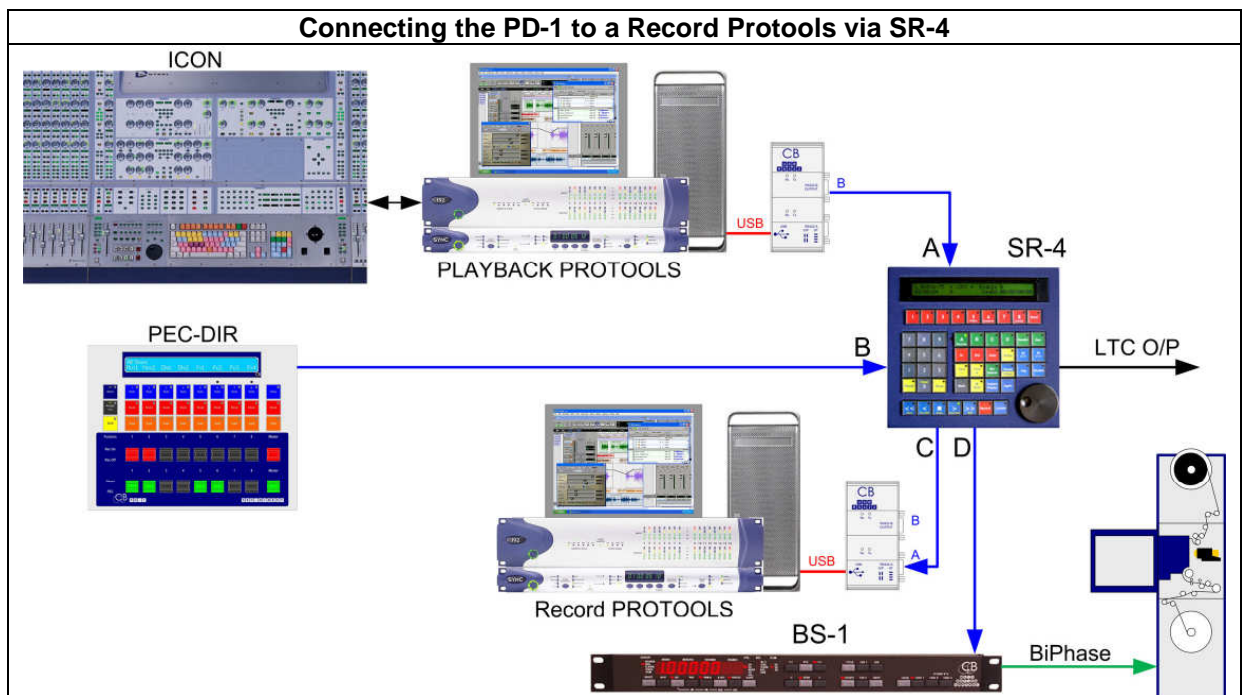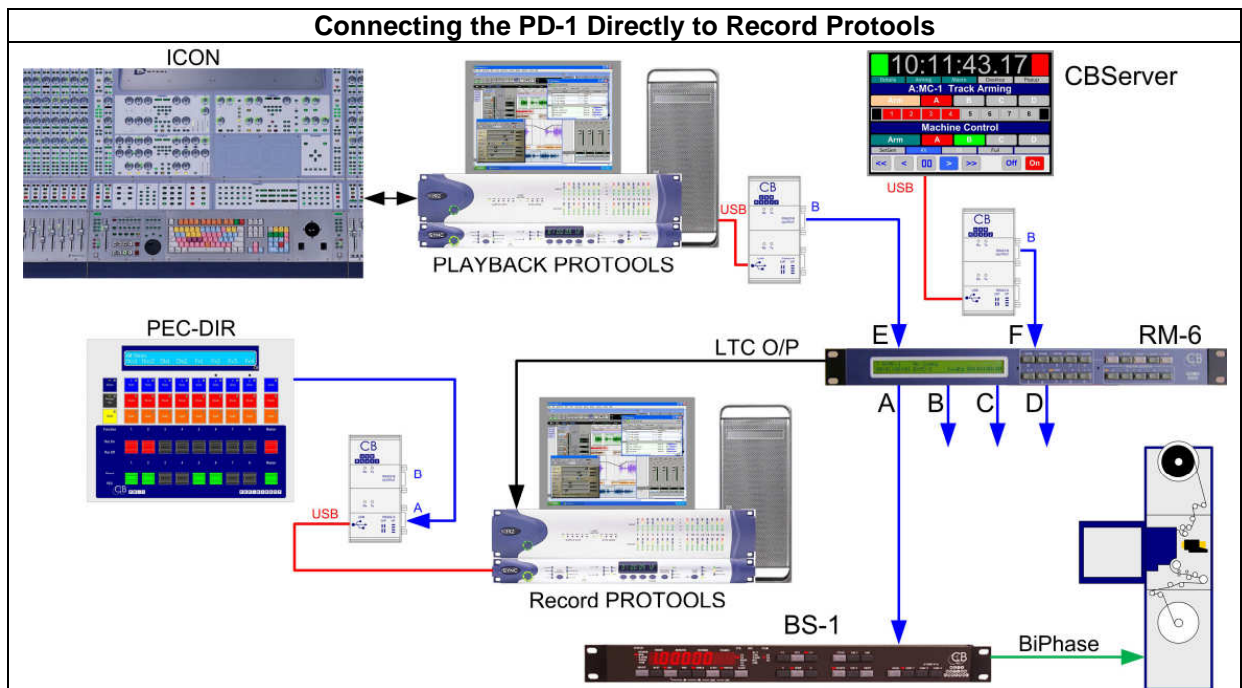
Pec - Direct Panel Operation

The panel is made up of 8 individual channels and a Master. The individual channels may be assigned to up to 64 individual tracks or one of 16 stems (Each stem can contain up to 8 tracks). The master may be assigned to any one of the sixteen Stems or one of the eight Global groups.

The sixteen stems may be defined with any combination of tracks up to a maximum of 8 tracks, the eight Global Groups may be defined with any combination of track and stems up to a maximum of 8. At Global group level the panel can control up to 64 tracks and at Stem level the panel can control up to 8 tracks.

Solo In Place

When Recording within the replay DAW special consideration must be given to solo, the Record

(Stem) Solos must be separated from the replay solo's or solo in place will not work as expected. The PD-1 provides two menu options to facilitate this
1. Menu 10 : Solo using Mute
2. Menu 11: Internal solo safe

The actual set-up will depend on both the configuration and the workstation used, see the appendix for further information.

If Solo in Place is configured correctly, with the PD-1 is selected to Direct, Solo any playback channel and you will hear Solo In Place (The playback channel routed via the pan controls or panner, complete with any reverb or effect).

Display

Stem

```
 Dlg1            ProT48
 00:00:00:00
   L     R    C    Sub   Sl    Sr
```

Top line: Current Stem Name, DAW Name, and DAW Position
Bottom line: Track assigned to each channel of the selected stem.

Global Group

```
 Global 1        PMX-48          00:00:00:00
 Dlg1  Fx1  Mus1  Aux1
```

Top line: Global Group Number, DAW Name, and DAW position.
Bottom line: Stems/Tracks assigned to each channel

Full Track Name

In Stem mode the full name of the track assigned to a channel will be displayed for 5 seconds in the centre of the top line whenever a channel key is depressed.

Stem Name

In Global mode the name of the stem assigned to a channel will be displayed for 5 seconds in the centre of the top line whenever a channel key is depressed.

Keys

STEM

The Stem key is used to switch between Stem and global display modes.. To select a stem from a global display depress the [Stem] key, the LED will flash for approximately 3 seconds and '**Select Stem**' will be displayed. Whilst flashing, depressing any stem key will display the selected Stem.

Stem LED Off
Global Group mode: Stems are displayed and adjusted, if enabled (See Setup) individual channels may also be displayed. Use the [Assign] key with channel Solo or Mute keys to select Stems or channels.

Stem LED On
Stem Mode: Channels belonging to an individual stem are displayed and adjusted. Use the [Assign] key with channel Solo or Mute keys to select channels.

Stem LED Flashing
Select Stem Mode: Select a stem to expand and show channels by using a Solo key.

ASSIGN

Assign is used to select tracks to a stem, select tracks/stems to a group and select the current stem/group. To use depress and hold the Assign key, then use the mute and solo keys to select as follows.

The channel Solo key will increment the Selected Track or Stem Name assigned to its channel.
The channel Mute key will decrement the Selected Track or Stem Name assigned to its channel.

The Master Channel Solo Key will increment the Selected Stem/User Group for the Panel.
The Master Channel Mute Key will decrement the Selected Stem/User Group for the Panel.

Shift

Shift+Assign will enter Setup and exit Setup, On entry setup will return to the last used menu, to exit use Shift+Assign twice, first to return to the root menu return then to exit.

When the shift key used with the solo keys, its action is determined by Menu 05:- Shift held Function, for example if '2= Solo Safe' is selected then holding Shift down will display 'Solo= SoloSafe and the solo keys are used to setup solo safe.

The shift key also functions as a sticky key, the LED will stay illuminated for approximately 3 seconds and may be used in the following key combinations:-
Shift followed by Master Solo to clear all solos, followed by Master Mute to clear all mutes, followed by Master Safe will clear all safes

Channel SOLO

If assigned to a Track the channel solo will solo the selected track, The LED will illuminate when the track is soloed.
If assigned to a Stem the channel solo will solo all tracks in the selected Stem. The LED will illuminate when all of the tracks in the stem are soloed and flash if some but not all of the tracks are soloed.
Solo's are additive.

Channel MUTE

If assigned to a Track this key will mute the selected track, the LED will illuminate when the track is muted.
If assigned to a Stem the channel mute will mute all tracks in the selected Stem. The LED will illuminate if all of the tracks in the stem are muted and flash if some but not all of the tracks are muted.
The Mute LED's will not illuminate to indicate mute due to Solo.

Channel SAFE

If assigned to a Track the channel safe will safe the selected track. The LED will illuminate when the track is safe.
If assigned to a Stem the channel safe will safe all tracks in the selected Stem. The LED will illuminate when all of the tracks in the stem are safe and flash if some but not all of the tracks are safe.
As an alternative this key may be configured as a Ready key.

Channel record Paddle

Channel PEC-Direct Paddle

Master MUTE

The Master Mute will mute all tracks/Stems in the selected Stem/User Group. The LED will illuminate if any of the channels are muted.

Shift followed by Master Mute will clear all Mutes even those not defined by the panel.

Master SOLO

The Master Solo will Solo all tracks/Stems in the selected Stem/User Group. The LED will illuminate when any of the channels are in solo.

Shift followed by Master Solo will clear all Solos even those not defined by the panel.

Master Safe

The Master Safe will safe all tracks/Stems in the selected Stem/User Group. The LED will illuminate when any of the channels are safe.

Shift followed by Master Safe will send a Track Punch enable command to all DAW tracks that are NOT sate.

Master record Paddle

4) When 'Menu 12:-Record Keys' is selected to '4= MastRec' the Master Record key is used as a Master Record On/Off key.

Master PEC-Direct Paddle
Solo-Safe

When Menu 05:- Shift held Function, is set to '2= Solo Safe' when the Shift key is held depressed and the message 'Solo= SoloSafe' is displayed in the user message display. In this mode the Solo keys are used to set/clear the Solo-Safe data. The Solo Safe function operates differently depending on the setting of Menu 14-Solo Command

1. **Use Mute**: No Solo Safe commands are sent to the DAW and the SoloSafe status is set and read internally. To enable solo in place, set all stem tracks to solosafe in the DAW.

2. **Solo**: SoloSafe commands are sent to the DAW. The SoloSafe tallies are updated from the DAW.

UNIT SETUP

To enter set-up depress [Shift] and [Assign] simultaneously, after power on the Root Menu will always be displayed, subsequent entries into the set-up will return to the last accessed menu. To exit set-up depress [Shift] and [Assign] simultaneously.

Once in the Set-up Menu the solo keys numbered 1-8 are used to select parameter values, The [Stem ^] key is used to move up the menu tree, the [Assign v] key is used to move down the menu tree. The Root menu is at the top of the menu tree

The following parameters may be configured by the user.

Root Menu

```
Root  01:- Select Set-up Required
1= Unit 2= Serial-Out
```

1= Unit   This selects parameters that control the operation of the unit
2= Serial-Out   The Sony P2/Midi Output port and should be connected to the controlled device. urrently
                    only Sony P2 is implemented.

Track/Stem Assign

```
Menu  02:- Track/Stem Assign
1= On 2= Locked  3= Auto-Stem
```

1. **On:** Holding the Assign key depressed the Mute and Solo keys may be used to select tracks and stems.
2. **Locked:** The Track and Stem assignment is locked. When the assign key is depressed a warning message is displayed. Note: The stem/group assign key still works.

3. **Auto-Stem:** The track names are read from the DAW, the Stem assignment is then set depending on the stem names provided that Menu08 Track and Stem Names are assigned to '3= S4T4' or '4= Stem Track'. Once finished track assignment is locked

Start from Track Number

```
Menu  03:- Start from Track Number
-1    +1    -10    +10   =01
```

This menu sets the starting track number for the PD-1, normally it will be set to Track 1

-1	The Solo-1 key will Decrement the Start Track Number
+1	The Solo-2 key will Increment the Start Track Number
-10	The Solo-3 key will subtract 10 from the Start Track Number
+10	The Solo-4 key will add 10 to the Start Track Number

Number of Tracks

```
Menu  04:- Number of Tracks
-1    +1    -10    +10   =24
```

This menu sets the starting track number for the PD-1, normally it will be set to Track 1

-1	The Solo-1 key will Decrement the number of tracks
+1	The Solo-2 key will Increment the number of tracks
-10	The Solo-3 key will subtract 10 from the number of tracks
+10	The Solo-4 key will add 10 to the number of tracks

Shift held Function

```
Menu  05:- Shift held Function
1= Off 2= Solo Safe  3= Print Master
```

This menu determines the function of the Solo keys and Leds when the Shift key is held depressed

1) **Off:** No function, Solo = Solo
2) **Solo Safe:** The Solo keys are used to enable/disable Solo-Safe.
3) **Print Master:** The Solo keys are used to enable/disable Print Master Tracks

Install Template

```
Menu  06:- Install Template
1= No Change 2= 24T Name 3= 24T Logical
```

This menu allows preset templates to be installed
1. No Change:
2. 24T Name: 24 Track, 4 Stems, Stem Name & Track Name Display
3. 24T Logical: 24 Track, 4 Stems, Stem Number & Track Number Display

Stem & Track display

```
Menu  07:- Stem & Track Display
1= Logical  2= Track 3= Stem & Track
```

The track names as Logical track numbers or read from the DAW.

1. **Logical:** Both Stem and Track names are logical
2. **Track:** The track name is read from DAW, the first 4 characters of the track name are displayed. Internal Stem names are used see Named Stems below.

3. **Stem 7 Track:** Both Track and stem names are read from the DAW, See menu 04 for the Track name format.

Logical Track names
Track 1..64 :   Displayed as **Tk01..Tk64**

Logical Stem Names
Stem 1..16:   Short Stem names St01 ..St16

Named Stems
Dialogue Stem: Displayed as **Dialogue 1 .. Dialogue 4** or **Dlg1.. Dlg4**
Music Stem: Displayed as **Music 1 .. Music 4** or **Mus1 .. Mus4**
Effects Stem: Displayed as **Effects 1 .. Effects 4** or **Fx-1 .. Fx-4**
Aux Stem: Displayed as **Aux Stem 1 .. Aux Stem 4** or **Aux1 .. Aux4**

Note 1 The Stem name read from the first named track in the stem.
Note 2 Only the first four characters of the Track Name will be displayed over the channel.

Stem & Track Name Format

```
Menu 08:- Stem & Track Name Format
1=Track  2=S2T 3=S3T 4=S4T 5=Stem Track
```

On DAW's which do not have separate Stem Names the Track name can be used for both the Stem and Track name. This menu is used to decode the track name.

1. Track: Track Name only, no stem name
2. S2T: First 2 characters are the Stem Name, The following characters are the Track Name.
3. S3T: First 3 characters are the Stem Name, The following characters are the Track Name.
4. S4T: First 4 characters are the Stem Name, The following characters are the Track Name.
5. **Stem Track:** Stem and track are read from the DAW, Stem Name followed by Track name separated by a space' ' full stop'.', comma ',' or underscore '_' , e.g. 'Music Left'. Music.Left, Music_Left. The short Stem and Track Names are displayed as the first four characters of each.

Note 1 The Stem name storage holds a maximum of 8 characters per stem.
Note 2 The Track name storage holds a maximum of 8 characters per track.
Note 3 The defined format is global and applies to all tracks.

Using Long Stem/Track names in Protools

When using long track names protocols will condese them and remove spaces and full stops. To use long track names use '_' as a separator between stem and track names.

Number of Global Groups

```
Menu 09- Number of Global Groups
1=  2= 3= 4= 5= 6= 7= 8=
```
Select the number of global stem groups to be used

Number of Stems

```
Menu 10- Number of Stems
1= 2 2=4 3=6 4=8 5=10 6=12 7=14 8=16
```

Select the number of stems to be used

User Group Contents

```
Menu 11- User Group Contents
1= Stems Only 2= Stems+Tracks
```

User Groups may be restricted to stems only or stems and tracks.

Record Paddles

```
Menu 12:- Record Keys
1=Record 2=Arm Only 3=Arm&Stay 4=MastRec
```

Record   The Track arm keys send a Track Arm Command followed by Record On command
All arming removed when not in play.

Arm Only   The Track arm keys saend a track Arm Command Only.
All arming removed when not in play.

Arm & Stay In this mode the tracks are enabled using the channel keys.

Master Rec As per Arm & Stay and the **Master Record** key becomes a Master Record
On/Record Off key.

Link Safe to Pec/Dir Keys

```
Menu 13- Link Safe to Pec/Dir keys
1= On 2= Off
```

When On the Safe keys are linked to both the records and Pec/Direct keys inhibiting both Record
and Direct selection.
.

Solo Command

```
Menu 14- Solo Cmd
1= Use Mute, 2= Solo
```

Solo may be implemented by using either the Solo or Mute command, select according to the DAW.
One advantage of using Mutes for solos is that the Solo mute width is limited by the setting of the
number of Tracks.

Record Safe Setting

```
Menu 15- Record Safe Setting
1= Internal 2= External
```

1. **Internal**: No commands are sent to the DAW and the Record Safe status is set and read
   internally.

2. **External**: record Safe commands are sent to the DAW. The Record Safe tallies are updated
   from the DAW.

Wait For Lock

```
Menu 16- Wait for Lock
1=  Yes  2= No
```

This menu locks out track arming commands when slewing to lock.

If Protools chasing timecode this menu must be set to '1= Yes' as if protocols receives a track arm or edit command when not locked this aborts the locking process and Protools will lock out of sync!

When using an external synchroniser (RM-6) then set to '2= No' track arm commands are passed to the controlled machine and the 'Edit On' command is delayed until the machine is locked.

After Auto Stem

```
Menu 17- After Auto-Stem
1=  On  2=Lock
```

This menu determines the Track/Stem Assign Mode after Auto-Stem, see menu 02

Panel Type

```
Menu 18- Panel Type
1=  Master 2=Slave
```

The PD-1 connected to the Workstation or CB Synchronizer is the master any PD-1 connected to another PD-1 should be set up as a Slave. The system will operate with all units set to Master but some operator interaction may occur if commands are simultaneous.

Test Display/Factory Setup

```
Menu 19- Test/Display
1=  Position 2= Blank 3= Keys 4= Factory
```

Position   Display position information from controlled device
Blank   Position display
Keys   Display key numbers of depressed keys
Factory   Use with caution, this will reset the unit to its factory default condition! When Set exit
                  from the setup menu will take about 4 seconds to write the factory data.

Factory Setup
        Stem1 = Tracks1-8, Stem 2= Tracks 9-16, Stem3= Tracks 17-24, 24 Tracks, 4 Stems,
        Global1 with Stems 1,2 & 3
        Track Assign: 1= On
        Stem & Track display: 1= Logical
        Stem & Track Name Format: 1= Track
        Number of Global Groups: 1=
        Number of Stems: 2=4
        Number of Tracks: 3=24
        User Group Content: 1= Stems Only
        Record Keys: 1= Record
        Link safe to PEC/Dir keys: 1= On
        Solo Cmd: 1= Use Mute
        Solo Safe setting: 1= Internal
        Record Safe Setting: 1= Internal
        Panel Type: 1= Master
        Test Display: 1= Position

Port B Menu
The Port B menu is used to define DAW specific parameters

Stem and Track Name Request

```
B:ProT24 20- Stem & Track Name Request
1= Combined 2= Separate
```

1. Combined: Default setting for ProTools
2. Separate   Default setting for Pyramix

Position

```
B:ProT24 21- Position
1= LTC 2= VITC 3= L+V 4= Tim-1 5= L+V+T
```

Sony 9 pin allows for LTC, VITC and Timer 1 and Timer 2 position requests

Maximum Tracks per Command

```
B:ProT24 22- Maximum Tracks per Command
1= 48 2= 96
```

Protools can only accept 48 tracks per command

Track Arm Commands

```
B:ProT24 23- Track Arm Command
1= Extended 2= Normal
```

Use Extended Track Arm commands when connected to Protools or Pyramix, use Normal Track Arm commands when connected to recorders that do not understand the extended protocol.
Note: Only the extended protocol allows control of Solo, Mute, Pec/Direct, Safe

Record tracks

```
B:ProT24 24- Record tracks
1=Off 2=Alg 3=8 4=16 5=24 6=32 7=40 8=48
```

This determines the maximum number of tracks controlled by the standard record command

Command Interval

```
B:ProT24 25- Command Interval
1=Short 2=Long
```

Normally set to short, set to slow if commands are unreliable

Protocol

```
B:ProT24 26- Protocol
1= Sony P2 2= MMC
```

Select the Protocol, Currently only Sony P2 is supported

Reading Stem and Track Names

To read and display the track and stem names correctly the PD-1 must be set correctly, after a Factory Reset (Unit | Test/Display 4=Factory) the following menu options must be set:

Unit | Track/Stem Assign: This must be set to 1= On in order to read the track names, or 3=Auto-Stem to read track names and build stems
Unit | Stem & Track Display: This must be set to Track or Stem & Track dependant on your track naming convention.

Unit | Stem & Track Name Format: Set according to your stem/track naming convention, we recommend 5= Stem Track.

Serial-out | Stem & Track Name Request: This is DAW dependent and should be set as follows
>   1=Combined for ProTools
>   2= Separate for Pyramix

With the latest software this is automatic provided that the device name is set correctly in the DAW.

Auto-Stem

In Order for the auto-stem logic to work correctly the stem and track names should read correctly and the unit set as detailed above. Then select 4= Auto-stem in the Track Assign Menu, leave setup and the rest is Magic! If you are having problems the email us a text file with a list of the track names, the setup that you are using, and the date of the software and we will try and help.

Rear Panel Connections

Serial In

RS422 input to the PD-1, used when daisy chaining multiple units, or to save/recall track assignments from an external computer. A special converter card is available to connect power to the PD-1 via this input. Use the CB Electronics USB-422 (USB to RS422) or similar when connected to a windows pc to upload new firmware, or save/recall PD-1 configurations using the support software.

Serial Out

RS422 output from the PD-1 should be connected to the machine emulation input of the DAW, or when multiple PD-1's are used to the Input of the next PD-1.

Used with a UR-MIDI converter and with the Output (Port-B) protocol selected to MIDI can be used to control a DAW using MMC (Not yet Implemented).

Software Updates

May be downloaded from our website and installed by the user. For details go to the customer area on our website, http://www.colinbroad.com/cbsoft/pd1/pd1.html and download the install program and updates.

Appendix
Using the PD-1 with a Pro Tools

The PD-1 may be used on Pro Tools version 7.2 and later. See separate document "pd1template.pdf" for full details.

Connect the output of the PD-1 to Pro Tools via the CB Electronics USB-422 (A suitable Driver will be required) or similar device. Configure Port-A on the USB-422 as the Remote input to Pro Tools and enable. A standard Sony 9 pin cable may then be used to connect the Output of the PD-1 to port A on the USB-422.

Pro Tools set-up : Single Pro Tools
1) Build multi-channel tracks (5.1…7.1) for each stem so that the pan will operate correctly
2) Pro-Tools Preference >Synchronisation > Allow Tracks Arm Commands in Local Mode.
3) Route the multi-channel track outputs to individual mono tracks for recording
4) Mix the stem outputs to a composite stem
5) Root the composite stem outputs to your monitoring system
6) Enable solo safe on the multi-track stem, the individual record stems and the composite stems
7) Connect the PD-1 and set for Solo via mute and internal solo safe.
8) On the PD-1 enable solo safe the composite stem.
9) Solo safe any effect send and returns (For example reverb)

Pro Tools set-up: Separate Record Pro Tools
1) Route the track inputs from the stems to individual tracks to record
2) Mix the stem outputs to a composite stem
3) Root the composite stem outputs to your monitoring system
4) Enable solo safe on the composite stems
5) Connect the PD-1 and select Solo using Mute or Solo.
6) On the PD-1 enable solo safe the composite stem.
7) On your playback system Solo safe any effect send and returns (For example reverb)

The suggested ProTools signal path below may be used with or without a separate record ProTools. The PD-1 controls the record and monitor on the stems and on the final mix (comp). Care should be taken over the track names so that they can recognised in the first four characters. For instance two stems 'Music1' and 'Music2' will both show as 'Musi', use 'Mus1' and 'Mus2' or equivalent.

Using the PD-1 with Pyramix
The PD-1 may be used on Pyramix version 5.XX.XSP2 and later.
Connect the output of the PD-1 to Pyramix via the CB Electronics USB-422 (A suitable Driver will be required) or similar device. Configure Port-A on the USB-422 as the Remote input to Pyramix and enable. A standard Sony 9 pin cable may then be used to connect the Output of the PD-1 to port A on the USB-422.

PD-1 Master/Slave Setting
On the PD-1 connected to the RM-6 , SR-3, or DAW Menu 18-Panel Type must be set to 1= Master

Using the PD-1 with the UR-422
Connect the selected UR422 output port to the PD-1 Input, Connect the PD-1 Output to the DAW in the same way as described above.

Using the PD-1 with the SR-4 or RM-6
Connect the PD-1 Output to the selected SR-4/RM-6 input, Connect the selected SR-4/RM-6 output to the DAW in the same way as described above.

On the SR-4/RM-6 select the DAW, Record Enable the DAW Port and make the following setups

Setup | Iface | Record | Menu 42- Record Tracks
Match the number of tracks on the PD-1 this will improve the name update speed.

Setup | Ext |Menu 106- DAW Port for PD-1
Select the port to which the DAW is connected.

Setup | Ext |Menu 099- External Machine ID
This menu determines the ID of the controlled machine and the Name displayed in the PD-1

Setup | Unit | Generic | Menu 032- Input Ports
Select as required to suit the number input ports used.

Note 1: The PD-1 must be connected to an input port.
Note 2: SR-4 Track arming will not operate on the SR-4 when directed to the machine assigned to the PD-1.
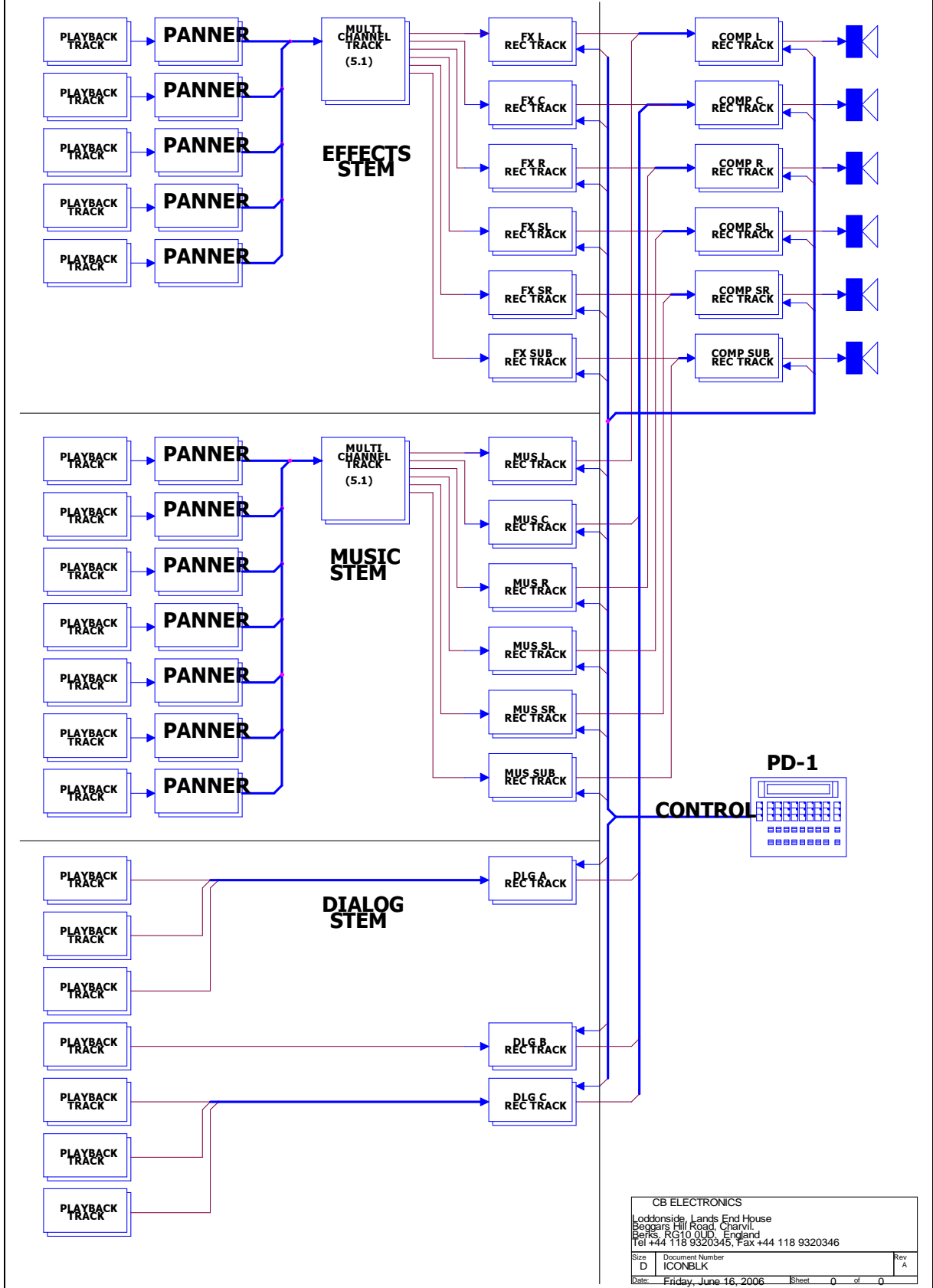
SR-4, PD-1 Connections

Port A: Normal or Tx-Rx Invert, dependant on internal Links
Ports B, C: Tx-Rx Invert cable

RM-6, PD-1 Connections

Port F: Normal
Port E: Normal or Tx-Rx Invert, dependant on internal links
Port D, C, B: Tx-Rx Invert cable

Suggested ProTools Signal Path

EFFECTS STEM

PLAYBACK TRACK → PANNER
PLAYBACK TRACK → PANNER
PLAYBACK TRACK → PANNER
PLAYBACK TRACK → PANNER
PLAYBACK TRACK → PANNER

MULTI CHANNEL TRACK (5.1)

FX L REC TRACK → COMP L REC TRACK
FX C REC TRACK → COMP C REC TRACK
FX R REC TRACK → COMP R REC TRACK
FX SL REC TRACK → COMP SL REC TRACK
FX SR REC TRACK → COMP SR REC TRACK
FX SUB REC TRACK → COMP SUB REC TRACK

MUSIC STEM

PLAYBACK TRACK → PANNER
PLAYBACK TRACK → PANNER
PLAYBACK TRACK → PANNER
PLAYBACK TRACK → PANNER
PLAYBACK TRACK → PANNER
PLAYBACK TRACK → PANNER
PLAYBACK TRACK → PANNER

MULTI CHANNEL TRACK (5.1)

MUS L REC TRACK
MUS C REC TRACK
MUS R REC TRACK
MUS SL REC TRACK
MUS SR REC TRACK
MUS SUB REC TRACK

PD-1

CONTROL

DIALOG STEM

PLAYBACK TRACK
PLAYBACK TRACK
PLAYBACK TRACK
PLAYBACK TRACK
PLAYBACK TRACK
PLAYBACK TRACK
PLAYBACK TRACK

DLG A REC TRACK
DLG B REC TRACK
DLG C REC TRACK

CB ELECTRONICS
Loddonside, Lands End House
Beggars Hill Road, Charvil.
Berks, RG10 0UD, England
Tel +44 118 9320345, Fax +44 118 9320346

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Date: Friday, June 16, 2006   Sheet 0 of 0

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