

328XD AND FOSTEX RD-8

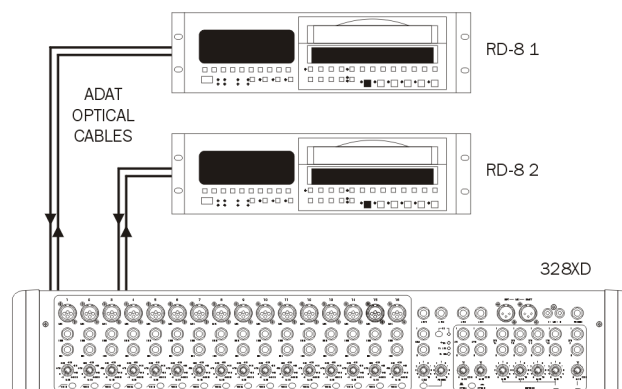
Connecting the system	2
328XD Configuration	4
RD-8 Configuration	6
Additional Information	8

CONNECTING THE SYSTEM

Audio Connections

Connect audio connections as shown in the diagram below. ADAT Optical cables must be connected from the ADAT Out ports of both the RD-8s to the ADAT In ports of the 328XD and vice versa.

The ADAT connections allow digital transfer of either direct outputs for input channels 1-16 to the RD-8s, or the 328XD's 8 Group outputs.



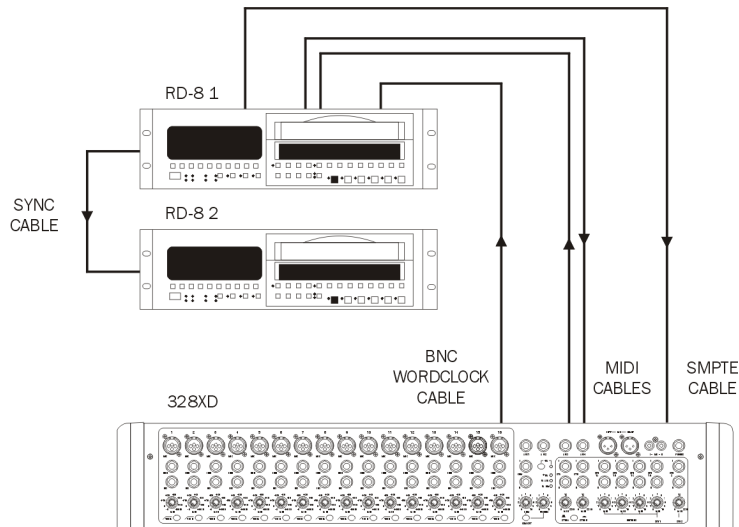
Synchronization Settings

Besides the audio connections, a BNC wordclock cable must be connected from the Master RD-8 Wordclock out to the 328XD Wordclock Input in order to synchronize the transmission of the samples.

NOTE: If 2 RD-8s are synchronized, the wordclock **MUST** be generated by the Master RD-8. If only 1 RD-8 is used, it can be set to receive wordclock generated by the 328XD.

It must be decided whether MIDI Time Code (MTC) or Longitudinal Timecode (LTC or SMPTE) is to be used to transmit the timecode from the Master RD-8 to the 328XD.

If LTC is to be used, MIDI connections must still be made, in order to enable the transmission of MIDI Machine Control (MMC). MMC is responsible for the transmission of the Transport and Locate Controls between the RD-8s and 328XD. In the following diagram only the SMPTE / LTC cable is optional.



To summarize, the connections required are as follows:

BNC Wordclock cable:

Master RD-8 Wordclock out → 328XD Wordclock In

MIDI Cables:

328XD MIDI Out → Master RD-8 MIDI In

Master RD-8 MIDI Out → 328XD MIDI In

SMPTE Cable:

Master RD-8 Timecode Out → 328XD SMPTE Timecode In

Sync Cable:

Master RD-8 Sync Out → Slave RD-8 Sync In

Optical Cables:

Master RD-8 Optical Out → 328XD 8 Track A Optical In

328XD 8 Track A Optical Out → Master RD-8 Optical In

Slave RD-8 Optical Out → 328XD 8 Track B Optical In

328XD 8 Track B Optical Out → Slave RD-8 Optical In

328XD CONFIGURATION

Wordclock

In a configuration using 2 RD-8s, the Master RD-8 must be made to be the wordclock master device. To set the 328XD to slave to this clock, enter the 328XD Menu pages by pressing the <MENU> button on the right hand side of the LCD display. Using the PARAM encoder beneath the display, scroll up or down until the 'Clock Source Sel' menu is highlighted, and press <ENTER>. Here, the clock source must be set to the external BNC source. Use the encoder to set the clock source, press <ENTER> to set the sample rate and <MENU> to return to the menu pages.

```
<Wordclock Src.>  
Internal:48.0kHz
```

Tape Ports

To ensure that the 328XD Tape Ports are set to ADAT, enter the 328XD Menu pages by pressing the <MENU> button on the right hand side of the LCD display. Using the PARAM encoder beneath the display, scroll up or down until the 'Tape Port Select' menu is highlighted. Press <ENTER> and press the Up cursor arrow until the '<Tape Ch17-24 >' menu page is displayed. Using the PARAM encoder, set the Bank Source to ADAT.

```
<Tape Ch17->24 >  
Bank Source:ADAT
```

Press the Down cursor key to set the wordlength. The RD-8 is a 16-bit device, and so a wordlength of 16-bit should be selected here. The wordlength is set on the 328XD with the PARAM encoder. Press <MENU> to return to the menu pages.

```
<Tape Ch17->24 >  
Wordlength: 16
```

MIDI

To configure the 328XD to send the MMC controls to the RD-8s and vice versa, RD-8 must be selected in the Tape Machine Setup menu. Enter the Menu pages by pressing the <MENU> button, and scroll up or down with the PARAM encoder until the 'Tape Mach Setup' menu is highlighted. Press <ENTER>, scroll until Fostex RD-8 is highlighted and press <ENTER> again.

```
<Tape Mach Type>  
Fostex RD8
```

Once Fostex RD-8 has been selected, the timecode source must be selected. Press the Down cursor key and set the timecode source to either MTC (MIDI Timecode) or LTC (Linear Timecode / SMPTE).

```
Fostex RD-8  
Timecode Src:MTC
```

or

```
Fostex RD-8  
Timecode Src:LTC
```

NOTE: If no SMPTE cable has been connected, MTC must be selected; if a SMPTE cable has been connected, LTC must be selected.

The frame rate must also be selected. The options are 24 frame, 25 frame, 30 drop frame and 30 non-drop frame. Whichever is selected here must also be selected later when setting up the Master RD-8 to generate the timecode.

```
Fostex RD-8  
Frame Rate : 25
```

Once the 328XD has been set up, it is very advisable to store a User Setup of the above settings. Enter the Menu pages by pressing the <MENU> button and scroll through the menus until 'User Setups' is highlighted. Press <ENTER> and scroll to find a vacant location. Press <STORE> in the 328XD Snapshot panel. The User Setup will now be stored. To edit the parameters of the User Setup, while it is highlighted in the display, press <ENTER>. To recall the User Setup, highlight it in the LCD and press the <RECALL> button in the Snapshot panel.

Before proceeding to the RD-8 setup, recall the User Setup and switch off the 328XD.

RD-8 CONFIGURATION

Firstly, turn on the Slave RD-8. Allow a few seconds for the RD-8 to boot correctly. Next turn on the Master RD-8. Allow a few more seconds for the Master RD-8 to boot and recognize the Slave RD-8.

Master RD-8 Configuration

To set the Sample Rate:

Press <HOME>, <F1> on the Master RD-8. The display will show the current sample rate. To select a sample rate of 44.1kHz press <F1> or to set a sample rate of 48.0kHz press <F3>.

```
SampleRate 48K
44.1K      48K
```

NOTE: Before selecting the sample rate, it is necessary to decide whether work is to be carried out at 44.1kHz or 48.0kHz.

To set MIDI as remote control source:

Press <DATA EDIT> if not already lit and then press <REMOTE LOCAL>. The red REMOTE LED only should be lit and the display will show the Remote In menu page. <F3> should then be pressed to set the Master RD-8 MIDI input as the remote source.

```
Remote In: MIDI
ADAT RS422 MIDI
```

To set the Clock Source to Internal:

Press <DATA EDIT> if not lit and then press <CHASE ON/OFF>. The red CHASE LED should be lit. If the display does not now show the ClockSrc page, press <HOME>. The display should now show the ClockSrc menu page. Using the Up and Down cursor keys, the clock should be set to Internal.

```
ClockSrc Internal
```

To activate the Digital Inputs, press <DIGITAL IN>, and to set the Input Monitor to Auto press INPUT MONITOR <AUTO>.

Slave RD-8 Configuration

To set the Sample Rate:

Press <HOME>, <F1> on the Slave RD-8. The display will show the current sample rate. To select a sample rate of 44.1kHz press <F1> or to set a sample rate of 48.0kHz press <F3>.

```
SampleRate 48K
44.1K      48K
```

The sample rate of the Slave RD-8 must be set to the same value as selected on the Master RD-8.

To set the Master RD-8 as the remote control source:

Press <DATA EDIT> if not already lit and then press <REMOTE LOCAL>. The red REMOTE LED only should be lit and the display will show the Remote In menu page. <F1> should then be pressed to set the Master RD-8 MIDI input as the remote source.

```
Remote In: MIDI
ADAT RS422 MIDI
```

The Slave RD-8 must be set to Chase the Timecode of the Master RD-8. TO do this, press <CHASE ON/OFF> so that the red LED is lit.

To activate the Digital Inputs, press <DIGITAL IN>, and to set the Input Monitor to Auto press INPUT MONITOR <AUTO>.

NOTE: The Slave RD-8 will automatically slave to the wordclock of the Master RD-8, the clock being transmitted via the Sync Cable connecting the two machines.

Timecode Setup

On the Master RD-8, with the <DATA EDIT> LED lit, press <GEN SET> to enter the Timecode Generator menu pages. Set the Generator Source to Internal by pressing <F1>:

```
Gen Source: Int
INT          EXT
```

NOTE: Remember that SMPTE can only be selected if the SMPTE cable is connected between the master RD-8 and the 328XD.

To set the Frame Rate, and the method of generation (whether free running or record arm dependent) pages 5-20 to 5-36 of the RD-8 manual should be consulted.

To complete the setup, switch on the 328XD.

ADDITIONAL INFORMATION

For more information on the RD-8 setup, the RD-8 manual should be consulted. For quick reference the following pages may be of use:

Sample Rate setup	4-26
Remote Control setup	5-4
Clock Source setup	4-19
Digital In setup	4-18
Input Monitor setup	4-18

SOUNDCRAFT

HARMAN INTERNATIONAL INDUSTRIES LTD
CRANBORNE HOUSE
CRANBORNE ROAD
POTTERS BAR
HERTS EN6 3JN UK
TEL: +44 (0) 1707 665000
FAX: +44 (0) 1707 660742
EMAIL: info@soundcraft.com

SOUNDCRAFT USA

1449 DONELSON PIKE
NASHVILLE TN 37217 USA
TEL: 1-615-360-0471
FAX: 1-615-360-0273
EMAIL: soundcraft-usa@harman.com

www.soundcraft.com