



# Pulsar and tripleDAT

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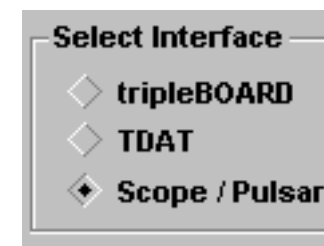
This chapter explains how to use Pulsar with our HDR program tripleDAT, including a description of the settings necessary in both programs.

## Getting started

Make sure that the sample rate you have selected in Pulsar (in Sample Rate Settings) is the same as in your tripleDAT arrangement.

As with other audio programs, which use Pulsar's ASIO or MME drivers, the use of tripleDAT with Pulsar requires the loading of special modules into the Pulsar project. These modules represent the logical inputs and outputs of the tripleDAT program. They are called **tripleDAT Source** and **tripleDAT Dest** and can be found in the *..\Pulsar\Devices\Windows Devices* folder.

Add these two modules to your Pulsar project, and then start tripleDAT. In tripleDAT, open the Audio Settings dialog. Under Select Interface, select the option **Scope/Pulsar**.

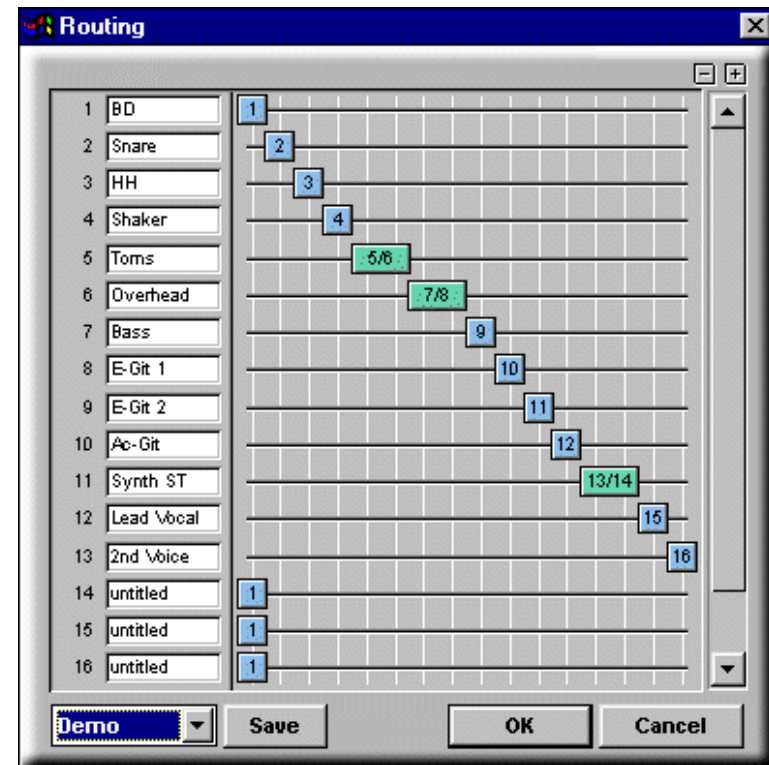


## Assigning output channels for playback

tripleDAT provides sixteen virtual outputs. There are various possibilities for assigning Arranger tracks to these outputs, including, of course, the assignment of multiple tracks to a single output. There are also a few methods for making the assignments:

a) In the Routing Setup dialog:

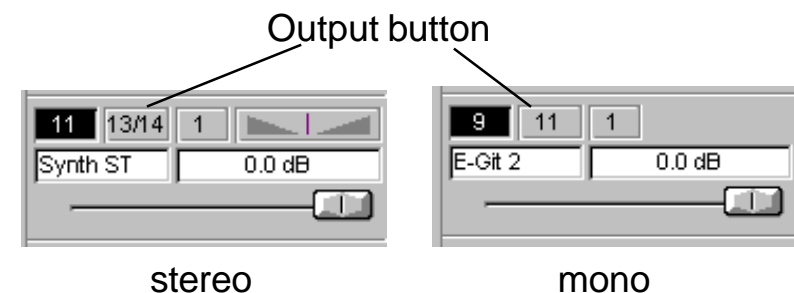
In this dialog (found under the Options menu), set the slider for each Arranger track to the desired output. You can switch a track between mono and stereo by double-clicking on its slider.



Routing Setup

b) In the Arranger track menu:

Right-click on the Output button of any Arranger track to open its context menu, where you can select the desired output for the track. If the track is set up as a mono track, you can select outputs *Scope 1 – Scope 16*. If the track is a stereo track, you can select from among output pairs *Scope 1/2 – Scope 15/16*.



c) In the Track Mixer:

The output assignment for any track can be incremented by simply clicking on the output assignment button of the mixer channel strip for the desired track. The mono/stereo setting for a track is made in the Arranger track menu.

Arranger tracks are played back via the outputs specified by the above settings. In Pulsar, these output signals appear on the correspondingly-numbered outputs of the tripleDAT Source **module**.

Connect the outputs of this module in the usual way to a Pulsar mixer or to a Pulsar physical output module (e.g., Pulsar ADAT Dest, to route track signals directly to an A16 interface).



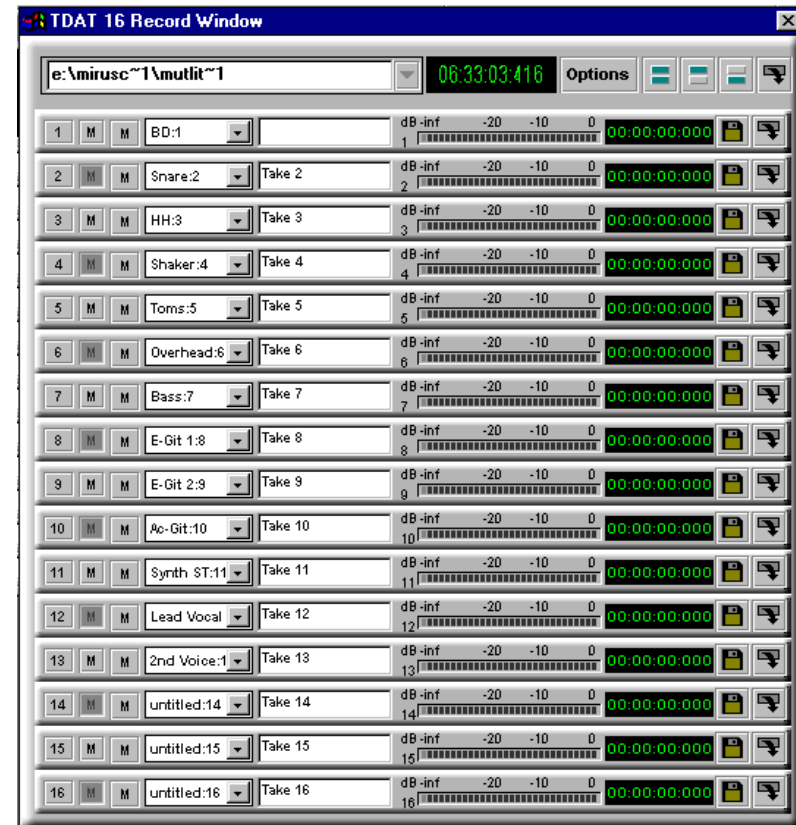
Output button

## Recording

tripleDAT inputs are represented in Pulsar by the tripleDAT Dest module. Make connections in Pulsar as appropriate so that signals are delivered to these inputs as desired (e.g., from Pulsar ADAT Source to tripleDAT Dest).

To record via the Pulsar hardware, open the tripleDAT Record dialog by clicking on the Record button. Here you can, among other things, activate any of the sixteen input channels for recording and assign them to an Arranger track.

For a detailed description of this dialog and its options, please refer to the tripleDAT Manual or the built-in Help system.



## tripleDAT Remote

This dialog can be opened by double-clicking on the tripleDAT Source module, or via the module's context (right-click) menu. It permits remote control of the tripleDAT transport functions Play, Stop and Pause from within Pulsar.

## Synchronization

### tripleDAT as MTC Master

All settings for synchronization of tripleDAT to another audio source (such as an ADAT or another sequencer) are made in Pulsar. The tripleDAT Synchronization dialog which you may have used with tripleBOARD is not accessible.

Sequencer programs can be synchronized to tripleDAT using MIDI Time Code (MTC). To do this, connect the MIDI output of the tripleDAT Source module to the Sequencer Midi dest module to route the tripleDAT MTC output to the sequencer.

Select the desired frame rate from the available options (24, 25, 29.97 and 30 fps, the latter two optionally in drop-frame format).



Set your sequencer to synchronize itself as a slave to MTC coming in the selected format (i.e., frame rate) from Pulsar. Refer to the documentation for your sequencer program if necessary.

Now, when you start tripleDAT, the sequencer will automatically synchronize itself and follow along.

If necessary, you can also specify an offset (hours:minutes:seconds:frames) in the corresponding field of the Pulsar tripleDAT Remote dialog.

## tripleDAT as MTC Slave

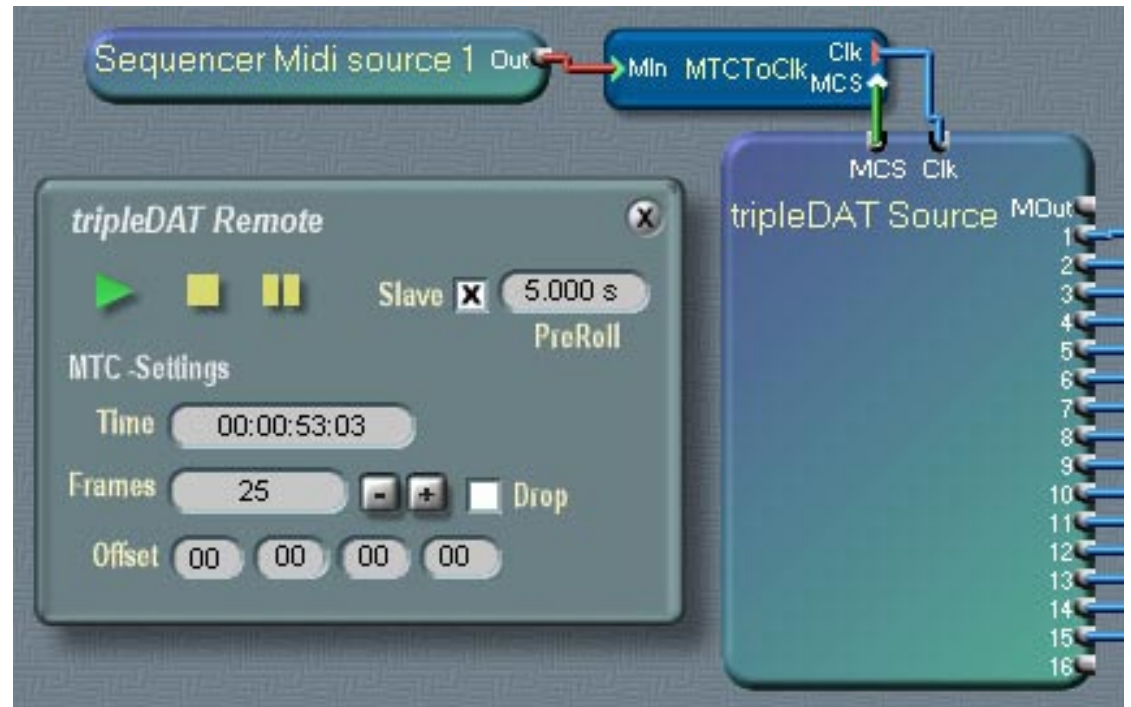
tripleDAT can be synchronized to an MTC source like a sequencer program using MIDI Time Code (MTC).

Add the MTCToClk module to your Pulsar project and connect its MCS (Motion Control Signal) and Clk (Clock) pads to the corresponding pads on the tripleDAT Source module.

Connect the MTC source (e.g Sequencer MIDI source or Pulsar Midi source) to the MIDI input of the MTCToClk module to route the MTC output to tripleDAT.

Select the desired frame rate from the available options (24, 25, 29.97 and 30 fps, the latter two optionally in drop-frame format). It has to match the MTC format which is send by the sequencer.

In the tripleDAT Remote dialog, activate the Slave checkbox. When the sequencer is started, tripleDAT will now synchronize itself to it and follow it, after the specified PreRoll time.





## Synchronization to an ADAT

Sample-accurate synchronization of tripleDAT to an ADAT is possible with the optional Pulsar Sync Plate, which is represented in Pulsar by the Syncplate Source module.

Add this module to your Pulsar project and connect its MCS (Motion Control Signal) and Clk (Clock) pads to the corresponding pads on the tripleDAT Source module.

In the tripleDAT Remote dialog, activate the Slave checkbox. When the ADAT is started, tripleDAT will now synchronize itself to the ADAT and follow it, after the specified PreRoll time.

To synchronize an additional sequencer program to the same ADAT, connect the MIDI output of the Syncplate Source module to the Sequencer Midi Dest module and configure the sequencer accordingly.

