

The Parameters File

We use a plain text parameter file to store the various camera, laser and calibration settings for each head, as well as the definition of fixtures, groups and global settings.

Format and contents are documented at: [Parameter Reference](#).

Managing the Parameters File

A typical application sends the parameter file to all heads upon startup. Each head will parse the file, apply the relevant data to itself and ignore the rest.

The data in the file is retained on the head, so ensure that all of your scanners operate based on the same file. We recommend that you simply keep a copy of the relevant parameters file together with your application and send it to all heads at startup. The developer kits for C# and C/C++ contain examples that show you how to read and send the file.



Notes

- The format must be a plain ASCII text file
- The file can be edited with any text editor
- If it contains a Unicode marker, the scanners will fail parsing the file

```
JSParameter Editor - JoeScan - C:\cygwin\home\ryan\jcam\js20plus\local_src\java_client\sharpchain.dat
File Edit View About
# This is a lineal sharp with two zones, each comprising three scanners surrounding the log.
# Zones are used for visualizing data from groups of scanners in JSdiag.
# Zones don't affect scanner functionality.
Zone FirstZone 0, 1, 2 # In JSdiag, you see data from the first ring
Zone FirstZone 3, 4, 5 # In JSdiag, you see data from the second ring
# Encoder pulses occur on 0.00448765893792 inch intervals as the chain moves
# 24 inches of travel caused 5348 encoder pulses in JSdiag: 24" / 5348 = 0.00448765893792"
EncoderPulseInterval 0.00448765893792
# The scanners will take scans every two inches
EncoderScanInterval 2.0
# We use three trigger phases, scanners 0 and 3, then scanners 1 and 4, then scanners 2 and 5
NumberOfPhases 3
# Top scanner
TriggerPhase 0 : 0, 3
# Bottom right scanner
TriggerPhase 1 : 1, 4
# Bottom left scanner
TriggerPhase 2 : 2, 5
# A ScannerConfig block is used to configure multiple scanners at once.
# In this case, scanners 0 through 3 are all configured using the same parameters.
ScannerConfig Scanners 0, 1, 2, 3, 4, 5, 6
{
  # 0.1 milliseconds is a general minimum
  MinLaserOn 0.1
}
```

JoeScan Diagnostic Application Line 1

Figure 8. Sample JSdiag Parameter File Screen

