

# Measurement Units

## Units

Value Range:	Millimeters or Inches
Default Value:	Inches
Location:	Global
Min. Firmware Required.	1917

This parameter determines the units that will be used by the scan heads. The Scan Windows and Calibration Fixtures will use the units set here. The data in profiles will either be returned in 1000th of an inch, or micrometer units, depending on this setting.

The following two example parameter files are equivalent, but expressed in different units:

```
Units Millimeters
ScannerConfig Scanner 0
{
    WindowTop 254
    WindowLeft -127
    WindowBottom 0
    WindowRight 127
    CalibrationFixtureNames      Circles
}

EncoderPulseInterval 0.003937 #how far the belt moves per encoder pulse
EncoderScanInterval 25.4      #the distance between scans

# A CalibFixture named "Circles" -- the name can be anything you want
CalibFixture Circles
{
    CircleFeature 25.4 50.8 76.2 #Radius is 1.0" (25.4 mm) centered at the coordinates (50.8 mm, 76.2 mm)
    CircleFeature 50.8 127.0 152.4 #Radius is 2.0" (50.8 mm) centered at the coordinates (127.0 mm, 152.4
mm)
}
```

```
Units Inches # if not specified, Inches is the default
ScannerConfig Scanner 0
{
    WindowTop 10
    WindowLeft -5
    WindowBottom 0
    WindowRight 5
    CalibrationFixtureNames      Circles
}

EncoderPulseInterval 0.01 #how far the belt moves per encoder pulse
EncoderScanInterval 1     #the distance between scans

# A CalibFixture named "Circles" -- the name can be anything you want
CalibFixture Circles
{
    CircleFeature 1.0 2.0 3.0 #Radius is 1.0" centered at the coordinates (2", 3")
    CircleFeature 2. 5.0 6.0 #Radius is 2.0" centered at the coordinates (5", 6")
}
```