

# MaxBotix HRLV-MaxSonar-EZ4 Ultrasonic Range Finder

We use the [MaxBotix HRLV-MaxSonar-EZ4 Ultrasonic Range Finder](#) purchased through [SparkFun](#).  
[MaxBotix](#) provides a [datasheet](#).

## Read Range

We use the UART on the SparkFun RedBoard Turbo to interface with the serial TTL TX of the MaxBotix HRLV-MaxSonar-EZ4 Ultrasonic Range Finder.

### Read Range

```
$: sudo cp -r sw/SparkFun_RedBoard_Turbo/MaxBotix_HRLV-MaxSonar-  
EZ4_Ultrasonic_Range_Finder/read_range /opt/SparkFun_RedBoard_Turbo/Arduino  
$: sudo chmod -R +666 /opt/SparkFun_RedBoard_Turbo
```

Arduino IDE

```
$: arduino
```

```
> File>Sketchbook>read_range
```

```
> Click Serial Monitor icon
```

```
> Select 115200 baud
```

```
> Click Upload icon (until flash is successful)
```

*MaxBotix HRLV-MaxSonar-EZ4 Ultrasonic Range Finder*  
*Range [mm]: 3705*