

# OPOS DLRMU



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# DLRMU Application

## Overview

This manual describes the basic features provided by the dlrmu application and the steps required to use each feature.

## Operation

dlrmu can be run from the command line with the command:

```
C:\>"C:\Program Files(x86)\DLSOPOS\DLRMU\dlrmu"
```

Running DLRMU with the `--help` option displays DLRMU's help screen. Various other options are covered in this manual. These other options may be invoked by either their short name or long name. All options provided by dlrmu are displayed below.

Short Names	Long Names
-v	--timeout
-E	--Enabled
-e	--EC
-f	--file
-l	--log
-c	--comport
-b	--baud
-t	--tbaud
-p	--parity
-d	--databits
-s	--stopbits
-a	--scanner
-r	
-F	--filter

Some options require an argument; those that do are highlighted in the table above. Options which require an argument should append the argument after the option, separating the option and the argument with a space. Arguments which contain spaces should use double quotes (") around the argument.

The example below shows dlrmu being run with two options, both of which require an argument. The `--file` option contains a space and has double quotes around it.

```
C:\>"C:\Program Files(x86)\DLSOPOS\DLRMU\dlrmu" --  
scanner USBScanner  
--file "firmware files\DRXXXXXXX.DAT"
```

## Configurable Logging

By default `d1rmu` writes to a file named `d1rmu.log` located in OPOS' default log directory. The `--log` option allows the user to select a custom filename by providing it as an argument.

```
C:\>"C:\Program Files(x86)\DLSOPOS\DLRMU\d1rmu" --  
log "mylog.txt"  
--scanner USBScanner
```

## Retrieving Scanner Information

To retrieve information about a scanner, use the `--scanner` option with a scanner name as an argument.

```
C:\>"C:\Program Files(x86)\DLSOPOS\DLRMU\d1rmu" --scanner USBScanner
```

The arguments that are appropriate for the `--scanner` option are listed below:

```
Bologna-USB-HID  
HandScanner  
MagellanSC  
QS6000  
QSLScanner  
RS232Imager  
RS232Scanner  
SCRS232Scanner  
TableScanner  
USBHScanner  
USBScanner
```

Depending on the scanner other options may also be required. For scanners communicating over RS232 it may be necessary specify the `--baud`, `--tbaud`, `--parity`, `--databits`, and `--stopbits` if their default values differ from how the scanner is configured. Each of these options require the `--comport` option to be specified before they become applicable.

```
C:\>"C:\Program Files(x86)\DLSOPOS\DLRMU\d1rmu" -c  
1 -b 115200 -d 8 -p None --scanner RS232Scanner
```

The example above shows `d1rmu` being used to retrieve information from an `RS232Scanner`. This scanner's attributes do not align with the default `d1rmu` option values and require the options to be invoked.

## Updating Scanner Firmware

To update a scanner use the `--scanner` option with a scanner name as an argument and the `--file` option with the desired firmware update file name as an argument.

```
C:\>"C:\Program Files(x86)\DLSOPOS\DLRMU\dlrmu" -a USBScanner -f
DRXXXXXXXX.DAT
```

The same options required to retrieve information from a scanner over RS232 are also required to update scanner firmware over RS232.

```
C:\>"C:\Program Files(x86)\DLSOPOS\DLRMU\dlrmu" -c 1 -b 115200 -d 8 -p
None -a RS232Scanner -f DRXXXXXXXX.S37
```

## Validating Scanner Before Firmware Update

Updating firmware with the `--filter` option will validate the argument against the scanner's top model number.

```
C:\>"C:\Program Files(x86)\DLSOPOS\DLRMU\dlrmu" -r --filte
XXXXXXXXXX-XXXXXXXX a USBScanner -
```

In addition, updating firmware with the `-r` and `--filter` option will validate the argument against the scanner's model number with the *short model number* in the `-filter` argument. Note that `-r` only enables the usage of short model numbers and that the argument still follows the `--filter` option.

```
C:\>"C:\Program Files(x86)\DLSOPOS\DLRMU\dlrmu" -r --filter "9800i SS" -a
USBScanner -f DRXXXXXXXX.DAT
```

The arguments that are appropriate when short model numbers are enabled are listed below:

```
"9500 SS"
"9500 SO"
"8500 SS"
"8500 SO"
"2300 HS"
"2200 VS"
"8400 SS"
"8300 SS"
"8400 SO"
"8300 SO"
"8200 SS"
"8200 SO"
"8500XT SO"
"8500XTS SO"
"8500XT SS"
"8500XTS SS"
"9800i SO"
"9800i SS"
"9300i SO"
"9300i SS"
"9400i SO"
"9400i SS"
```

Short model names denote scanner model families. SS denotes scanner-scale models and SO denotes scanner-only models. These arguments should have quotes around them as they contain a space.

Updating firmware with the `--EC` option will validate the argument against the scanner's EC level. The argument is a four digit decimal string and should match the EC level in the new firmware file.

```
C:\>"C:\Program Files(x86)\DLSOPOS\DLRMU\d1rmu" --EC 0614 --scanner  
USBScanner --file DRXXXXXXXX.DAT
```

## Miscellaneous Options

Running `d1rmu` with the `--Enabled` option will leave the scanner enabled for operation after the program exits. This option can be used on a firmware update or when retrieving scanner information. Omitting this option will disable the scanner if it was previously enabled.

```
C:\>"C:\Program Files(x86)\DLSOPOS\DLRMU\d1rmu" --Enabled --scanner  
USBScanner --file DRXXXXXXXX.DAT
```

Running `d1rmu` with the `--timeout` option will modify the length of delay in operation after the firmware update completes. The argument is a decimal string representing the time in seconds to delay operation and cannot be less than 10.

```
C:\>"C:\Program Files(x86)\DLSOPOS\DLRMU\d1rmu" -timeout 30 --scanner  
USBScanner --file DRXXXXXXXX.DAT
```



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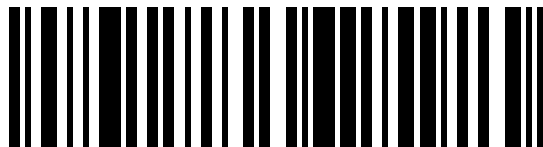


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