# Log Group

*Log group contains settings related to the log window and writing the log to one or multiple files.*

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## 1. write_file_datecode_format

When writing multiple log files, this date code defines the format used to determine the date part of the log filename. This parameter also implicitly determines the file-swapping frequency since a new log file is created as soon as this date code changes.

- Type: `string`
- Default: `yyyyMMdd`

**Example**
To save log files every hour, define the following parameters as:

```
[Log]
write_log_file=true
write_filename_format={DATE}_hourly.log
write_file_datecode_format=yyyyMMdd-hh
```

## 2. write_file_dir

Determines the directory where the log files are saved. By default, the log files are saved to `C:\Users\<user>\AppData\Local\Kaitotek\Qosium Scopemon\logs` in Windows.

- Type: `string`

Use forward slashes / or double backslashes \\ as directory separators

**Example**
To save log files to directory `E:\ScopemonLogs\`, define this parameters as:

```
[Log]
write_file_dir=E:\\ScopemonLogs
```

## 3. write_filename_format

Determines the filename format of the log file or multiple log files.

- Type: `string`
- Default: `{DATE}_scopemon.log`

Use forward slashes / or double backslashes \\ as directory separators.

**Example**
To save log files to directory `E:\ScopemonLogs\`, define this parameters as:

```
[Log]
write_file_dir=E:\\ScopemonLogs
```

## 4. write_mode_append

Determines whether the log file is opened in *overwrite* or *append* mode when using single file mode. This option has no effect when writing multiple log files, as they are always opened in *append* mode.

- Values:
  - `true` - File is opened in append mode, and new log entries are added at the end of the file
  - `false` - The log file contents will be erased each time Scopemon is started
- Default: `false`

When using append mode, the file size grows indefinitely. It is advisable to set this to false in production environments or to make sure the file size won't become a problem by other means.

**Example**
To preserve log messages from previous runs, set this parameter as:

```
[Log]
write_mode_append=true
```

## 5. write_log_file

Determines whether Scopemon writes the log into file(s). By default, Scopemon does not produce log files.

- Values:
  - `true` - Log file(s) are written
  - `false` - Log files won't be written
- Default: `false`

**Example**
To enable log writing, define this parameter as:

```
[Log]
write_log_file=true
```