

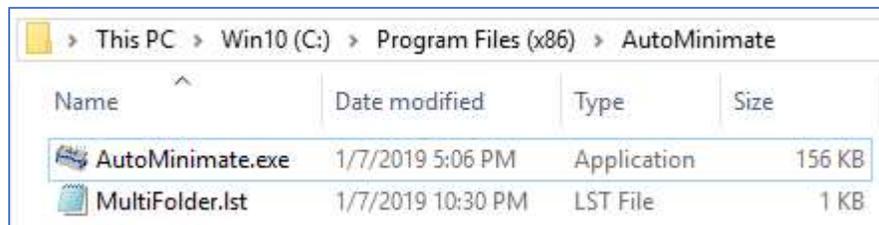
AutoMinimate V2.1.1 Operation Instructions

Updated January-2019

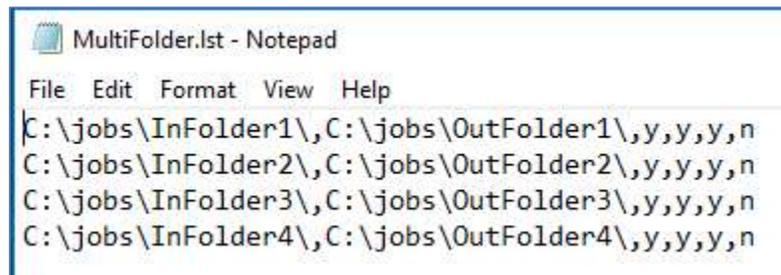
- 1) Unzip autominimate.zip and run Setup.exe to install AutoMinimate.exe on to your PC.
- 2) A shortcut for AutoMinimate.exe will be placed in the Windows Start of Win 10.



- 3) 2 files will be installed in the folder shown below:



- 4) The MultiFolder.lst contains the below sample entries:

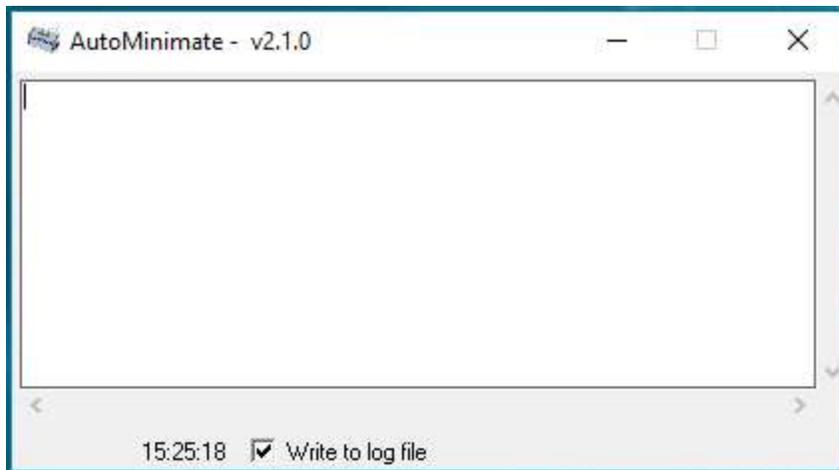


- 5) MultiFolder.lst contains the following fields for each project in CSV format:

Field	Value	Description
InFolder	Text	Full path of the folder containing TXT files, which is the ASCII files created by Auto-Call-Home automatically or using Blastware manually
OutFolder	Text	Full path of the folder the resulting csv files will be stored

OutBatVolt	y or n	When set to "y", the battery voltage of the unit will be included in a separate CSV file
OutHead	y or n	When set to "y", the CSV file will contain column headings in the first row of the file
StripGtLt	y or n	When set to "y", non-numeric characters such as >, < and N/A in the frequency readings will be removed
TimeStampFile	y or n	When set to "y", the resulting CSV filename will contain timestamp, e.g. UM12345_geo_20180417212230.csv, otherwise UM12345_geo.csv

6) Start AutoMinimate.exe by clicking on the shortcut.



- 7) The Execution interval is fixed to 1-minute. Every minute the Autominimate will look for TXT files in each InFolder in MultiFolder.lst, convert them into CSV files and store them in OutFolder.
- 8) Autominimate will only process TXT files that are more than 5 minutes old. This is to ensure that ACH has finished working with the TXT files before they are processed by Autominimate.
- 9) At the beginning of each execution interval, the program will check in the incoming folder for *.txt files, convert them into a semi-colon delimited csv files (the Argus format) in the outgoing folder.

10) The Output filename has the format of

[SN]_[type]_yyyymmddhhmmss.csv

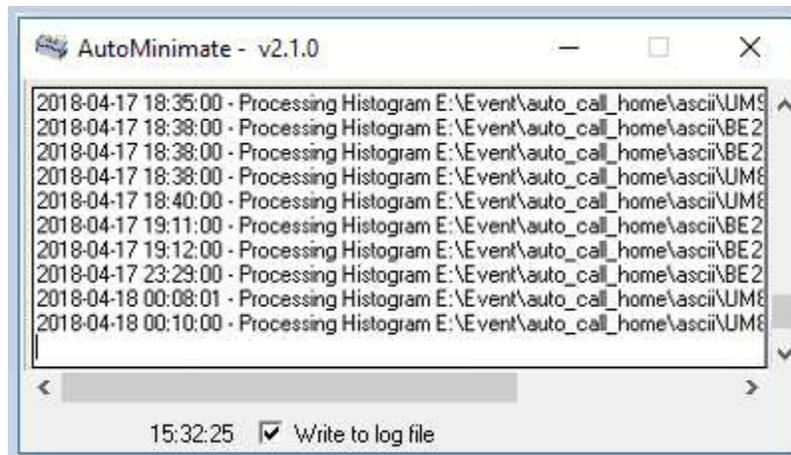
where:

- a. [SN] = serial number of the seismograph, e.g. UM12345 and BE12345
- b. [type] = geo, mic, volt or slm

Type	Sensor	Example
geo	Geophone	UM12345_geo.csv
mic	Microphone	UM12345_mic.csv
volt	Battery voltage	UM12345_volt.csv
slm	Sound level meter	UM12345_slm.csv

- c. _yyyymmddhhmmss = optional timestamp at time of file creation when it is specified in the MultiFolder.lst, e.g. UM12345_geo_20190107120000.csv.

11) When TXT files are being process, the time and the names of the TXT files will be displayed as shown below:



- 12) After the txt files are processed, they will be renamed by adding ".p" at the end of each txt file so they will not be re-processed on the next round.
- 13) When the checkbox for "Write to log file" is checked. A log file will be created in each of the Infolder.
- 14) Autominimate V2 will process TXT files generated by Blastware and by THOR.

15) The format of the semi-colon delimited csv file is given below. If the "Strip <., > and N/A" is unchecked, any field containing <1.0, >100 or N/A will be output to the csv files as they are in the incoming txt files. If it is checked, all <, > and N/A will be removed in the outgoing csv files.

1. Date in ISO format
2. Time
3. Tran1
4. Vert1
5. Long1
6. Pvs1
7. Tran1Hz (frequency)
8. Vert1Hz
9. Long1Hz

If the Minimate has 2 geophones, 7 more columns will be added:

10. Tran2
11. Vert2
12. Long2
13. Pvs2
14. Tran2Hz (frequency)
15. Vert2Hz
16. Long2Hz

16) If the "OutBatVolt" is "y", a csv file (xxxxxx_volt.csv) containing the battery voltage record of the Seismograph will be generated in the following format. The time stamp is the time at the end of each histogram.

```
Date;Time;UM12932-Battery_V
2018-11-18;06:29:59;3.8
2018-11-18;09:29:59;3.8
2018-11-18;12:29:59;3.8
2018-11-18;15:29:59;3.8
2018-11-19;06:29:59;3.8
2018-11-19;09:29:59;3.8
2018-11-19;12:29:59;3.8
2018-11-19;15:29:59;3.8
2018-11-20;06:29:59;3.8
2018-11-20;09:29:59;3.8
```

- 17) The data conversion will work whether the microphone is enabled or disabled.
- 18) From V1.0.12, the user can select to add header to the output CSV file for importing to VDV or Eagle.io. NOTE: Argus will accept the CSV file with or without header. It just ignores the line with header.
- 19) From V1.0.13. the user can specify whether a line of header will be included in the output CSV file - for VDV or Eagle.io

- 20) From V1.0.16, add ability to output microphone data to a csv file with the filename xxxxxx_mic.csv (e.g. BE12049_mic.csv)
- 21) The format of the semi-colon delimited csv file for microphone data is given below.
1. Date in ISO format
 2. Time
 3. Mic1 PSPL (in Pa or psi)
 4. Mic1 PSPL (in dB)
 5. Mic1 Freq (in Hz)
- 22) If the Minimate has 2 microphones, 3 more columns will be added:
6. Mic2 PSPL (in Pa or psi)
 7. Mic2 PSPL (in dB)
 8. Mic2 Freq (in Hz)
- 23) From V1.1.5, Autominimate will process the waveform TXT files to extract the PPV only. It will not extract the time series data. The readings from waveform will be labeled as follows:

```
Date;Time;BE19067-PPV_T1;BE19067-PPV_V1;BE19067-PPV_L1;BE19067-PVS1;BE19067-Hz_T1;BE19067-Hz_V1;BE19067-Hz_L1
2013-02-13;13:40:50;32.4;OORANGE;88.3;OORANGE;3.1;3.3;1.9
2013-02-13;13:40:48;32.4;OORANGE;88.3;OORANGE;3.1;3.3;1.9;from_waveform
2013-02-13;13:59:06;1.65;6.35;1.40;6.59;>100;>100;>100
2013-02-13;13:59:20;4.06;24.6;2.54;24.6;57;85;26
2013-02-13;13:59:19;4.06;24.6;2.54;24.6;57;85;26;from_waveform
2013-02-13;14:18:16;0.762;3.30;0.762;3.33;>100;>100;>100
2013-02-13;14:33:16;0.381;2.16;0.381;2.19;>100;>100;>100
2013-02-13;14:33:38;44.6;3.81;76.6;88.0;2.8;>100;3.3
2013-02-13;14:33:36;44.6;3.43;76.6;88.0;2.8;73;3.3;from_waveform
2013-02-13;16:04:56;24.9;194;82.3;202;13;3.8;1.9
2013-02-13;16:04:54;24.9;194;82.3;202;13;3.8;1.9;from_waveform
2013-02-13;16:22:43;0.381;0.381;0.381;0.475;>100;>100;>100
```

- 24) From V2.0.9, Autominimate will process data from Micromates with SLM. The output file will have the filename of [SN]_slm.csv and below contents:

```
Date;Time;UM14028-SLM_LMax;UM14028-SLM_LMin;UM14028-SLM_L10;UM14028-SLM_L90;UM14028-SLM_Leq
2019-01-07;16:07:47;55.3;32.3;42;35;40.1
2019-01-07;16:12:47;55.2;31.0;38;33;36.6
2019-01-07;16:17:47;68.3;30.6;43;33;45.5
2019-01-07;16:22:47;71.3;31.6;41;34;45.5
2019-01-07;16:27:47;60.8;31.2;41;33;39.4
2019-01-07;16:32:47;60.9;31.0;40;34;40.7
2019-01-07;16:37:47;59.2;31.0;39;35;38.3
2019-01-07;16:42:47;63.2;32.6;46;35;43.0
2019-01-07;16:47:47;60.5;30.9;46;34;42.1
2019-01-07;16:52:47;56.2;31.7;42;34;39.6
2019-01-07;16:57:47;62.9;31.4;41;34;41.0
2019-01-07;17:02:47;57.6;33.3;43;36;40.5
```