## For spectrum analyzer Logging software Introduction of MAS410•510





MICRONIX CORPORATION

Ver1.07

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## Logging software MAS410-510

#### 1. Introduction

PC software for controlling spectrum analyzers (MSA400 series) and signal spectrum analyzers (MSA500 series) and logging measurement data. It is ideal for monitoring abnormal signals, interference, and interfering radio waves during the day and night, and for recording unmanned data for a long time.





#### **3**. Operating environment

: CPU 2GHz or more, memory 2GB or more, HDD free space 1GB or more

Interface

: USB 2 ports or more

#### 4. Software overview

Recommended PC

**Compatible OS** 

It consists of two screens, recording mode and playback mode.

Only PCs with a USB dongle key can be transferred to the recording mode (1 license per spectrum analyzer).







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#### Playback mode (when 4 screens are displayed)





#### 6-1. Software specifications (playback mode)





#### **6–2**. Software specifications (playback mode)





#### 7. Estimated recording capacity

The approximate recording capacity for the recording time (period) is as follows.

X Measurement interval: 1 second

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1 minute	1 hour	1 day	1 week
60 frame	3,600 frame	86,400 frame	604,800 frame
About 70KB	About 4.2MB	About 100MB	About 700MB

#### 8. Supplementary information • Precautions for handling

• If your PC has multiple SIO ports, you can control multiple analyzers by launching this software for multiple tasks and allocating the ports.

•When operating this software continuously, the operation will stop if the logout function of the screen saver is ON. If you want to operate for a long time, turn off the logout function.

• If the virus check software is running or resident, a communication error may occur. In such a case, stop the virus check function.



## Log file converter MAS410CONV • 510CONV

#### 1. Introduction

Log file converter is PC software that converts log data collected by MAS410 or MAS510 logging software into CSV files. Specifies the range of frames recorded in the log file that are output to the CSV file. Slide the trackbar of each start frame and end frame left or right or specify the frame number in the edit box. If not changed, all frames will be output.

	MAS510 Log File Converter		
	Source Log File (L): D:¥LOG¥MSA558.mlk	Browse	
	Start Frame (S): 5   End Frame (E): 18	2018/03/07 14:42:12 2018/03/07 14:42:25	
Trackbar	CSV File (C): D:¥LOG¥MSA558.csv	Browse	Edit box
	MICRONIX Ver.1.00	Convert	
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## Log file converter MAS410CONV•510CONV

#### 2. Extracted CSV data

CSV data consists of a measurement condition part and a waveform data part.

Measurement condition part		Α	В	c	D	E	F	G
CF: Center frequencySPAN: Frequency spanREF: Reference levelSWP: Sweep timeDET: Detection modeRBW: Resolution bandwidthVBW: Video bandwidthSCALE: Display scaleLmtLv: Limit level	2 3 4 5 6 7 8 9	CF SPAN REF SWP DET RBW VBW SCALE LmtLv	1.0000GHz 20MHz 10.0dBm 30ms SMP 100KHz 30KHz 10dB/D 0.0dBm					
TRACE : Spectrum data score	10 11 12	DATE 2018/3/7	TIME 14:42:08	9.90E+08 -20.4	9.90E+08 -22.4	9.90E+08 -27.6	9.90E+08 -35.6	9.90E+08 -46.4
Waveform data part	-13 14	2018/3/7 2018/3/7	14:42:09 14:42:10	-61.2 -87.2	-60 -76.4	-60 -72	-62 -71.2	69.6 71.2
The first line is the heading (frequency), and the second and subsequent lines are the measurement date and time and waveform data.	15 16 17 18 19 20	2018/3/7 2018/3/7 2018/3/7 2018/3/7 2018/3/7 2018/3/7	14:42:11 14:42:12 14:42:13 14:42:14 14:42:14 14:42:15 14:42:16	-77.2 -65.2 -73.2 -66 -63.6 -64.4	-79.6 -64.8 -68.8 -64.4 -62.8 -64	-78.4 -64.4 -66.4 -64 -63.2 -64.8	-74.8 -64.4 -65.6 -65.2 -64.8 -66.4	-71.2 -65.2 -65.6 -67.2 -70 -70.4

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### Logging software.

For inquiries regarding quotations, orders, repairs, etc., please contact the following.

The information provided is subject to change without prior notice.

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