## **RecManager for Defence**

User Manual

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# Contents

1. Overlook	3
Glossary What is Rec Manager Program Main Program Features:	3 3 3
2. Installing RecManager program for Defence	4
3. Operating the Program	4
<ul><li>3.1 Interface</li><li>3.2 Program StartUp</li><li>3.3 Main Menu</li></ul>	4 7 8
4. Recorder's settings	10
<ul><li>4.1 General settings:</li><li>4.2 Files settings</li><li>4.3 Additional settings:</li></ul>	11 12 13
5. Technical Support	14

### 1. Overlook

#### Glossary

- **Recording** an audio recording that is made by an audio recorder (or downloaded from a computer) and saved in the recorder's memory.
- **Demo-mode** a program operating mode when the recorder is not connected, but emulated by the program. It is intended to demonstrate the basics of the Program and the settings of a particular model of the Recorder. In this mode, the program works as the recorder is connected.
- Default Folder a previously set folder (chosen by a user) that some commands use to upload recordings and files from the recorder.
- **Digital Watermark** additional data that are added at the recording (enable to identify time and date of the record, Recorder's serial number and type as well as the attempts to modify the record)
- Firmware (built-in program) a program that provides the recorder operation (stored in the energy-independent memory of the Recorder and provides the Recorder's functionality, namely: recording, responding to control buttons, indication etc.)

#### What is Rec Manager Program

The Rec Manager for Defence (hereinafter referred to as the Program) is an application that works with Edic-mini Defence recorders.

The program is available for Windows XP(SP2, SP3)/Windows Vista/ Windows 7. For normal program functionality, computer hardware should be the same as the one recommended for the normal operation of the user's operational system.

#### Main Program Features:

- · Reviewing the recorder's memory;
- Uploading recordings from the recorder to a PC;
- Erasing recordings from the recorder's memory;
- Showing the status of the recordings (uploaded/not uploaded);
- Reading off information about markers of the uploaded records (markers are created only for records made by this particular Recorder. They store information about the Recorder on which a record has been performed; and helps to identify time and date of the record; as well as the attempts to modify it)
- Synchronizing of the recorder clock with the clock of the computer;
- Showing the rechargeable battery's status;
- Setting of the recorder's parameters;
- Formatting the recorder's memory;

- Preview Mode (Virtual Recorder) is used to demonstrate the basics of the Recorder without connecting it;
- Multi-language support (English is set by default).

### 2. Installing RecManager program for Defence

There is no necessity to install RecManager for Voice Recorder Defence onto your PC. Everything needed for smooth operation is located in the Recorder's memory.

The program can't be uninstalled either as all the files necessary for smooth operation of the program are protected against deleting or rewriting. That's why a new version of the program can be installed only after the Recorder's disk image has been upgraded.

### 3. Operating the Program

#### 3.1 Interface

The Program's interface corresponds to a standard interface of operating programs of Windows family.

The basic element of the interface is Recorder content panel (Figure 1). It displays a list of records saved in the Recorder's memory. There is also an Explorer panel (Figure 2) displaying the content of the PC as well as the program with the same name.

Rec Manager for Defence	_□×
Recorder content USB 1.1	Explorer X
2 🔊 🖻 🕫 📌 🗡 🚿 🖉 - 🕱	🟥 🍿 🞦 🙋 🗡 💫 🚍
Location De Records	Location 🔄 Voice Digital Recorder Files
Re Size Date Duration Mode Status	Размер Тип Изненен
1         512 KB         01.01.1970 00:00165         00:00107         Mone; 20000 Hz; No comp         Dow           2         512 KB         01.01.1970 00:0017         00:00106         Mone; 20000 Hz; No comp         Dow           3         512 KB         01.01.1970 00:0012         00:00107         Mone; 20000 Hz; No comp         Dow           4         512 KB         01.01.1970 00:0012         00:00106         Mone; 20000 Hz; No comp         Dow           5         512         01.01.1970 00:0018         00:00106         Mone; 20000 Hz; No comp         Dow           5         512         01.01.1970 00:08:17         00:01:05         Mone; 20000 Hz; No comp         Dow	<ul> <li>A file_1_(1970_01_01-00_00_0</li> <li>285 KB Winamp media file</li> <li>04.02.2011 1</li> <li>A file_2_(1970_01_01-00_00_2</li> <li>281 KB Winamp media file</li> <li>04.02.2011 1</li> <li>A file_4_(1970_01_01-00_00_4</li> <li>265 K5 Winamp media file</li> <li>04.02.2011 1</li> <li>A file_5_(1970_01_01-00_00_4</li> <li>4 653 KB Winamp media file</li> <li>04.02.2011 1</li> </ul>
Model: Defence 35840   FW: 3.6   5/N: CSWMLX117179   Power state: 1.53   Recorder time: 01.01.15	70 00:13:00
Total memory: 4096.00 MB Min. record time: 29:18:14 Memory free: 4056.00 MB	

Figure 1.

If the Recorder is not connected the majority of functions of Recorder content panel won't be available.

🗱 Rec Manager for Defence		-OX
File Recorder Explorer Language About		
Recorder content COS 1	Explorer	×
◎ ▶ ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ●	🏥 🔊 🚏 😰 🃂 🗙 💫 📼	
	Location 🛅 Noice Digital Recorder Files	•
	1 Имя Разнер Тип Изменен	
	file_1_(1970_01_01-00_00_0 285 K5 Winamp media file 04.02.2011	1
	file_2_(1970_01_01-00_00_1 265 K5 Winamp media file 04.02.2011	1
	file_3_(1970_01_01-00_00_2 281 K5 Winamp media file 04.02.2011	1
	file_4_(1970_01_01-00_00_4 265 K5 Winamp media file 04.02.2011	1
	file_5_(1970_01_01-00_08_1 4 653 K5 Winamp media file 04.02.2011	1
Can't find Recorder. Connect Recorder to PC.		
		•

Figure 2.

At the bottom of the Program's window there is a status bar displaying information about the Recorder (Figure 3): Recorder's Model (1); Firmware version of the Recorder (2); Recorder's serial number (3); Recorder's charge indicator and voltage (4); Recorder's Date and Time (5); Recorder's total writable memory (6), Recorder's free writable memory in hours (7), Free memory capacity in Mb (8). The status bar is displayed only after the Recorder has been recognized.



When operating the Recorder there is a window in the middle of the Main window displaying the type of operation and operation completion status. No operations are possible during this.

Attention! When displaying the window onto the screen don't turn the Recorder off the PC.

Rec Manager for Defence	
Decorder content     Decorder content     Decorder content	×
	<u> </u>
	_
Lucator and Records	<u> </u>
P. Re         Size         Date         Duration         Mode         Status           1         512.48         01.01.1970 00:00:00         00:00:07         Mone; 20000 Hz; No comp         Down.         Alfle_1_1(1970_0.01_0.00_0.0         265 KS         Whang media file         04.02.2011           3         512.48         0.0.1.1970 00:00:017         00:00:017         Mone; 20000 Hz; No comp         Down.         Alfle_1_1(1970_0.01_0.00_0.0         255 KS         Whang media file         04.02.2011           3         512.48         0.0.1.1970 00:00:07         Mone; 20000 Hz; No comp         Down.         Alfle_1_3(1970_0.01_0.00_0.0         255 KS         Whang media file         04.02.2011           4         612.4970_0.01:01:00_0.00_4         255 KS         Whang media file         04.02.2011           5         512         01.01.1970 00:00:04         00:01:59         Mone; 20000 Hz; No comp         Down         Alfle_5_1(1970_0.01:0.00_4         255 KS         Whang media file         04.02.2011           6         512         01.01.1970 00:00:04         00:01:59         Mone; 20000 Hz; No comp         Down         Alfle_5_1(1970_0.01:04:00_4         4653 KS         Winamg media file         04.02.2011           Oline file file file file file file file fil	1 1 1 1
Model: Defence 35840         FW: 3.6         S/N: CSWMLX117179         Power state: 1.43         Recorder time: 01.01.1970 00:14:59           Total memory: 4096.00 MB         Min. record time: 29:18:14         Memory free: 4056.00 MB         Memory free: 4056.00 MB	

Figure 4.

A more free access to commands and operations offered by the Program are in the Main Menu. A number of Menu commands are backed up by the buttons on the tool bar. The majority of commands has hot buttons. The full description of the Main Menu is in the section Main Menu of this document.

The majority of the Recorder's commands are in Recorder Menu. Many of these commands are backed up by the buttons at the top of Recorder content panel.

Rec Manager for Defence					_	- 🗆 🗡
File Recorder Explorer Language About.						
Refresh content	ler content	USB 1.1		Explorer		X
Pecords F3	Ai 🦻 - 🕱		🏥 😥 🔁 📓 🔁	) 🗙 🛛 📂 📰		
Loca Copy to PC ES		•	Location 🛅 Voice Digital Recorder F	iles		•
	Duration Mode Stat	tus	1 Имя	Размер Тип	Изменен	
1 Move to PC Shirt+FS	00:00:07 Mono; 20000 Hz; No comp Dow	۷	A file_1_(1970_01_01-00_00_0	285 KE Winamp media file	04.02.2011	1
3 Copy to default folder F6	00:00:08 Mono; 20000 Hz; No comp Dow	v	file_2_(1970_01_01-00_00_1	265 KB Winamp media file	04.02.2011	1
4 5 Move to default folder Shift+F6	00:00:06 Mono; 20000 Hz; No comp Dow 00:01:59 Mono; 20000 Hz; No comp Dow	v	A file_3_(1970_01_01-00_00_2 file_4_(1970_01_01-00_00_4	281 KB Winamp media file 265 KB Winamp media file	04.02.2011 04.02.2011	1
Erase selected items F8	-		file_5_(1970_01_01-00_08_1	4 653 KB Winamp media file	04.02.2011	1
Format recorder memory						
Synchronize clock						
F9						
S Connect						
👮 Disconnect						
Connect type						
			•			Þ
Model: Defence 35840 FW: 3.6 S/N: CSWML	X117179 Power state: 1.43 Re	ecorder time: 01.01.197	0 00:15:29			
Total memory: 4096.00 MB Min. record time: 2	29:18:14 Memory free: 4056.00 MB					

Figure 5.

In the same way the commands that refer to Explorer panel are located in the Menu with the same name. There is also Explorer Window enabling either to display or hide this panel. Some of the commands demand this panel to be visible, which refers to practically all Explorer commands, as well as to Copy to PC and Move to PC.

RMRec Manager for Defence							- II X
File Recorder Explorer Language About							
Show wave-file info Ct	ntent	USB 1.1		Explorer			×
😰 🐌 🥙 Go to default folder 🛛 Ctr	HG 👮 - 🕱		🎥 🌔 👺	🖻 🏓 🗙  😥			
Location 🌆 🖉 Set current folder as default		- L	ocation 🛅 Voice Digital	Recorder Files			-
1 Re	Mode	Status	1 Иня	Размер	Тип	Изменен	
1 5 New folder	Mono; 20000 Hz; No comp	Dow	A file_1_(1970_01_01-00	_00_0 285 KB	Winamp media file	04.02.2011	1
3 5 X Delete	Mono; 20000 Hz; No comp.	Dow	file_2_(1970_01_01-00	_00_1 265 KB	Winamp media file	04.02.2011	1
4 5 51 2 Refrech Chr	Mono; 20000 Hz; No comp	Dow	file_3_(1970_01_01-00 file_4 (1970_01_01-00	00_2 281 KB	Winamp media file	04.02.2011	1
	interior, 20000 ra, no comp		file_5_(1970_01_01-00	_08_1 4 653 KB	Winamp media file	04.02.2011	1
Folders Ctr	1+T						
Explorer Window Ctr	1+E						
Model: Defence 35840 FW: 3.6 S/N: CSWMLX11	7179 Power state: 1.43	Recorder time: 01.01.1970	00:15:56				
Total memory: 4096.00 MB Min. record time: 29:1	8:14 Memory free: 4056.00 MB						

Figure 6.

The Program can interact with the Recorder only via Standard (USB 1.1) connection. Preview Mode is used to demonstrate the basics of the Recorder, operate the Program while the Recorder is off.

To apply Preview Mode copy the Recorder's content onto a removable media, launch the Program and select this type of connection.

**Attention!** Don't use Preview Mode with the program launched from the internal memory of the Recorder. This may cause program's error.

Notwithstanding the type of connection the program exchanges data with the Recorder. But the access to all functions is provided only at the connection via USB 1.1 interface. There is no direct connection with the Recorder in Preview Mode and therefore there is no access to some service information, serial number, charging status, clock etc. The command Synchronize Clock isn't active either.

Preview Mode connection is virtual emulating work with real Recorder.

#### 3.2 Program StartUp

When connecting the Recorder to the PC it is recognized as a removable storage. After the removable storage has been opened its main folder contains the program file RecManager.exe.

When being launched the program is initiating connection with the Recorder. If the Recorder is recognized Recorder content panel is displayed in record show mode. There is a status bar at the bottom side of the window.

When connecting the Recorder to the PC the LED at the front edge flashes for a short period of time, then goes out. Then the LED flashes when exchanging data with the PC. It's not recommended to switch off the Recorder to avoid data loss and other errors.

After the program has recognized the Recorder it sets whether the firmware version is compatible with the program's one. In case they are incompatible the program gives the names of firmware versions it can work with. To upgrade the program upgrade the Recorder's disk image.

When connecting it is also proved that the Recorder's content is protected with password (see Recorder's settings, Recorder's Password). With the password being applied a dialogue window is displayed to enter the password for further operating the Recorder.

With a wrong password entered the program offers to reset password by erasing the Recorder's content including settings. With this operation accepted the

program clears the Recorder's memory and resets its settings within a few seconds. After that connect the recorder off the PC, then connect it again or press the button Upgrade Recorder's Content and the program will switch to its standard mode. With the reset refused the program



Нет

Дa

Figure 8.

File Recorder Expl-

Alt+F4

Figure 9.

Exit

asks to enter password again until a right one is entered (after that the program switches to its standard mode of operating the Recorder), or the Recorder is turned off or Cancel button is pressed. In the latter case RecManager works as if the Recorder isn't connected at all.

1

#### 3.3 Main Menu

This section describes the structure of the Main Menu and gives a detailed description of its options.

<b>F</b> • 1	
<b>L</b> 11	
	$\rightarrow$

Exit — to exit the program

#### Recorder $\rightarrow$

Refresh content — forcedly upgrades (gets from the Recorder again) the settings, lists of records stored in the Recorder's memory; usually it is automatic.

Records — switches the Recorder content panel in to a mode of showing recordings that are in the recorder's memory.

Copy To PC — copies the items (recordings or files) selected in the Recorder content panel to the current folder of the Explorer panel. While copying recordings, the result file names are created on the base of a mask that is set in the program settings. While copying files their names stay the same. If there already is a file with the same name in the computer, the program suggests overwriting the file, changing the file name, or canceling the command. This command is active when the Explorer panel is visible.

Move To PC — is analogous to Copy To PC command, but after the command is finished, copied items are deleted.

Copy to default folder - copies selected in the Recorder content panel items (recordings) into a default folder that is set in the program settings. The Explorer panel can be invisible.

Move to default folder — is analogous to Copy to Default Folder command, but after the command is finished, copied items are deleted.

Erase selected items - erases from the recorder's memory items (recordings) selected in the Recorder content panel.

Format recorder memory — erases all the items from the recorder's memory.

Synchronize clock — sets the current PC time in the recorder.

Settings — shows a dialog window where you can see and change the recorder's settings. The settings are described in detail in the section Recorder's settings.

Recorder Explorer Language About... 🕘 Refresh content 🚺 Records F3 Copy to PC F5 Move to PC Shift+F5 付 Copy to default folder F6 Move to default folder Shift+F6 Erase selected items F8 🔊 Format recorder memory 🎒 Synchronize clock 🤊 Settings... F9 Connect Disconnect Connect type

Figure 10.

**Connect** — attempts to connect to recorder by means of the current type of connection.

Disconnect — disconnects from the recorder. It is recommended, that this command is activated before the recorder is disconnected from the PC.

**CONNECT type** — the current type of connection can be chosen in the menu of this command. After the type of connection is chosen, the command Connect is automatically implemented.

#### 

Show wave-file info - shows a window with characteristics of the chosen in the Explorer panel audio file along with the information about the file's digital watermarks - markers to check file's integrity; Recorder to have made the recording; time and date of the record.

Besides if the recording is made through telephone circuit with the help of RecAdapter, there would be an attempt to show the phone number of the call performed.

Go to default folder - sets a default folder of the program settings as a current folder of the Explorer panel.

Set current folder as default - sets the current folder as a default folder.

New folder — creates a new folder in the current folder.

**Delete** — erases selected in the Explorer panel items.

Refresh — refreshes the Explorer panel content.

Ctrl+I

Ctrl+G

Explorer Language About...

Show wave-file info

🏸 Set current folder as default

🖉 9 Go to default folder

👎 New folder

Delete

Refresh

Folders

Folders — shows/hides the folders' directories.

Explorer window — shows/hides the Explorer panel

**Notes:** Along with abovementioned functions of the Explorer panel, the list of folders and files

supports a content menu for all the items. Use the right mouse button or a correspondent button of the keyboard to call this menu. This menu is identical to the menu of the Explorer for Windows.

#### Language $\rightarrow$

- allows to choose a language for the program interface.

#### About...→

— shows a dialog window with the information about the producer and the program version.

Language	About
🖌 Англи	ийский (США)
Русск	ий
	Figure 12.

Rec Manager for Defence	
Version 2.3.11	
Telesystems	
All right reserved	
OK	

### 4. Recorder's settings

Rec Manager for Defence			-	
Recorder content		Explorer		×
		X 🖻 🕅		
Location D Records	Location			-
Re Size Date Duration Mode Status	1 Имя	Размер Тип	Изменен	
I       Size       0.01.1970 00:00:00       00:00:07         2       S12 K8       01.01.1970 00:00:00       00:00:07         3       S12 K8       01.01.1970 00:00:00       00:00:07         4       S12 K8       01.01.1970 00:00:01       00:00:07         5       S 12       01.01.1970 00:00:01:01       00:00:07         Mone:       20000 Hz; Mo comp       Dow         5       S 12       01.01.1970 00:00:01:7       00:01:59         Mr.       Recorder settings       Dow         General       Files       Advanced         Mone:       State       State         S 5       S 12       01.01.1970 00:08:17       00:01:59         Mr.       Recorder settings       State         General       Files       Advanced         Mone:       State       State         S S Kitz       6.6.6.Mitz       8 Kitz       1         Amplifier settings       Gain       H40.0 dB ×       Mode         Fist: Relesse Rate       312,5 dB/s       Slow Relea       Ecose	Ites           file_1(1970_01_01-00_00_1           file_2_(1970_01_01-00_00_1           file_3_(1970_01_01-00_00_2           ifle_3_(1970_01_01-00_00_2           file_3_(1970_01_01-00_00_2           ifle_3_(1970_01_01-00_00_2           ifle_3_(1970_01_01-00_00_2           ifle_3_(1970_01_01-00_00_2           ifle_3_(1970_01_01-00_00_2           ifle_3_(1970_01_01-00_00_2           ifle_3_(1970_01_01-00_00_2           ifle_3_(1970_01_01-00_00_00_2           ifle_3_(1970_01-00_00_00_00_00_00_00_00_00_00_00_00_00_	Pasiep Twn 285 K5 Winamp media file 265 K5 Winamp media file 211 K5 Winamp media file 255 K5 Winamp media file 4 653 K6 Winamp media file	Usereer 04.02.2011 04.02.2011 04.02.2011 04.02.2011 04.02.2011	1 1 1 1
Model: Defence 35840 FW: 3.6 5/N: CSWMLX117179 Power state: 1.43 TTT Recorder time: 01.01.15	70 00:21:18			
Total memory: 4096.00 MB Min. record time: 29:18:14 Memory free: 4056.00 MB				

Figure 14.

The dialogue window with the Recorder's settings is called from Recorder | Settings...

To adjust settings use options of **Settings** or the corresponding buttons of the Toolbar of this dialogue window.

The alterations are saved only after Store settings has been chosen (Figure 15, 4).

In case of undesired alterations the command **Restore settings** helps go back to the settings installed earlier (Figure 15, 3) if Store settings hasn't been accomplished.

Save to file command is intended to save current settings into the external file (Figure 15, 2).

Load from file command is intended for uploading recording settings from an ealier saved file (Figure 15, 1).

Factory settings command adjusts settings by default (Figure 15, 5)

#### 4.1 General settings:

General settings are situated in the insertion **General**.

Mode Mono C Stereo	Advanced Control type Circular recording Enabled Buffer size (% of Sound memory)	÷
Compression © No compression Bit rate	is O uLaw O ADPCM 4 bit O ADPCM 2 bit	
O 5 kHz C	🔿 6.6 kHz 🔿 8 kHz 🔿 10 kHz 🔿 13.3 kHz 💿 20 kHz	
Appelifier cath	tings	is
Gain	+40.0 dB 💌 Mode Fixed, Immediate 💌 Hysteres	_

Figure 15.

**Control type** — Switch is indicated without the opportunity to change it.

**Circular recording** — turns on circular recording mode. **Enabled** – turns on circular recording mode. Buffer size — the recorder's memory space can be distributed according to the user's desire to use memory for circular recording.

**Compression** — sets one of the types of compression, which is for the recording. In the Recorder Defence there is a setting "without compression" by default without the option to change this setting.

**Bit rate** — sets the sampling frequency for the recording (20000 Hz can be activated only for the mode "without compression" as well as in the Recorder Defence it is set by default without the option to change this setting.

As higher frequency band and "without compression" mode provide high quality of sound the Recorder Defence fixed particularly these settings.

Amplifier settings — this group of parameters is responsible for the microphone amplifier operation mode. This is set by default without the option to modify it in order to achieve better recording quality.

#### 4.2 Files settings

Folder Files has the following settings:

corder settings
🗢 🔒 🛃 🔁
General Files Advanced
On recorder connect       Restrictions         Auto download records to default folder       Disable erasing of non-downloaded records         Delete records after download       non-downloaded records
Default folder
E:\Documents\Voice Digital Recorder Files >>
File name mask
file_[rn]_([yyyy]_[mm]_[dd]-[hh_nn_ss])_[sn].wav
Example result: file_1_(2011_02_04-15_53_59)_SN123OCV345.wav
Close

On recorder connect — this group of switches specifies operations to be carried out automatically when connecting the Recorder (or when launching the program if the Recorder is already connected at the time it was launched). With the option Auto download records to default folder activated the records will be uploaded into the default folder the path to which is specified in the field Default folder. To change a default folder press ">>" button near the field and specify the corresponding folder in the appeared window (it can also be set from Explorer panel). You can also specify the desired uploading options: Non-downloaded records

uploading of records marked by the status Non-downloaded; Delete records after download
 deleting records uploaded at this operation.

File name mask — setting the mask, basing on which file name will be given, when the recording is uploaded to the PC. The example result is displayed in the bar Example result.

**Restrictions** — allows to forbid deletion of non-uploaded recordings with Disable erasing of non-downloaded records.

If when uploading records onto the PC the size of the final file is more than 2000 Mb, it would be split into several files with the size no more than 2000 Mb.

#### 4.3 Additional settings:

Recorder settings	×
) 🗠 🕞   🛃 😓 🔀	
General       Files       Advanced         Synchronize recorder time with system time       Record         Resume recording after reset       Passwo         Simple record quality setup       Simple amplifier settings	der password
Close	

The additional settings are situated in the insertion Advanced.

**Recorder password** — in this field you can specify a password which will be needed to connect the Recorder to the PC. If the password has been changed when saving settings the program asks to repeat password. In case the data don't match the password remains the same. The password may contain from 1 to 7 symbols, taking into account both language and the register. To deactivate password protection the field must be cleared, i.e. a blank password must be entered.

Figure 17.

Synchronize recorder time with system time — allows automatic synchronization of the recorder clock with the computer's clock. This will be performed automatically at each connection to the PC.

Ticked "Simplified settings" will change the appearance in the Tab "General", but that won't affect anything, as the option to change these settings is switched off.

### 5. Technical Support

If you haven't found a solution, you can always address Technical Support service. Technical Support is available via e-mail: <u>info@ts-market.com</u>. We are constantly upgrading our software and documentation. You can always download a new software version for free and get information on the items from our website: <u>http://www.ts-market.com</u>.