

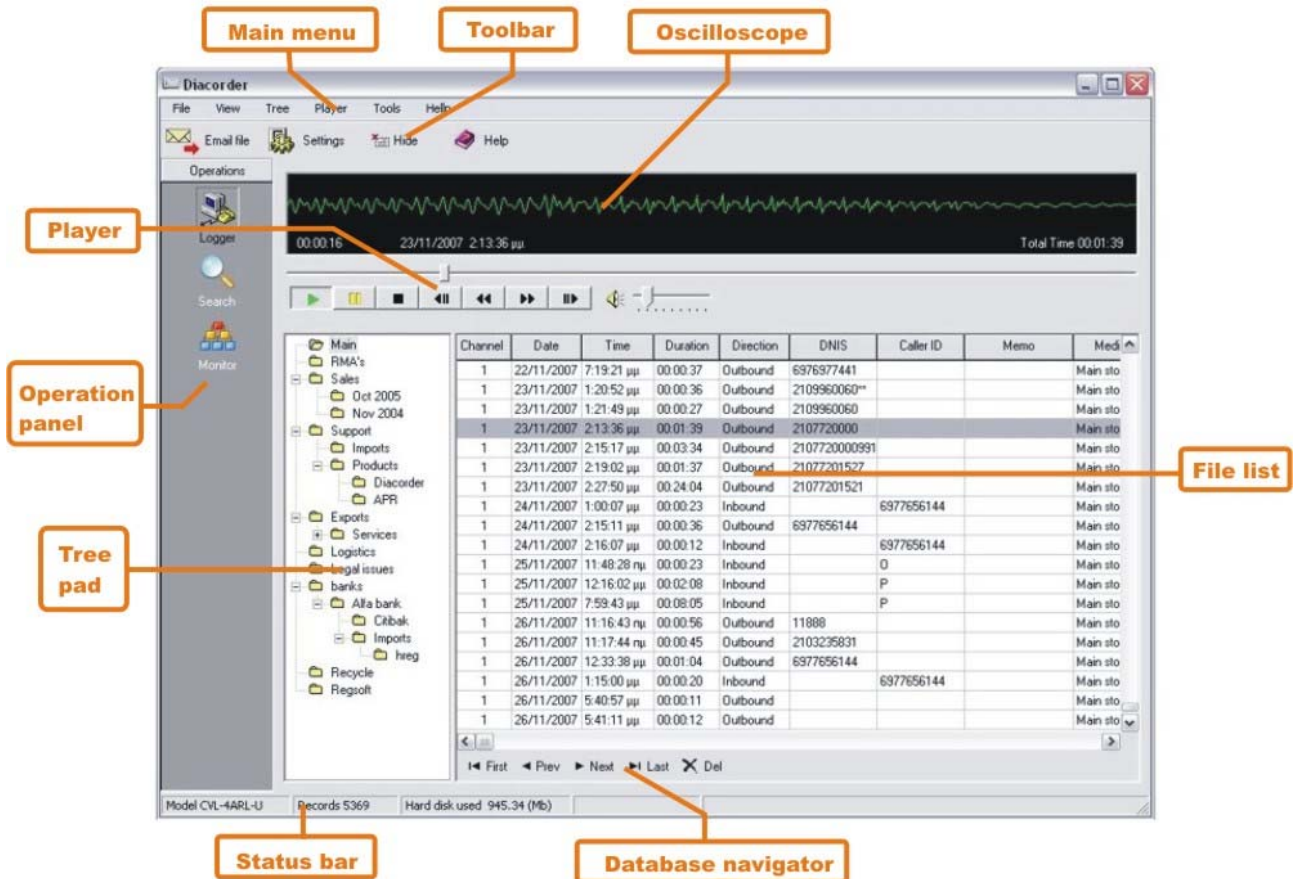
# Diacorder USB recording solution

Portability and flexibility worldwide. Digital signal processor inside.

We live in an information era of high speed and efficiency. Information flows to our work and life. Concel Systems has developed Diacorder USB using the latest microelectronics technology. Diacorder USB is able to assist your work in many ways that's beyond your imagination. Diacorder USB is easy to use. Plug the telephone line and phone on the device, and the USB cable to your PC. The only remaining thing is to install the software and is ready to work. Recorded items will be listed in the main form, including channel number, date and starting time, call duration, dialed number identification, caller ID, call direction and storage medium. You can click play button to listen to your recording from your PC speakers. You can pause, resume, fast forward, or rewind the recording. Diacorder USB can store the conversation in various formats such as a-law, u-law, IMA ADPCM, GSM or MP3. Advanced searching capabilities let you search the database with various filters and criteria. Diacorder USB may be used in areas of customer service line, business lines, securities and banking services, government hot lines, law enforcement lines, military lines, reservations and booking services, inquiry and information lines, production control, home phone lines. Diacorder USB is an ideal tool for call information management.



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The screenshot shows the Diacorder software interface with the following components labeled:

- Main menu:** File, View, Tree, Player, Tools, Help
- Toolbar:** Email file, Settings, Hide, Help
- Oscilloscope:** A waveform display showing signal activity.
- Player:** A playback control area with buttons for play, stop, previous, next, and volume.
- Operation panel:** A sidebar containing icons for Logger, Search, and Monitor.
- Tree pad:** A hierarchical folder structure on the left side of the main window.
- File list:** A table displaying recorded call data.
- Status bar:** Located at the bottom, showing 'Model CVL-4ARL-U', 'Records 5369', and 'Hard disk used 945.34 (Mb)'.
- Database navigator:** Navigation buttons at the bottom of the table: First, Prev, Next, Last, and Del.

Channel	Date	Time	Duration	Direction	DNIS	Caller ID	Memo	Medi
1	22/11/2007	7:19:21 µµ	00:00:37	Outbound	6976377441			Main sto
1	23/11/2007	1:20:52 µµ	00:00:36	Outbound	2109960060**			Main sto
1	23/11/2007	1:21:49 µµ	00:00:27	Outbound	2109960060			Main sto
1	23/11/2007	2:13:36 µµ	00:01:39	Outbound	2107720000			Main sto
1	23/11/2007	2:15:17 µµ	00:03:34	Outbound	2107720000991			Main sto
1	23/11/2007	2:19:02 µµ	00:01:37	Outbound	21077201527			Main sto
1	23/11/2007	2:27:50 µµ	00:24:04	Outbound	21077201521			Main sto
1	24/11/2007	1:00:07 µµ	00:00:23	Inbound		6977656144		Main sto
1	24/11/2007	2:15:11 µµ	00:00:36	Outbound	6977656144			Main sto
1	24/11/2007	2:16:07 µµ	00:00:12	Inbound		6977656144		Main sto
1	25/11/2007	11:48:28 µµ	00:00:23	Inbound		O		Main sto
1	25/11/2007	12:16:02 µµ	00:02:08	Inbound		P		Main sto
1	25/11/2007	7:59:43 µµ	00:08:05	Inbound		P		Main sto
1	26/11/2007	11:16:43 µµ	00:00:56	Outbound	11888			Main sto
1	26/11/2007	11:17:44 µµ	00:00:45	Outbound	2103235831			Main sto
1	26/11/2007	12:33:38 µµ	00:01:04	Outbound	6977656144			Main sto
1	26/11/2007	1:15:00 µµ	00:00:20	Inbound		6977656144		Main sto
1	26/11/2007	5:40:57 µµ	00:00:11	Outbound				Main sto
1	26/11/2007	5:41:11 µµ	00:00:12	Outbound				Main sto

## Features

- Compliant with USB2.0 bus standard, support hot swap, perfect for high-portability small scale systems
- no power supply needed. It's fed from USB port
- Connected to phone line through RJ11 connector.
- Programmable Voltage Thresholds
- Database storage. Channel, Date, Time, Duration, DNIS, Caller ID, Memo, Storage medium
- Channel monitoring activity
- Playback, Stop, Pause, Track recording.
- Tree pad for file classification.
- Direct emailing of files.
- Database extensive searching.
- Runs as a system service
- File annotation
- File emailing
- Voltage, VOX, on demand trigger
- Adjustable recording gain
- Automatic gain control
- Adjustable voltage trigger threshold
- Administrator and access password protection
- Alarm notification
- Scheduled channel recording
- Inbound and outbound call duration rejection filters
- Inbound caller ID rejection filter
- Outbound DNIS rejection filter
- Back up to CD, DVD, network
- HDD recycling
- Selectable storage medium

## Alarms

Hardware failure  
HDD full  
Call overtime  
Software error  
Thread error

## Box Contents

CVL-xARL-U device  
software CD (includes manual, software, drivers)  
2/4 channel splitters  
2/4 phone RJ11 cable  
USB cable

## Audio encoding

a-Law: 64Kbps  
u-Law: 64Kbps  
ADPCM: 32Kbps  
GSM: 13.6Kbps  
MP3: 8Kbps

## Hardware requirements

Pentium II or equivalent  
Interface: USB 2.0  
RAM: >=1 MB/unit USB box  
Hard Disk: >=1G

## Operating systems

Windows NT/2000/XP

## Technical specifications

Max boards per system:  
any combination up to  
128

## Audio signal

Receive range: -68 dBm to +3 dBm  
Input gain control: +20 to -20 dB  
Silence Detection: programmable  
Automatic Gain Control (AGC):  
Activity Detection: programmable.  
Frequency Response: 300 - 3400 Hz  
(+/- 3dB)  
Signal/Noise ratio: >=42dB  
Idle channel noise: <=60dB  
Crosstalk coupling: <=-70 dB

## Power requirements

+5 VDC: 400mA  
Watts (Max): 2.1W

## Tone detection

DTMF digits: 0 - 9, \*, #, A, B, C, D  
Dynamic range: -38 dBm to 0 dBm  
Minimum tone detection: 40 ms

## Tap interface

Insertion loss: <1dB  
Isolation: 500VDC  
AC Impedance: 10k Ohms  
DC Impedance: 2M Ohms  
Ring detection: 30Vrms (min), 16 to 68Hz  
Ringer Equivalence Number: 2/programmable  
Voltage detection: -62V to +62V  
Step=0.5V  
Caller ID: FSK/DTMF

## Safety and specifications

Lightning: level 4  
Certificates: FCC & CE & AS/NZS  
CISPR

## Models

Diacorder USB-2AC (2 analog  
channel passive call recorder)

Diacorder USB-4AC (4 analog  
channel passive call recorder)