Multichannel Voice Logger
PCVL PG SERIES

ORIGINAL EQUIPMENT MANUFACTURER
OF
VOICE LOGGING SYSTEMS

Radio and CTI Expert Organization

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PCVL-8PG FRONT SIDE

PCVL-8PG BACK SIDE

Product Information

PCVL is a PC based Multi-Channel Digital Recorder designed for obtaining extended recordings of Audio Signals. PCVL was specifically designed keeping in view an economical solution for extended recordings during surveillance and communications operations. The system is designed for maximum expandability at minimum cost.
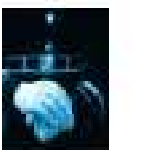
The Voice signal are recorded in compressed format on a magnetic media usually a Hard Disk Drive and immediately converted to nonproprietary .WAV format for playback. Recording can be triggered by Receiver pick-up (On Hook, Off Hook Mode), Audio activity (VOX Mode), Ring Detection Mode (Pseudo Mode), GSM / CDMA Mode (diverted SIM number).

Simultaneous monitoring of up to 64 channels is possible on a single system. A complete database containing all the call related information like In/out tag, Incoming/ Outgoing Numbers, Calling Date, Call Start Time, Call End Time, Call Duration etc. is maintained. Extended search capabilities on all the call related information is also available. There are also provisions for sorting records based on channel no., telephone no., date, start time, end time, call duration etc.

The Call Logging module would log all the call details, including the data and time for each call in a different file. The calls are logged onto the hard disk of a PC, which can record typically up to 100 hrs of speech (assuming 1GB). The logging will continue without human intervention. The administrator can get a summary of all the calls that have been logged, and can listen to them On-line. The Editing module is the other module, which will allow the message to be edited by standard operations such as Cut, Copy, and Paste etc. Both the environments will be interactive working under Microsoft Windows platform. Entire System is quite user-friendly and doesn't require any special Training for computer usage.

The System is able to pick up an incoming call as soon as the call is responded and start recording. When the caller hangs up, it detects the event and stops the recording, moreover the system also consists an feature of Voice Operated used in case of other media's like Radio communication, satellite communication etc.

Features

Voice Recording
Automatic Recording of both sides telephonic conversation/ audio/ radio conversation, simultaneously on all the channels.

Date & Time
Recording of Date, Time and duration of the call. Moreover the system also offers the start and stop time of the recorded calls.

Start / Stop Time
The system will also record Start and stop time of all the recorded conversations.

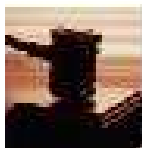### Duration
Duration of all the recorded calls are logged and can be reviewed on the main screen.

In / Out Tagging
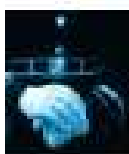Tagging for incoming (In) and outgoing (Out) numbers against the telephone numbers.

On Line Monitoring
Simultaneously, On–Line Monitoring of all the offered channels.

Sorting
A user-friendly operation for sorting through Channels No, calls (In / out), Start time, stop time, duration and Date & Time.

Searching
User friendly operation for searching the logged calls by Channel Numbers, Date and calls (In/ out)

Editing / Filtering
All recorded messages can be edited and filtered for noise and the actual meaningful message can be amplified for better sound quality.

Pseudo Lines
Automatic recording on Pseudo Lines i.e. Calls of a Cellular phone target diverted on a landline phone will be recorded automatically without any human intervention.

Features

Diverted Mobile Recording
Diverted Mobile calls Recording of any mobile phone

Multiple Mobile Numbers on any Channel with Priority Setting
Any Channel can accommodate up to ten mobile numbers, however only one call can be monitored at
a time. Multiple numbers can be assigned priorities, so that higher priority call can not be missed.

Audio Video Alarm with Target Name and Number for any higher priority call
Audio and Video alarms with Target Name and number for ease of operation

Link with Cellular / Phone Directory
Automatic link to Cellular Phone directory for searching the name and address of dialed and incoming mobile numbers. (Database from local mobile operators to be provided by the procuring agency)

Operating Principle
The system works on the principle of On / Off Hook, Pseudo (Ring Detection) ,VOX (Voice operated mode), Manual & GSM\CDMA Mode (Pseudo Mode) and all the modes are fully user programmable for individual target lines.

Adjustable Sampling Rate
Adjustable sampling rate for making the speech speed faster or slower.

Remote Playback
This feature allows playback of the recorded call on multiple channels on a remote Land Line or Mobile Phone.

- Play back authentication by password dialed from remote location.
- Option for continuous listening for pending call or call hang-up.
- Remote de-activation by user.

Features

Channel Filtering
This feature allows the user to independently configure channels to filter out the recorded calls having dialed number
- Starting With…
- Containing…
- Ending With…

Archiving
Backup of calls recorded on all channels.
- Selected Archiving lets the user select the calls, which has to be backed up.
- Complete Archiving creates a complete backup of calls that have been recorded

Alert/Indication
System will give alert on:
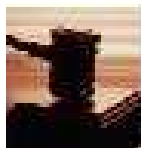- Disc Full/Approaching Full (Programmable)
- Target Active

Security
Multi-level security by Password Protection system (administration, Supervisor, Operator and Archiving)

BITE
Voice Logger is having comprehensive BITE capability which monitors continuously health of the System and informs Status. Diagnostic Software will provide any fault in the System

DET Code
Each system will be provided unique DET Code which will be utilized for Analysis of Call at Central Location
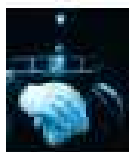
Compression
User has a choice to select from various compressions Algorithm to use the Hard Disk space in
 optimum way. Even; selection to record calls in RAW format is also available for recording digital tones

Remarks
Customized Solution for putting remarks (Call Details, Frequency, From, To, Group, Signal Strength, DF Information, Transcript, Memo, Commands) used to examine Telephone & Radio Interception Calls

pulse

Features

Log Details
Administrator will be able to get log of all the activities performed by the Users/Operators during Operation of the Voice Logger.

Call Analysis
Call Analysis of all the recorded calls will be available on the basis of various fields which are required
By various Government & Law Enforcement Organizations.

3rd Party Applications :-
Feature to integrate 3rd Party application used by the Customer such as Noise Filtering, Speaker
Recognition, Speech Analysis, Database etc.

Enhance Search Facility
Much advanced Search Facility is available to narrow down the search on multiple criteria's. Moreover
Strong Boolean functions are utilized in Search Options.

Fax Decoding (Optional)
System is equipped to intercept, log and decode almost all standard and non-standard G3 Fax. Customer
Has to order for this feature on additional cost. Feature not available in Standard System
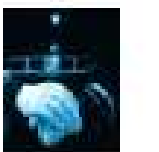
SMS Decoding
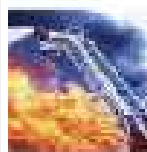System is equipped to decode SMS received on the Mobile Phone attached with the Voice Logger System

Technical Specifications

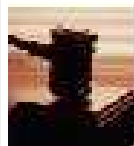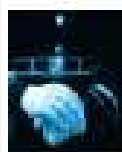|	
Channels	4/8/10/16……64 Analog/GSM Channels
Voice Coding Method	64 KBPS (A/M law) G.711 PCM
Trigger Mode	On-hook/Off-hook mode (High Impedance) Pseudo mode (Connect thru Ringing and disconnect via Busy tone) VOX mode with programmable threshold level Manual mode / Auto mode GSM / CDMA Mode (Pseudo Mode). Software Configurable.
Single Box	Single Voice Logger Box with Embedded GSM Modules (no overhead wiring).
Priority	Priority based Recording on channels having multiple diverted numbers.
PC Connectivity	USB based (No Serial/ Com Port Required)
Networking	Server Workstation Configurable.
Online Call Monitoring	Supported
FAX & SMS Recording	Supported
Storage capacity	On Hard Disk of PC Recording more 3000 than hrs on 80GB hard disk
Compression	ADPCM, A-LAW, M-LAW, PCM (User Programmable for each Channel)
Sampling Rate	8000 samples per second
Frequency Response	300-3400 Hz (+/- 3 dB)
Analog Input	1. Impedance 600 Ohm or > 20K 2. Balanced or Unbalanced
Cross Talk	Lesser than 50 dB
Distortion	Less than 3%
Signal to Noise ratio	Better than 40 dB
Recording Sensitivity	Better than 30 dBm
Dialed Number	DTMF/PULSE
Caller ID	DTMF
Power	12V DC/1 A

TECHNICAL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT OBLIGATION OR NOTICE