

PULSE COMMUNICATION SYSTEMS PVT. LTD.

Multichannel Voice Logger

PCVL SERIES



***ORIGINAL EQUIPMENT MANUFACTURER
OF
VOICE LOGGING SYSTEMS***

Radio and CTI Expert Organization



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PCVL—8

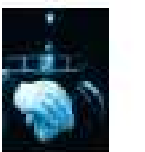


PCVL—4



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) for telephone line, Audio activity (VOX Mode) for VHF/UHF Radios, Manual Mode for HF Radios, Ring Detection Mode (Pseudo Mode) for Diverted Lines.

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 (VHF/UHF/HF) 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.

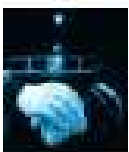


On Line Monitoring

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 (Optional)

Diverted Mobile calls Recording of any mobile phone



Multiple Mobile Numbers on any Channel with Priority Setting (Optional)

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.



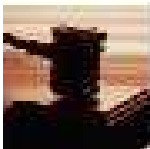
Audio Video Alarm with Target Name and Number for any higher priority call

Audio and Video alarms with Target Name and number for ease of operation



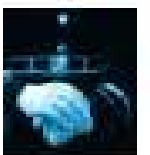
Link with Cellular / Phone Directory

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 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

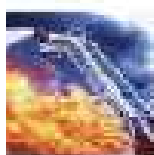
- Starting With...
- Containing...
- Ending With...



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

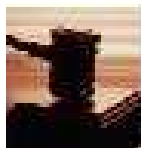


Security

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

DET Code

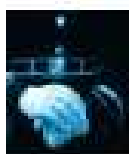
Each system will be provided unique DET Code which will be utilized for Analysis of Call at Central Location



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





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 Organisations.



3rd Party Applications :-

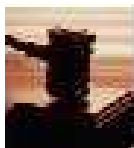
Feature to integrate 3rd Party application used by the Customer such as Noise Filtering, Speaker Recognition, Speech Analysis, Database etc.



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 (Optional)

System is equipped to decode SMS received on the Mobile Phone attached with the Voice Logger System

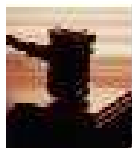
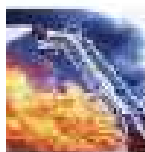
Please call for Technical Details and price s for Fax and SMS Decoding.
NOT INCLUDED IN OFFERED SYSTEM





Technical Specifications

Channels	4/8/10/16.....64 Analog Channels
Voice Coding Method	64 KBPS (A/M law) G.711 PCM
Trigger Mode	On-hook/Off-hook mode (High Impedance) for Telephone Line. Pseudo mode (Connect thru Ringing and disconnect via Busy tone) for Diverted Lines. VOX mode with programmable threshold level for VHF/UHF Radios. Manual mode / Auto mode for HF Radios
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	12VDC at 1 A



TECHNICAL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT OBLIGATION OR NOTICE