

MULTI CHANNEL VOICE LOGGER

MODEL: DVR MK I

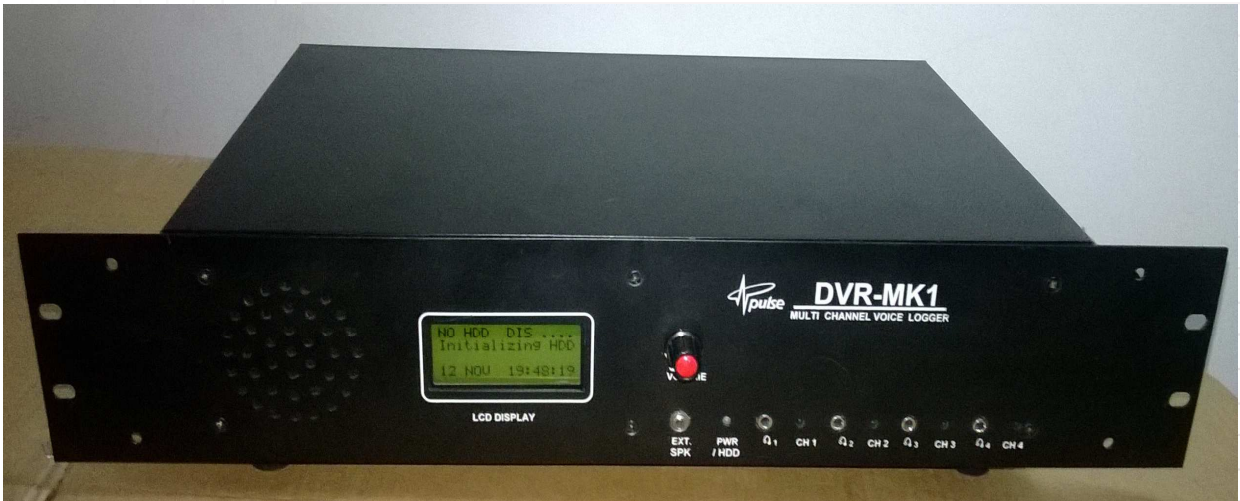


***ORIGINAL EQUIPMENT MANUFACTURER
OF
VOICE LOGGING SYSTEMS
Radio and CTI Expert Organisation***



PULSE COMMUNICATION SYSTEMS (P) LTD
Works: C-2 Industrial Estate, Ramnagar, Roorkee (UA) – 247667, India
Head Office: F-90/22, Okhla Industrial Area, Phase-1,
New Delhi – 110020, India.
Tel.: 011-26811761; 26817139 Fax: 011-26817138

Original Equipment Manufacturer of Voice Logging Systems



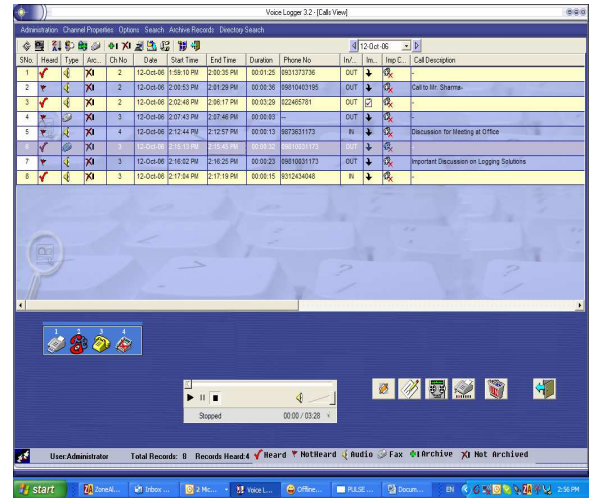
Model DVR-MK 1
STANDALONE VOICE LOGGER

PULSE COMMUNICATION SYSTEMS (P) LTD

Product Information

DVR MK-I is a Multi-Channel Digital Recorder designed for obtaining extended recordings of Audio Signals. DVR MK-I 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).



Simultaneous monitoring of up to 4 channels is possible on a single module. 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 the systems, which can record typically up to 40 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 side 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 is logged and can be reviewed on the main screen.

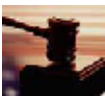


In / Out Tagging

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 Time 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 (Contd...)

Operating Principle

The system works on the principle of On / Off Hook, Pseudo (Ring Detection) and VOX (Voice operated mode) and all the three 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.



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
- Module not responding
- Abnormal Activity

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.

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.

Technical Specifications

Channels	4 Analog Channels (Expandable to 64 Channels))
Networking Capability	Through Ethernet
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
Storage capacity	On Hard Disk/Pen Drive of the Modules (four channel each) 240 GB Hard Disk on each module. Simultaneous Recording on PC Hard disk is possible
Sampling Rate	8000 samples per second
Frequency Response	300-3400 Hz (+/- 3 dB)
Analog Input	1. Impedance 600 Q or > 20K 2. Balanced or Unbalanced
Display Speaker	4 Lines LCD Display Internal 5 Watt (8 Ohm) Speaker (<i>External Speaker Provision</i>) Volume Control for Internal Speaker
User Interface	PS2 Keyboard
Online Monitoring	Through Audio Jack at Front Panel

Original Equipment Manufacturer of Voice Logging Systems

Cross Talk	Lesser than 50 dB
Distortion	Less than 3%
Signal to Noise ratio	Better than 40 dB
Recording Sensitivity	Better than 30 dBm
Warning Method	Audio / Visual
Dialed Number	DTMF
Caller ID	DTMF
Power	220VAC +/- 10%
Environment Condition	
Operating Temp.	0 – 45 Degree Cel.
Storage Temp.	20-60 Degree Cel;.
Humidity	85 % (Non condensing)