

Why TDR4000?

When your radio and phone communications gain vital importance for your business or in emergency and security matters, then it becomes crucial to report them in a reliable and accurate way. Events reconstruction based on conversations is hardly carried on with written notes or with statements that rarely agree: that's why communications recording, with date/hour/minute/second, becomes essential for clarifications, controls, analysis and transcriptions.

- ◆ Analog Lines, ISDN BRI/PRI, Special Protocols, VoIP, Radio
- ◆ 4 - 8 - 12 - 16 analog channels, 2 - 4 - 8 ISDN BRI
- ◆ 1 ISDN PRI E1 (30 channels)
- ◆ 32 VoIP SIP H323 MGCP NSIP, HFA channels
- ◆ Possibility of mixed configurations for max 32 total channels
- ◆ Simultaneous playback recording
- ◆ Live communications monitoring during recording
- ◆ More than 200.000 hours of on-line audio
- ◆ 2 Gigabit Ethernet LAN ports
- ◆ Online recognition of DTMF tones
- ◆ Date/time association of the archived recordings
- ◆ Parameters for quick searching of recordings
- ◆ DVD-RW drive for historical archive
- ◆ High audio quality, during recording and playback
- ◆ Software for remote LAN operations
- ◆ Possibility of Conference access with DTMF password
- ◆ Multilevel passwords for system access
- ◆ System entirely developed in Italy by TEMA Telecomunicazioni which provides support and the possibility of software customization by customer's needs

TDR4000 is a digital integrated system for recording and indexing of audio-radio-telephone calls, and particularly suitable for all applications that require a high degree of safety and reliability, from 4 to 32 channels analog and/or digital ISDN or in mixed configurations with **VoIP SIP, H323, MGCP, NSIP channels**.

TDR4000 allows to simultaneously record on all connected lines with a storage capacity of over 200.000 hours before the old messages are deleted. **TDR4000** is equipped with a DVD-RW drive for the historical archive of communications. The database storage can also be distributed on a remote server accessible via LAN network. The architecture of the system always ensures the functions of instant viewing of all system activities. Thanks to the new V.2.0 software, the search/listening capabilities (by setting parameters as Date/Time/Period/Duration/Called number/etc.) are simple and intuitive, always protected by multilevel passwords.

TDR4000 systems meet the users most sophisticated operating requirements.

- ◆ DVD-RW
- ◆ 1-2 HD
- ◆ > 200.000 hours
- ◆ Analog
- ◆ ISDN
- ◆ VoIP



NEW! V.2.08

NEW SOFTWARE RELEASE FOR RECORDING VoIP SIP H323 MGCP NSIP HFA CHANNELS IN MIXED ANALOG AND ISDN CHANNELS CONFIGURATIONS.

From over 30 years professional multichannel recorders for telecommunications and security under ISO 9001:2015 Certification.

APPLICATIONS

- ◆ Banks - Financial Transactions - Agents of Change
- ◆ Airports - Air Traffic Control Centers (ATC)
- ◆ Public Safety - Government Agencies - Railways
- ◆ Surveillance Institutes - Fire Department
- ◆ First Aid - Doctor - Military and Defense
- ◆ Emergency Services - Radio and Television
- ◆ Transport - Energy - Industry - Call Center/Contact
- ◆ Insurance - Telemarketing - Opinion Poll - Order Entry
- ◆ Radio Communications - Penal institutions
- ◆ Recording of general radio-telephone communications

Optionals

TDR4000/PAS	Password management licence for Audioconference access
TDR4000/CLI	LAN client licence
AA-01	Coupler for special devices handset
AA-02	2-channel active mixer
TDA-01	Device for message and tone warning
TDR-SWGB	Switch with monitor port (Span Port)
TDR-NAS	NAS external drive from 2TB to 84TB
MON-19L	19" Color LCD monitor
UPS	Uninterruptible Power Supply



Rear Panel

HARDWARE PLATFORM

Miditower PC, **Industrial Motherboard -10° C +65° C**, Cpu Intel i3 or over, 4 PCI Bus slots, RAM 4GB, 2 LAN ports, monitor, keyboard and mouse. Windows 10 Pro 64bit.

CHANNELS CONFIGURATIONS

4 channels upgradeable up to 8, analog lines and/or ISDN BRI or 1 ISDN PRI, Radio Channels, VoIP SIP, H323, MGCP, NSIP, HFA, channels.

STORAGE TECHNOLOGY (DRIVE)

1 DVD-RW 4,7 GB, ROM discs DVD-R type, rewritable discs DVD-RAM type.

LINES INTERFACE

Analog lines with high input impedance > 20 Kohm or DC isolated impedance of 600 ohm and selectable per channel, input sensitivity from 20 mV rms to 2V rms.

RECORDING AND PLAYBACK

Bandwidth: 300...3400Hz +/- 3dB
 Sampling: 8Khz 8 bit PCM 64Kb/s
 Compression: 1:1 A-Law 8.0 KB/s
 (selectable) 7:1 compr. 1.2 KB/s

Date/time related to the recorded communications automatically associated by the internal clock can be externally synchronized via RS232 serial port with a DCF or GPS receiver.

RECORDING FUNCTIONS

Start from VOX/RING, ISDN decoding.
 Simultaneous recording and playback.

PLAYBACK FUNCTIONS

Instantaneous playback on all channels, on-line or off-line without interruption of recordings from HD internal buffer of the last 200.000 hours or from external media (CD or DVD) of the historical archive.

Play, Stop, Pause, Fast Forward, Loop of a fraction of the communication, playback in the proximity of the placed markers.

EXPORT OF COMMUNICATIONS

Exporting of all communication in .WAV audio format.

AUDIO OUTPUT

Output for external speaker, headphone jack and for duplication of any parts or entire messages with an external recording device.

ALARMS AND SECURITY

Alarm signals in case of system failure, display with detailed reports for analysis. Passwords with different user privileges for system access.

DATA ACCESS

Instant recall of recorded communication (even if not finished), replay of the last communication (Last Call Repeat), playback of recorded media archive.

COMPATIBILITY AND CERTIFICATIONS

TDR4000 is compatible with CE requirements on security and EMC according to the current EU laws.

POWER SUPPLY - CONSUMPTION

Power supply 500W
 Power Input selectable from:
 100-127V_{AC}, 200-240V_{AC}, 47...63Hz
 Certifications: UL, CSA, EN60950, TUV, FCC, CE
 It is recommended to use an optional uninterruptible power supply (UPS) for unstable power situations.

DIMENSIONS AND WEIGHT

Compact Desktop PC for vertical operation.
 Dimensions L180 x H408 x W454mm. Weight 7,5 Kg.

OPERATING TEMPERATURE

Environment: installation in office, from 5° C to 40° C, stock from -20° C to +60° C.

RELATIVE HUMIDITY

10%-80% not condensing.

"IP COMMUNICATION AND SECURITY COMPANY"



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