

Enhanced Terminal Voice Switch (ETVS)



With a long term Federal Aviation Administration (FAA) contract to produce as many as 440 ETVS systems, ETVS will clearly be the most widely used Voice Communication System (VCS). Now with all the key international features and functions added, ETVS is the best VCS solution worldwide.

The ETVS will be used well into the 21st century. Denro Systems was awarded the ETVS contract in 1995. For the next 10-15 years the ETVS will be the standard VCS for the FAA and all branches of the U. S. Department of Defense (DoD). The size of this contract virtually guarantees that Denro will be in the VCS business long term, fully supporting both our domestic and international customers. This support will consist of all the benefits of long term production including planned product improvements, reasonably priced spares, and supplemental training courses throughout the product life.

The ETVS is a fully integrated, distributed microprocessor-controlled, Time Division Multiplexed (TDM) VCS with extensive redundancy features and built-in diagnostics. This system provides superior voice quality, non-blocking access to all audio channels, and a Windows-based System Control Terminal (SCT). The user friendly SCT allows for easy reconfiguration, expansion, and maintenance.

Feel confident that with air traffic growing at a steady rate, ETVS is the low risk, high quality, cost-effective VCS solution for you. Denro's leading-edge technology is the answer to all modern ATC, ATM and C³ challenges.

Please contact us with your system requirements today.

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PRODUCT SPECIFICATIONS

Systems Functions:	Integrated intercom, telephone, and radio communications
Systems Availability:	>0.99995 (The ETVS has fully distributed processing and redundant critical elements so no single failure can affect the entire system.)
System Architecture:	TDM method using PCM digitized voice switching
Call Setup:	200 ms maximum
PTT Keying:	<50 ms
Programmable Buttons:	66 DA keys and 30 radio keys per each Touch Entry Display (TED)
Recorder Output:	All position, telephone, and radio interfaces are 600 ohms
Frequency Response:	300-3000 Hz, -0.5 dB to +1.0 dB
Impulse Noise:	≤1 hit above 47 dBrnC0 in a 30 minute period
Background Noise:	≤20 dBrnC0 at any output
Crosstalk Isolation:	Between 68 dB and 102 dB
Headset Volume Limiter:	>20 dBm to -20 dBm ±1 dB in 10 ms or less
Harmonic Distortion:	≤2.2%
Voice Level Regulation (AGC):	-18 to +3 dBm0 in to -10 dBm0 out
Radio Channel PTT:	Dry contact, ground, 48V, 24V
DTMF Signaling:	Per EIA/TIA-464A-1
Digital Interface:	ISDN BRI, PRI, ATS QSIG
Analog Telephone Interfaces:	PSTN, PBX, Analog with loop start and ground start, Manual ringdown, Voice in/Voice out, SS-1/SS-4, ASU, LDL, 4-wire E+M, MFC R2, IVA-14
System Power:	176-276 Vac, 47-64 Hz, single phase via system power supplies producing 27.5 Vdc at 125 A each
Battery Back Up:	20 minutes minimum
Temperature:	10 - 40°C (50 - 104°F)
Relative Humidity:	10-80% non-condensing
Altitude:	Up to 10,000 feet (3048 meters)
Maximum Luminance:	Up to 1020 nits
Mechanical:	Standard, Mobile, and Ruggedized mounting available
Standards:	FCC part 15 and 68, CE Mark, UL 1459, Y2K Complaint

Abbreviated Dialing
 Advanced Auto Routing
 ATIS Operation
 Best Signal Selection (Voting)
 Built-In Test Equipment (BITE)
 Call Forward
 Call Hold
 Call Queuing
 Call Release
 Call Transfer
 Chime Cut-off
 Climax Operation
 Conferencing

- Pre-Set
- Progressive

 Crash Phone Function
 Direct Access
 Display of Radio Frequencies
 Dual Jackbox (Instructor/Trainee)
 Facility Door Release
 Frequency Add/Delete
 Frequency Cross Coupling
 Frequency Forward
 Indirect Access
 Intercom
 Independent Tx and Rx Selection
 Last Number Redial
 LDL to LDL Dialing
 Lightning Protection for External Circuits
 Line Hunting in Trunks
 Main/Standby Radio Selection
 Maintenance Panel/Position
 Maintenance PC Terminal

- Alarm Reporting
- Equipment Status Monitoring
- Remote Maintenance Monitoring

 Override (Barge-in)
 Password Protection
 Position Self-Test/Diagnostics
 Position Monitoring
 Public Address Function
 Push-To-Talk (PTT) Operation

- Lockout
- Priority Preemption

 Radio Retransmission
 Radio/Telephone Patching
 Receiver Muting
 Recording

- Operator Position
- Radio Interfaces
- Telephone Interfaces

 Relief Briefing
 Remote Operator
 Remote Radio Access
 Reconfigure Enable
 Reconfiguration PC Terminal
 Selcal Radio Interface
 Sidetone Volume Control
 Squelch Break Indication
 Speed Dial
 Split Position Operation
 Supervisory Record Function
 Traffic Data Collection
 Uninterruptible Power Supply (UPS)
 System
 VOX Detection

For more information, please contact:

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