
Automating Data Recording and Retrieval

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Automating Data Recording

- Reduced Operational Expenses
 - » Less direct labor required
- Increase System Reliability
 - » Less chance of human error
- Remote Locations
 - » Unmanned remote operation

System Components

- Signal Conditioning
- Data Multiplexing
- Digital Cassette Recorder
- Robotic Cassette Library
- System Controller
- System Software

Signal Conditioning / Data Multiplexing

- Anti-aliasing Filtering
- Analog to Digital Conversion
- Bit Synchronization
- Time Code Decryption
- Bus Monitoring
- PCM Clock & Data
- Multiplex Multiple Asynchronous Data Streams
- Time Tag Data
- Build Composite Data Stream for Recording

Digital Cassette Recorder / Robotic Cassette Library

- High Density Data Storage on Low Cost Cassette Media
- Robotics Compatibility
- Automated Cassette Loading
- Cassette Identification & Verification
- Multiple Indices

System Controller Software

- Control and Coordination of all Components
- Status and Error Reporting for all Components
- Tape Drive Mode
 - » ping-pong, redundant, independent
- Multiplexer Configuration

System Controller Software

- Tape Volume Management
 - » Database Functions
- Time Code Tape Search Functions