

# DIGITAL VIDEO RECORDING TAKES WING



**FALCON™**

**EAGLE™**

**HUMMINGBIRD™**



LEGACY REPLACEMENT, OR  
SINGLE CHANNEL PLUS FTI™



2 CHANNEL AUDIO/VIDEO  
PLUS OPTIONAL FTI™  
PLUS 2 OPTIONS



2 CHANNEL AUDIO/VIDEO  
PLUS OPTIONAL FTI™  
PLUS 4 OPTIONS

OPTION MODULES  
2 CHANNEL VIDEO EXPANSION  
VIDEO SCAN CONVERTER  
MIL-STD-1553B, ARINC-429  
IMPROVED DATA MODEM  
MULTIPROTOCOL COMMS  
MIL-STD-704F POWER DROPOUT



# PhotoTelesis®

## DVR FAMILY



**SYMETRICS  
INDUSTRIES**

*Symetrics Technology Group Companies*

# THE PHOTOTELEESIS FAMILY OF

HUMMINGBIRDS



# DVR

## HUMMINGBIRD - LITE™

LEGACY REPLACEMENT - "DROP & SWAP"

- "DROP IN" REPLACEMENT FOR LEGACY TAPE RECORDER
  - SAME FOOTPRINT AND MOUNTING PROVISIONS\*
  - LIGHTER AND SMALLER
  - SAME ELECTRICAL CONNECTIONS AND CONTROL
- VIDEO INPUTS: RS-170, RS-170A, COMPOSITE, S-VIDEO
- VIDEO STANDARDS: NTSC, PAL
- MPEG-2 COMPRESSION
- REMOVABLE MEMORY MODULE (RMM)
  - SOLID STATE, 8 GB . . . TO 64GB
  - USB 2.0 INTERFACE FOR PC BASED PLAYBACK
- PLAYBACK SOFTWARE - SEE BACK COVER



H: 3.55"

## HUMMINGBIRD

SINGLE CHANNEL WITH FAST TACTICAL IMAGERY (FTI™)

- SAME FEATURES AS ABOVE, PLUS
  - IMAGE RECEIVE/TRANSMIT
  - SINGLE FRAME OR BURST CAPTURE
  - IMAGE PROCESSING AND ANNOTATION
  - PTAC COMMUNICATIONS
  - TACTICAL RADIOS, SECURE OR NON-SECURE
  - ETHERNET INTERFACE
  - NETWORK ENABLED OPTIONS
  - 128 PIN MIL-C38999 CONNECTOR

\*DZUS MOUNTING ADAPTER ALSO AVAILABLE FOR HUMMINGBIRD

# DIGITAL VIDEO RECORDERS



H: 4.73"

## ONE FOOTPRINT

W: 5.83" D: 6.33"



H: 5.91"



## FALCON & EAGLE DVRs

2 CH VIDEO/AUDIO, MPEG-2 COMPRESSION

2 CH AUDIO AND 1 CH VIDEO PLAYBACK

REMOVABLE MEMORY MODULE (RMM)

- SOLID STATE, 8 GB . . . TO 64GB, USB 2.0 INTERFACE FOR PLAYBACK
- PLAYBACK SOFTWARE - SEE BACK COVER

### HARDWARE OPTION MODULES

( 2 FOR FALCON\*, 4 FOR EAGLE )

- 2 CHANNEL VIDEO EXPANSION
- VIDEO SCAN CONVERTER
  - CONVERTS COMMON VGA FORMATS
- MIL-STD-1553B, ARINC-429
  - MULTIPLE CHANNELS
  - DUAL REDUNDANT (1553B ONLY)
  - DATA RECORDING
  - ETHERNET BRIDGE
  - DVR AND FTI™ CONTROL
- IMPROVED DATA MODEM
  - MIL-STD-188-220 COMMS (VMF)
- MULTI-PROTOCOL COMMUNICATIONS
  - PTAC
  - MIL-STD-188-184
  - MIL-STD-188-220 (VMF)
- MIL-STD-704F POWER DROPOUT

### SOFTWARE OPTIONS

- FAST TACTICAL IMAGERY™
  - IMAGE TRANSMISSION AND RECEPTION
  - SINGLE FRAME OR BURST IMAGE CAPTURE
  - IMAGE PROCESSING AND ANNOTATION
  - TACTICAL RADIOS, SECURE OR NON-SECURE
- STREAMING MPEG-2 VIDEO OVER ETHERNET
- GPS RECORDING OF NMEA 0183 GPS DATA
- RS-232/RS-422 RECORDING OF SERIAL DATA
- MPEG-4, H.264, M-JPEG RECORDING
- REMOTE CONTROL OPTIONS
  - RS-232/RS-422 SERIAL CONTROL
  - RCU-404 SERIAL REMOTE CONTROL UNIT
  - RCU-405 DISCRETE REMOTE CONTROL UNIT
  - DISCRETE CONTROL WIRES
  - MIL-STD-1553B
  - ETHERNET
  - USB

## NETWORK ENABLED OPTIONS

ALL DVRs EXCEPT HUMMINGBIRD - LITE

CONFIGURABLE TO MEET SPECIALIZED MISSION NEEDS

- STREAMING VIDEO FOR OFF-PLATFORM TRANSMISSION
- VIDEO SERVER FOR VIDEO PLAYBACK
- FILE SERVER FOR TRANSMISSION/RECEPTION
- FILE SERVER FOR STORAGE AND RETRIEVAL
- ETHERNET BRIDGING FOR GPS, RS-232, RS-422 AND 1553B DATA (1553B N/A FOR HUMMINGBIRD)
- LINK TO OTHER APPLICATIONS, SUCH AS MOVING MAP, MISSION COMPUTER, ETC.



\* DZUS MOUNTING ADAPTER ALSO AVAILABLE FOR FALCON

# PLAYBACK SOFTWARE - ALL DVRs

MULTIPLE PLAYBACK SOLUTIONS TAILORED TO CUSTOMER'S NEEDS

- **WINDOWS MEDIA PLAYER® (WMP)** - WINDOWS® 2000 OR WINDOWS XP PC'S. NO ADDITIONAL SOFTWARE IS REQUIRED.
- **MISSION VIDEO PLAYER - LITE (MVP-LITE)** - MORE ADVANCED PLAYBACK. SINGLE CHANNEL WITH SYNCHRONIZED METADATA SUCH AS EVENT MARKS AND GPS DATA.
- **MISSION VIDEO PLAYER (MVP)** - MULTI-CHANNEL SYNCHRONIZED PLAYBACK WITH SOPHISTICATED, USER-FRIENDLY GUI. FOUR CHANNELS OF FULL RESOLUTION, FULL MOTION PLAYBACK AND SIX ADDITIONAL CHANNELS OF THUMBNAIL VIEWING.
  - VCR LIKE PLAY, STOP, ADVANCE CONTROLS.
  - SLIDER BAR ACCESS TO ANY TIME LOCATION
  - ON SCREEN EVENT MARKER DISPLAY
  - SIMULTANEOUS PLAYBACK - UP TO FOUR MISSION RMMs
  - DRAG AND DROP OF VIDEO PLAYBACK WINDOWS
  - FULL SCREEN VIDEO PLAYBACK
  - FREEZE FRAME IMAGE CAPTURE AND PRINT
  - METADATA DISPLAY CAPABILITY FOR EVENTS, GPS AND OTHER DATA
  - EVENT LIST DIALOG FOR VIDEO EVENT VIEWING
  - EXPORT TO CD AND DVD



# PhotoTelesis®

PhotoTelesis, LP • 4801 NW Loop 410 • San Antonio, Texas 78229  
Tel: 210-349-2020 • Fax: 210-349-2070 • [www.photot.com](http://www.photot.com)  
Email: [phototsales@photot.com](mailto:phototsales@photot.com)



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