

CHAMELEON IIIB Airborne ECM Simulator

FOR AIRBORNE ECM TRAINING
APPLICATIONS

CHAMELEON IIIB



- ✓ **2 Coherent Independently Controlled DRFM Channels**
- ✓ **Includes Non-Coherent Noise Channel**
- ✓ **0.8-18 GHz Coverage (26.5-40 GHz Option Available)**
- ✓ **400 MHz Instantaneous Bandwidth**
- ✓ **Qualified Airborne Internal Installation**
- ✓ **Enhanced ECM Technique Generation**
- ✓ **PRI Predictor Provides Up/Down Range Targets**

System Features

- ❑ **2 DRFM Channels + 1 Non-Coherent Noise Channel Simultaneously**
- ❑ **Integrated PRI Prediction Allows Signals to be Placed Between Own Platform and Radar**

RF Characteristics

- ❑ **0.8 -18 GHz Continuous Operation**
- ❑ **400 MHz Instantaneous Bandwidth**
- ❑ **IFM/LOG Video Threshold Receiver for Fast Set-On**
- ❑ **Digital Receiver (1 nsec rate) for Signal Analysis**
- ❑ **-65 dBm Sensitivity**
- ❑ **>60 dB Dynamic Range**
- ❑ **0 dBm Output Power (typical)**
- ❑ **<-30 dBc Harmonics/Spurious**

DRFM Control Features

- ❑ **1000 msec Memory Depth**
- ❑ **<16 nsec Delay Resolution**
- ❑ **10 MHz Doppler at 0.5 Hz Resolution**
- ❑ **Programmable System Threshold**
- ❑ **Pulse & CW Operation**
- ❑ **Re-Circulation and By-Pass Modes**

Information Subject to Change Without Notice

Visit the EWST Web Site at www.ewst.co.uk

Software Features

- ❑ **Full Suite of ECM Techniques**
 - * **RGPO(I)**
 - * **VGPO(I)**
 - * **Coordinated RGPO(I)/VGPO(I)**
 - * **Noise - Spot/Burst/Swept/Blinking**
 - * **Inverse Gain**
 - * **Range/Frequency False Targets**
 - * **Velocity Noise**
 - * **Amplitude Modulation**
 - * **RBM and VBM**
 - * **IPRM**
 - * **APRM**
 - * **Coherent Clutter**
- ❑ **Windows™ GUI Software**
- ❑ **READ/WRITE DRFM Memory Control for Signal Analysis and Target Synthesis**
- ❑ **“Fill-in-the-blanks” ECM Techniques**
- ❑ **User Defined ECM Libraries**
- ❑ **Remote Operation via Ethernet**

Other Features

- ❑ **RTCA-160D Qualified**
- ❑ **Built-in-Test to LRU Level**
- ❑ **VxWorks™ Real Time Processing**
- ❑ **Power PC™ Implementation**
- ❑ **18-30 VDC Operation**
- ❑ **19” Rack Mountable**
- ❑ **In Production Availability**



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