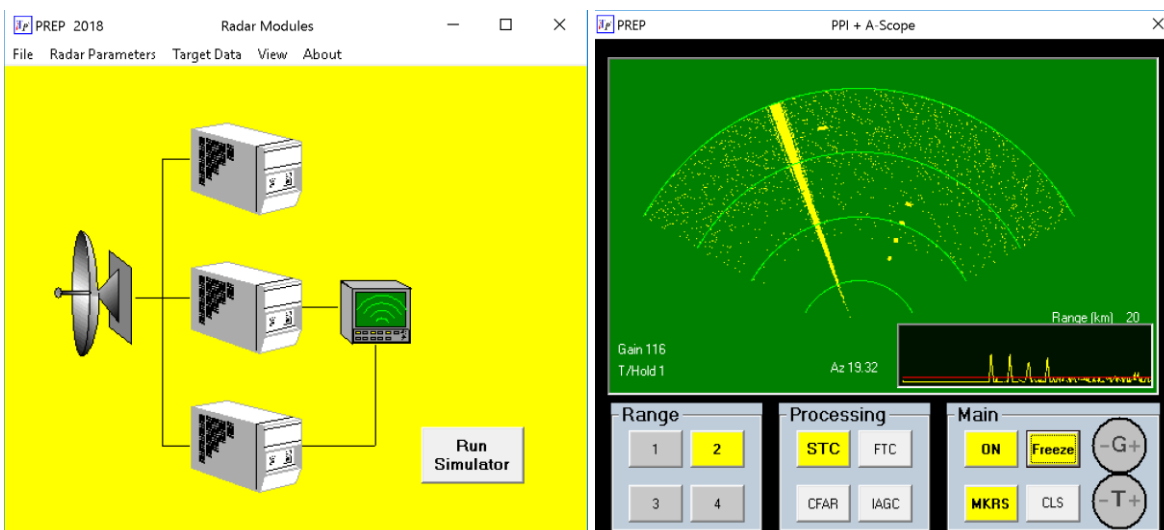




# PREP2i



## Primary Radar Engineering Program



---

***Still the No 1 entry level Radar/EW Simulation program!***

---

### ***What is PREP ? ‘The Radar CBT Solution!’***

***PREP is a PC based, pulse radar software simulator, designed to assist with Operator training, to teach radar Students, for use by radar Engineers, and EW instructors.***

***A key feature of PREP is the integral Electronic Warfare capability.***

***PREP uses CBT to enable users to vary radar parameters, and then observe the effect on the near real-time simulated radar screens.***

***PREP uses standard displays and signal processing techniques, which help to familiarize users with typical, modern pulse radar systems.***

<b>Synchronizer/Exciter</b>	
<i>Frequency</i>	<i>100MHz to 50GHz</i>
<i>Pulse Width</i>	<i>100ps to 1ms</i>
<i>PRF</i>	<i>10Hz to 50kHz</i>
<i>Pulse Compression Coding</i>	<i>Linear FM or Barker Coding (up to 13 Bits)</i>
<b>Control &amp; Display Unit</b>	
<i>Display Formats</i>	<i>PPI or B-Sweep with additional A-Scope</i>
<i>Number of ranges</i>	<i>Four Variable</i>
<i>Maximum Range</i>	<i>1m to 500km</i>
<i>Display Options</i>	<i>Range Markers, Freeze, Clear Screen</i>
<b>Receiver</b>	
<i>Receiver Gain</i>	<i>30 to 150dB, Linear or Logarithmic</i>
<i>Video Threshold</i>	<i>0.1 to 10V</i>
<i>Receiver Noise Factor</i>	<i>1 to 50</i>
<i>Receiver Temperature</i>	<i>150 to 400 Kelvin</i>
<i>Signal Processing</i>	<i>FTC, IAGC, CFAR, STC</i>
<b>Transmitter</b>	
<i>Peak Power</i>	<i>1mW to 1MW (-30 to +60dBW)</i>
<b>Antenna</b>	
<i>Antenna Type</i>	<i>Parabola, Cassegrain, Phased Array</i>
<i>Antenna Dimensions</i>	<i>1cm to 100m in Azimuth and Elevation</i>
<i>Scan Width</i>	<i>1 to 120 degrees in Azimuth</i>
<i>Scan Type</i>	<i>Mechanical or Electronic</i>
<i>Scan Speed</i>	<i>1 to 120 degrees per Second</i>
<i>Plumbing Loss</i>	<i>0.01 to 20 dB</i>
<i>Antenna Radiation Pattern Plots</i>	<i>2D and 3D with Redraw</i>
<b>Targets, Noise Jammer and Repeater</b>	
<i>RCS (m<sup>2</sup>)</i>	<i>0.0001 to 100</i>
<i>Range</i>	<i>0.01m to 500km</i>
<i>Bearing</i>	<i>-60 to +60 degrees in Azimuth</i>
<i>Jamming</i>	<i>CW Noise, On-board or Off-board</i>
<i>Target 1 Repeater</i>	<i>1, 2, or 3 Repeats / Delays 1sec to 30sec / Gain -60dB to +60dB</i>
<i>Noise ERP</i>	<i>1µW to 1kW</i>
<i>Bandwidth</i>	<i>10kHz to 2GHz</i>
<i>Range</i>	<i>0.01m to 500km</i>
<i>Bearing</i>	<i>-60 to +60 degrees in Azimuth</i>
<b>Chaff</b>	
<i>Weight</i>	<i>0.01 to 9999 grams</i>
<i>Range</i>	<i>0.01m to 500km</i>
<i>Width, Depth, Height</i>	<i>1 to 10000m</i>
<i>Bearing</i>	<i>-60 to +60 degrees in Azimuth</i>
<b>*****The Electronic 'Blake' Chart and Maximum Range Plot*****</b>	