PC22x8

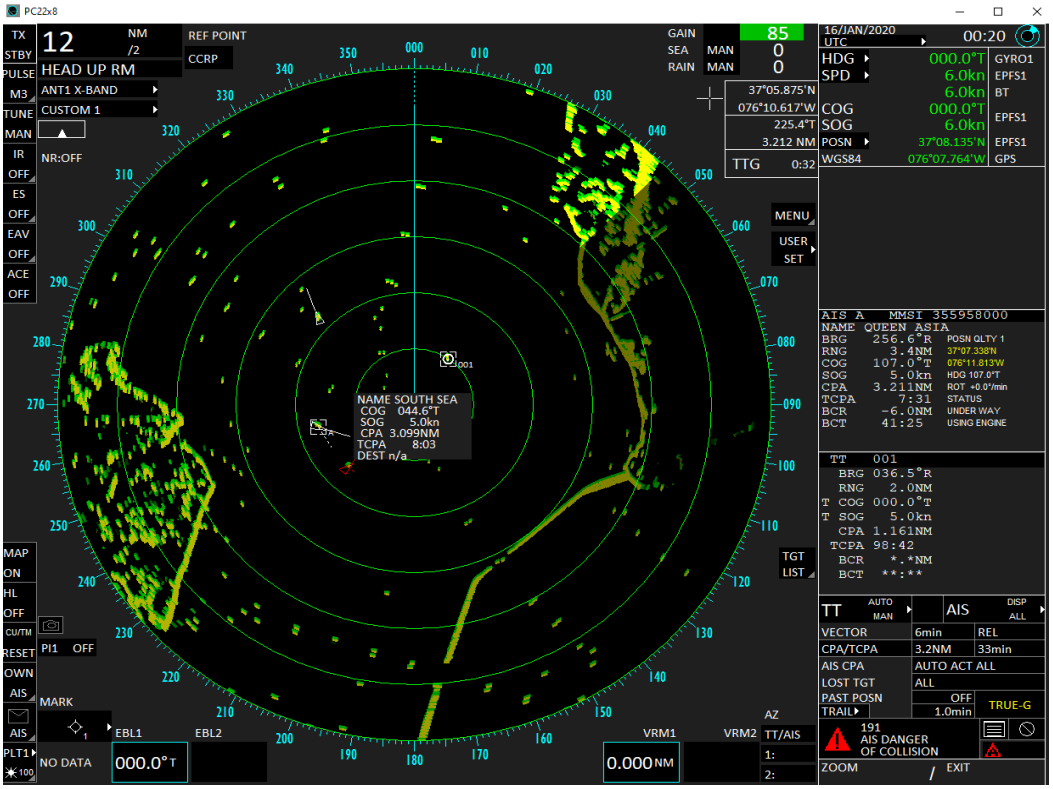
FAR 22x8 Emulator

Buffalo Computer Graphics

Buffalo Computer Graphics' newest radar emulation is PC22X8, based off of Furuno's FAR22x8 radar. PC22X8 joins a growing list of radar emulations that are offered by BCG and is compliant with international training standards for radar ARPA training. The PC22x8 user interface models the real FAR22x8 radar currently used by both military and commercial vessels as a surface search radar.

The operational features of the emulation include radar video controls, dual EBL & VRM, multiple presentation modes, graphics capabilities and range scaling. Our 3D radar imagery incorporates realistic simulation of landmass, moving targets, precipitation returns, sea clutter, and other effects seen on a real radar display. For ARPA support, PC22X8 provides target acquisition & tracking, leading vectors & history trails, trial maneuvers, and navigation marks.

PC22x8 was developed using BCG's standard radar simulation engine, is compatible with our Maritime Simulation Tool (MaST), and can be controlled by another simulation engine through a simple network interface. PC22x8 is available in a software only package ready for installation on a customer's PC, or BCG also offers "turn key" systems packaged in multiple configurations depending on your needs.

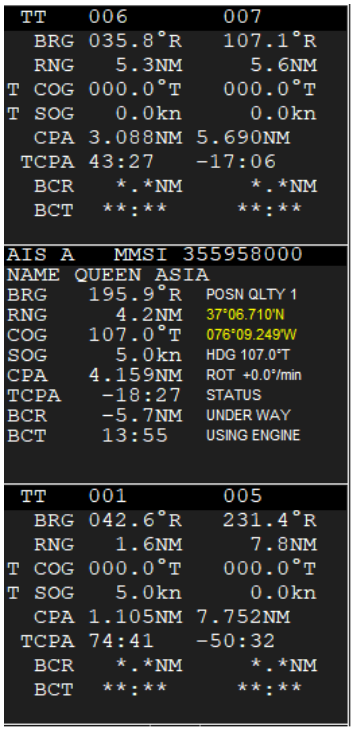


Features

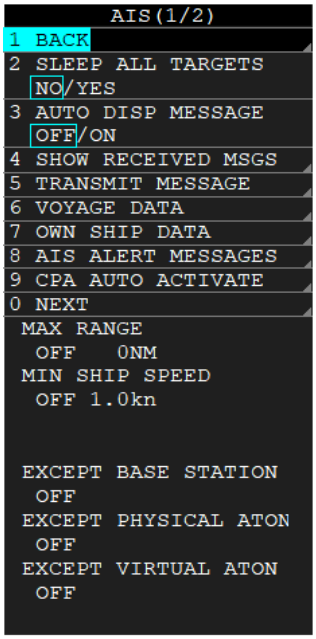
- Windows-based radar emulation software
- Simulates user interface of the Furuno FAR22x8 Radar
- Target Track Message Output for ECDIS integration
- User Interface operates from Trackball or Mouse or real Control Panel
- Target Tracking features including acquisition zones and guard zones
- Supports AIS Features
- Simulates ACE (Automatic Clutter Elimination)
- Instant popup window displaying information about track near cursor
- Can be configured for fast acquiring of targets

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PC22x8 SCREEN IMAGES



Target Information Panel



Example of Menu Panel

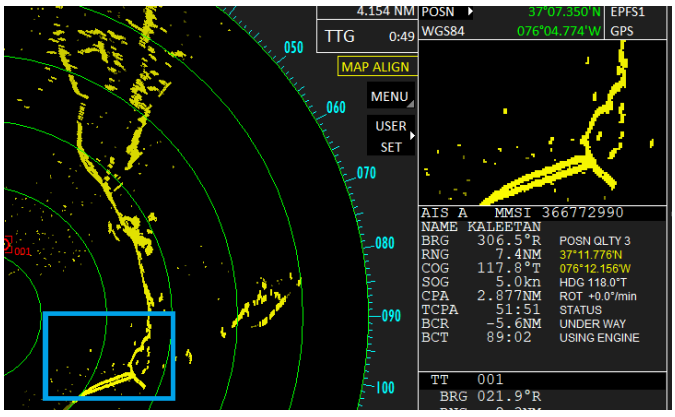
Actual Radar Attributes:

The PC22x8 supports the primary operating features and modes of the real radar display. These include:

STC, FTC, and Gain Control
Heads Up, Course Up, North Up Displays
Two Variable Range Markers (VRMs)
Two Electronic Bearing Lines (EBLs)
Target Acquisition and Tracking
Auto Acquisition and Guard Zones
Ownship and Target Data Windows
Radar Image Offset
System Alerts
Track Histories
True or Relative Vectors
Navigation Marks
Trial Maneuvers (Static or Dynamic)

PC Requirements:

Windows WIN10 or WIN11
Multi-core processor, >2GHz
8GB memory
500MB disk
100/1000 NIC
USB for Keyboard & Mouse



Zoom Display Panel magnifies the boxed area

Specific PC22x8 Features:

Instant Access buttons along left edge of window
Panel display of information for up to 6 tracks and/or 3 AIS targets
Parallel Index Lines
Interference Rejection, Echo Stretching, Echo Averaging, Wiper and ACE support.
Programmable Color Modes, including trail color
Zoom Function to magnify a section of radar display
AIS Navigation Symbols for ATON (real or virtual), SAR units, or Base Stations
AIS Text messages can be sent between instructor and student in both directions.
Menu Panel access for display control
Depth histogram and graphic wind data display

BCG also offers PC-based radar emulations for several other radars. All of our emulators provide the same level of radar fidelity as the PC22x8, as well as the full ARPA and AIS capabilities.

Contact BCG for information and pricing on our full line of Maritime Simulation products.