



What is a Raptor Display?

Most applications for displays require custom graphics, menus, and/or control capabilities. Writing custom display software in traditional programming languages like C, C++, or Java can amount to thousands of lines of code. Creating and debugging code in this manner can be time consuming, tedious, and labor intensive.



Raptor

Model-Based Development Tool

New Eagle’s line of Raptor-compatible displays and complimentary Raptor-Dev software offer an alternative approach to the traditional programming languages. These displays allow developers to leverage the graphical programming environment of MATLAB Simulink to quickly and easily create, edit, and debug display software. But what exactly is Raptor-Dev software and how does it allow developers to create software in Simulink for displays?



Raptor-Dev is a library of customizable Simulink blocks that allows developers to quickly create custom display software for Raptor-compatible displays.

Developers work directly in the Simulink environment with Raptor-Dev blocks, as well as native Simulink blocks and features. The Raptor-Dev library blocks include drawing functions (draw text, shapes, or display images), menu / button interaction definitions, pre-built gauges, and lots of other powerful tools that make display development easy and intuitive. Once a display application is ready for programming, code can be directly compiled from Simulink into an application file, which can then be loaded onto the Raptor-compatible display through a USB stick.

Raptor displays can be programmed not only to display information, but also to act as stand-alone controllers for even complex electro-mechanical systems. This is possible because Raptor display programmers can leverage all the native Simulink blocks and features to create any control logic necessary for their application. All Raptor displays are capable of interfacing with any CAN-based actuators or sensors. In addition, the Raptor VeeCAN 800 , VeeCAN 500, and VeeCAN 320 have several analog and frequency inputs and digital outputs, which make these displays an ideal all-in-one display/controller solution for a wide variety of applications.



A custom Raptor screen showing a battery meter, vehicle speed and engine speed

For more details, please contact our Sales Team at sales@neweagle.net

