

ActEv



Toolbox for HMI software development
and customization

BARCO

Visibly yours

Toolbox for HMI software development and customization

ActEv is Barco's easy-to-use software development tool that allows end-users to implement their desired functionality into the BARCO VECTOR® display system by assigning actions to events. This includes programming function buttons, building protocols for serial communication, defining menu structures and designing symbols, reticles and compasses. ActEv allows system integrators to generate customized software applications, fully tailored to their clients' needs, without the need for a large programming staff.

Flexible powerful solution

ActEv provides the power and flexibility of a programming language in a simple, easy-to-use development tool. The user-friendliness and numerous possibilities of the ActEv Toolbox allow customization that no longer compromises optimum performance and swift development.

ActEv allows you to:

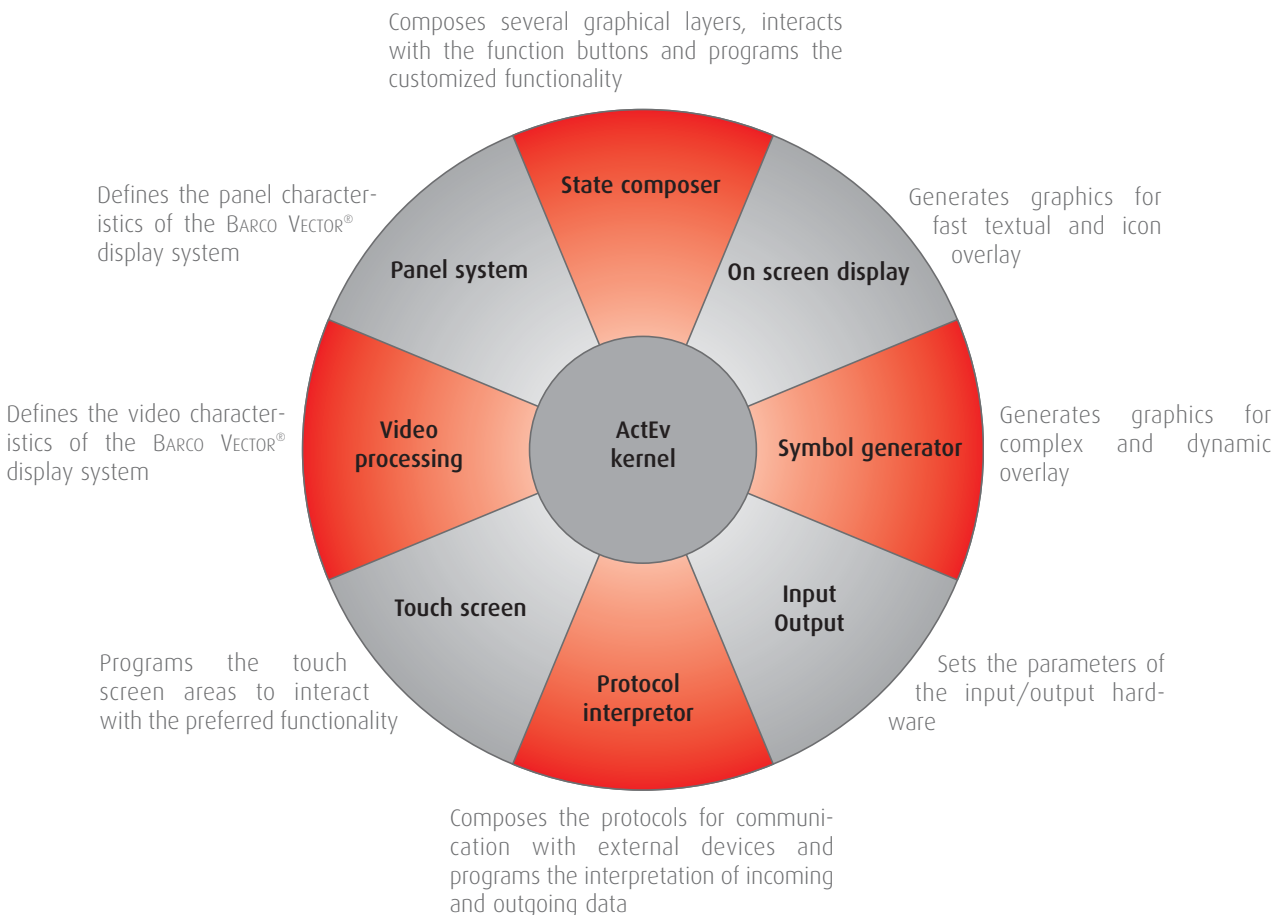
- Quickly create graphical user interfaces to interactively control your system
- Easily develop your communication protocol to interface directly with external devices through serial communication or CAN-Bus
- Handle all the data from both BIT and I/O in the context of the HMI

Why choose ActEv?

- Interactive and user-friendly
- Allows rapid development
- Enables early end-user involvement
- Allows re-use of screen layouts and libraries
- Provides an integrated help function
- Fully qualified and documented
- Synchronized to the evolutions of the BARCO VECTOR® hardware
- Allows for lower development and maintenance costs
- Offers extensive BIT (Built-in Test) capabilities

Modular architecture

The ActEv Toolbox consists of a kernel module to which several development components can be added. This results into a smart, modular development solution for a wide variety of applications.



ActEv functionality

The ActEv software development tool runs on a standalone PC and compiles project files to be uploaded to BARCO VECTOR® display systems. ActEv is easy to program and relies on graphical rather than textual language to activate the programming actions and events.

ActEv Toolbox based display applications are used in vehicle crew stations for driver's view enhancement, platform management, fire control and observation. More than 20 respected system integrators worldwide have opted for ActEv to program the desired functionality into the BARCO VECTOR® displays.

ActEv development environment



Acquisition



Processing



Visualization

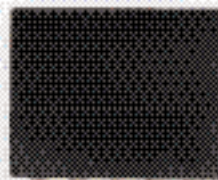
ActEv project file



ActEv runtime environment



VIDEO



DATA



Acquisition

- Acquisition of video signals
- Interpretation of data and commands

ActEv makes interfacing with any sensor hardware simple.

Processing

- Processing of video images
- Data control

ActEv has a spectrum of built-in functions for video and data processing, specifically designed to optimize the use of the BARCO VECTOR® display within any system.

Visualization

- Visualization of the HMI
- Interpretation of user inputs

ActEv provides graphical tools for data visualization and user interface design. The On-Screen Display and Symbol Generator functions generate text and symbols over the RGB or video background.

