

FlexiVision III



Advanced imaging platform

A single solution for:

- visual mixing
- display recording
- video streaming
- image processing



FlexiVision III is Barco's revolutionary, high-performance Electro-Optical (EO) sensor video processing system. It consists of a growing set of modular components that provide a variety of imaging functions. These building blocks create systems that process multiple sensor video inputs for situational awareness displays.

Building upon previous generations of products and utilizing leading edge technologies such as RapidI/O, Gigabit Ethernet, and JPEG2000, FlexiVision III enables advanced, real-time sensor video processing for military surveillance and reconnaissance applications. FlexiVision III implements functions such as sensor fusion, electronic image stabilization, video warping and video networking for battlespace intelligence and network-centric environments.

BARCO

Visibly yours

FLEXIVISION III processing functions

FLEXIVISION III consists of a single board solution that provides a multitude of functions, as illustrated below. These functions may be cascaded to perform further processing on a given input sensor video signal.

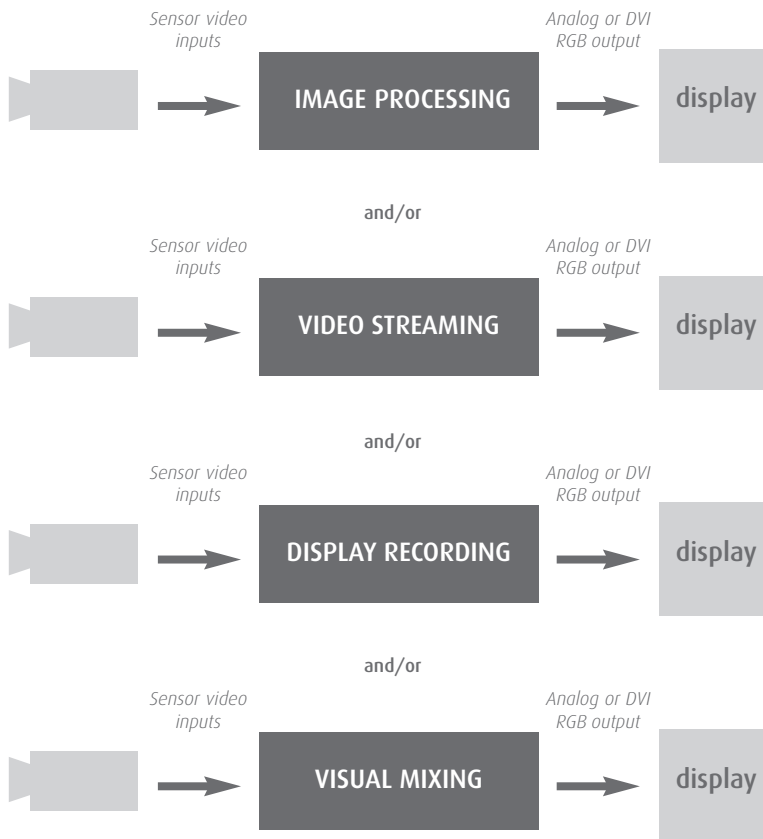


Image processing: Programmable video processing module enables functions such as image stabilization, warping and fusion

Video streaming: JPEG 2000 module provides low latency video streaming and lossless quality over Gigabit Ethernet

Display recording: JPEG 2000 module enables high quality video recording

Visual mixing: Universal frame grabber module enables image scaling, zooming, positioning and overlay/underlay capability





Features:

- Programmable video processor
- On board PowerPC™ with embedded OS and web server
- Web based control client
- Analog and digital video input and output
- Single slot solution providing 6 independent windows

Benefits:

- Barco programmable or customer programmable
- Host processor independent
- Simple user interface
- Standard sensor and display compatibility
- Cost effective



FlexiVision III PCI version



FlexiVision III VME version

Technical specifications

ENVIRONMENTAL

| Parameter | Conditions | Air-cooled | Conduction-cooled |
|---|---------------------------------|---|---|
| <i>Minimum/ Maximum Temperature</i> | Operational | 0°C min, 55°C max, with 1.25 m/s airflow | -40°C to 75°C at thermal interface |
| | Storage | -40°C to +105°C | -40°C to +105°C |
| <i>Altitude</i> | Operational | 20,000 feet | 20,000 feet |
| | Storage | 50,000 feet | 50,000 feet |
| <i>Humidity</i> | Operational | 10% - 90% RH non-condensing | 10% - 90% RH, including condensing for 240 hours |
| | Storage | 5% - 95% RH at +45°C | 5% - 95% RH at +45°C |
| <i>Shock</i> | Operational | 40g half-sine wave for 11 msec, all three axes | 40g half-sine wave for 11 msec, all three axes |
| <i>Vibration</i> | Operational | 5g for 1 hour/axis, all three axes | 5g for 1 hour/axis, all three axes |
| <i>EMI</i> | Operational | MIL-STD-461E FCC Class A CE compliant | MIL-STD-461E FCC Class A CE compliant |
| <i>Safety</i> | Operational/ Non-Operational | CE compliant | CE compliant |

I/O

Input video types

NTSC / PAL / SECAM composite or S-Video
 STANAG 3350 monochrome
 RS-170
 RS-343
 HDTV analog up to 1080i
 Single link DVI

Output video types

Up to RGB 1920 x 1200
 Single link DVI up to 1600 x 1200



In search of continuous improvement

D-P-FLE-1205

Technical specifications are subject to change without prior notice

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