



## Enhanced Output Card (EOC)

The EOC card provides an additional output that can be programmed to a different resolution from the Main/Preview outputs. The additional output is provided on the SD/HD/3G/BarcoLink and five-wire formats. The EOC card also enables the DVI inputs to be routed to the scaler channels. Finally, the EOC includes a memory card allowing the storage of up to 100 logo stills.

- Transitioning PiP or key on a transitioning background
- Native high resolution background channels independent of the PiP/key processing channel
- PiP Effects
  - PiP size from 1/8 to 8X source resolution
- PiP size from 1/8 to 8X source resolution
  - Adjustable PiP aspect ratio
- Adjustable PiP aspect ratio
  - PiP borders, including drop shadows and soft edge
- PiP borders, including drop shadows and soft edge
- Keying
  - Luminance key
- Luminance key
  - Split key (key alpha and fill)
- Split key (key alpha and fill)
  - Reverse key (key on background)
- Reverse key (key on background)
- Native high resolution downstream key channel independent of PiP/key processing channels
- Numerous mix and wipe effects
- Video processing
  - 10-bit processing
- 10-bit processing
  - 1:1 pixel sampling
- 1:1 pixel sampling
  - Motion adaptive de-interlacing (SD & HD)
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  - 3:2 and 2:2 pull down detect
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  - Image cropping
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  - Aspect ratio correction

- Aspect ratio correction
- Low video delay - less than 3 input fields
- Programmable matte
- Z-order control (priority layers) for overlapping PiPs or keys
- Mixer dynamically re-assignable as a mixing (transitioning) PiP or as two individual (split) non-transitioning PiPs or keys
- Capture and storage of two LOGO images for use as full-screen image or downstream key source
- Look-ahead preview
- Output synchronization: free-run or vertically locked to NTSC/PAL blackburst, CSync or HD tri-level sync
- Architecture supports future addition of optional output modules (for example, a recordable output)

**PRODUCT SPECIFICATIONS****SCREENPRO-II SERIES****Inputs****Scaled Channel Inputs**

- Analog inputs (8) - RGBHV/RGBS/RGsB computer video, YPbPr video (SD or HD), S-video or Composite video on 15-pin HD connector
- Sd and HDSDI input (2-optional) - per SMPTE 259M-C (NTSC/PAL resolution) SMPTE 292M (HDTV) on BNC connector

**Scaler Input Resolutions**

- 480i
- Computer Resolutions VGA (640 x 480) through UXGA (1600 x 1200)  
HDTV Resolutions up to 1920 x 1080 (720p, 1080i, 1080p)
- 2048 x 1080p (Digital Cinema format)
- Plasma Display Resolutions

**Un-Scaled Background/DSK Channel Inputs**

DVI Inputs (2) -Digital DVI per DDWG 1.0 on DVI-I connector

**Background/DSK Input Resolutions**

- Computer Resolutions VGA (640x480) through UXGA (1600 x 1200)
- HDTV Resolutions, progressive up to 1920 x 1080(1080p)
- 2048 x 1080p (Digital Cinema format)
- Plasma Display Resolutions

**Outputs****Digital Outputs**

Digital DVI per DDWG 1.0 on DVI-I connector (Program Output)

**Output Resolutions**

- Computer Resolutions SVGA (640x480) through UXGA (1600 x 1200)
- HDTV Resolutions, progressive up to 1920 x 1080(1080p)
- 2048 x 1080p (Digital Cinema format)
- Plasma Display Resolutions

**Analog Outputs**

RGBHV/RGBS/RGsB (non-interlaced only) on 15-pin HD connectors (preview and two program monitor/projector outputs)

**User control****Front Panel Control**

LCD touch screen display, keyboard circuitry, rotary encoders and LED lighted push buttons

**Remote control**

- The unit may be controlled from a computer or external controller via LAN or an RS-232 serial link. Control options include:
- source input configuration
  - output format selection
  - test pattern selection
  - Video source selection for PIPs or keys
  - transition effect selection and control

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Technical specifications are subject to change without prior notice. Please check [www.barco.com](http://www.barco.com) for the latest information.