

FSN Series Multi-format Production Switchers

The Fusion of Production Switching and Barco Image Processing Expertise



The FSN series is a new high-resolution, 3G ready production switcher that combines advanced video switching functionality with the power and flexibility of Barco image processing. By seamlessly integrating video and computer graphics formats, the FSN series provides a streamlined multi-format package that's modular, easy to operate, and easy on your budget.

Imagine the power —

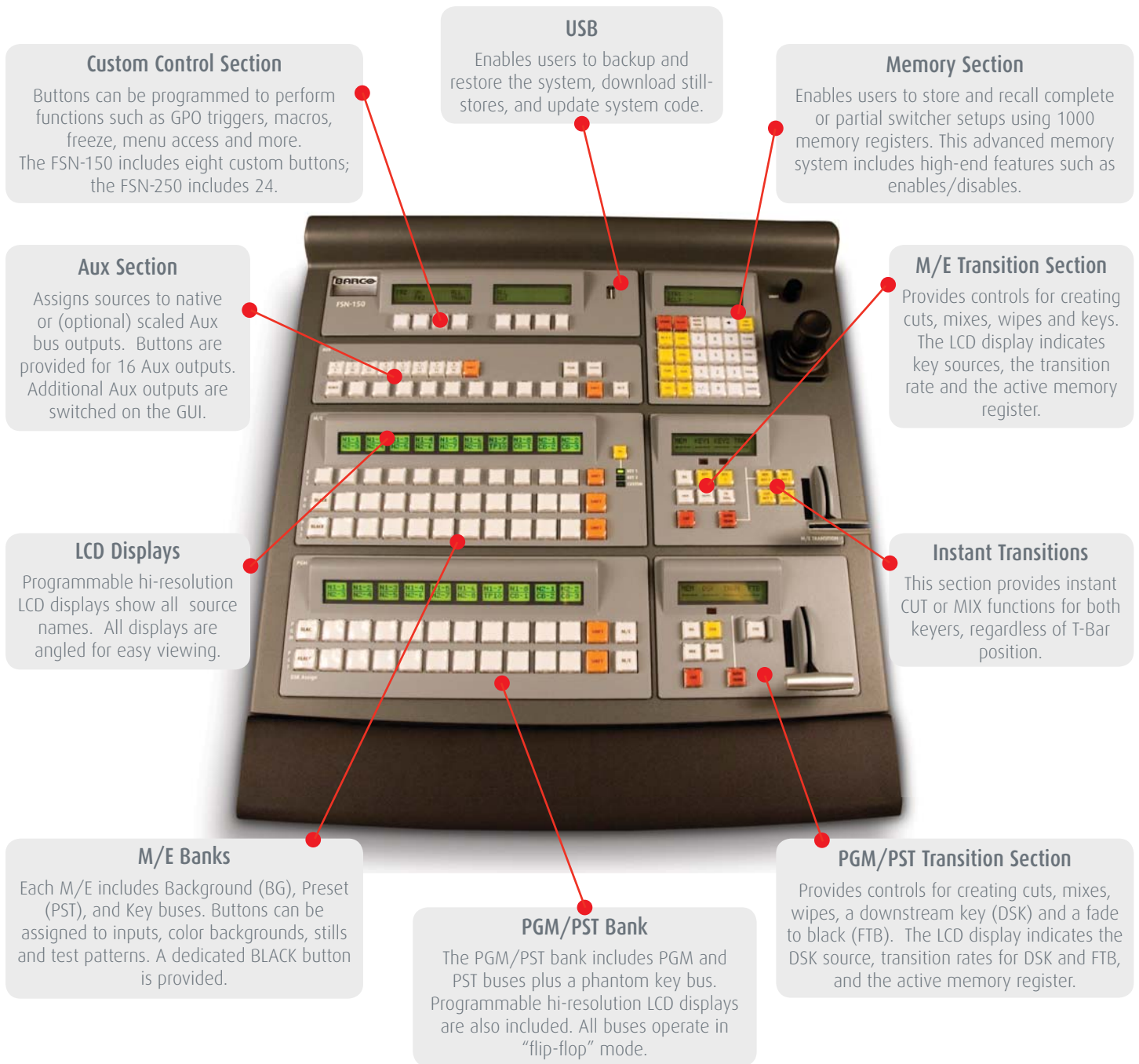
- Native HD or SD operation, cross-conversion, frame synchronization and selectable native output formats (480i, 576i, 720p, 1080i).
- Unprecedented input and output flexibility, using the power of Barco's Athena scalars. The system's architecture enables you to install up to five dual-channel universal input cards, and up to two dual-channel universal output cards. By seamlessly integrating analog, digital, and computer resolutions into your workflow, the FSN series places serious input and output power — at your fingertips.
- Internal storage of 100 still frames (with up to three frame buffers on line simultaneously), up to four channels of optional internal 2D DVEs, and integration with the Encore Presentation System.
- A minimum two lines of delay for native genlocked inputs.
- 3G ready

The FSN series delivers — with a highly configurable multi-format system that enables users to adapt to today's continuously demanding live production environment — at an extremely economical price point. As the industry's next generation switcher, the FSN series represents the perfect fusion of production switching, Athena scaling, and the roadworthiness you've come to expect from Barco.

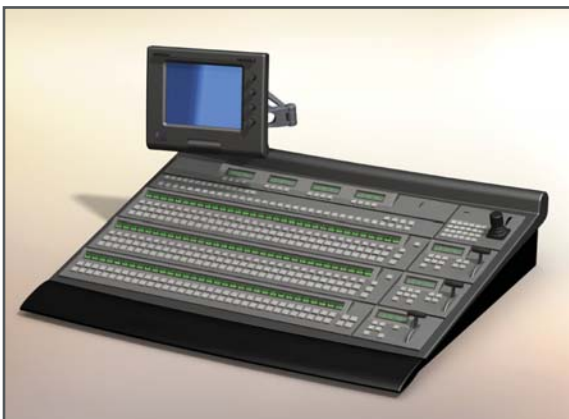
BARCO

Visibly yours

FSN-150



FSN-250



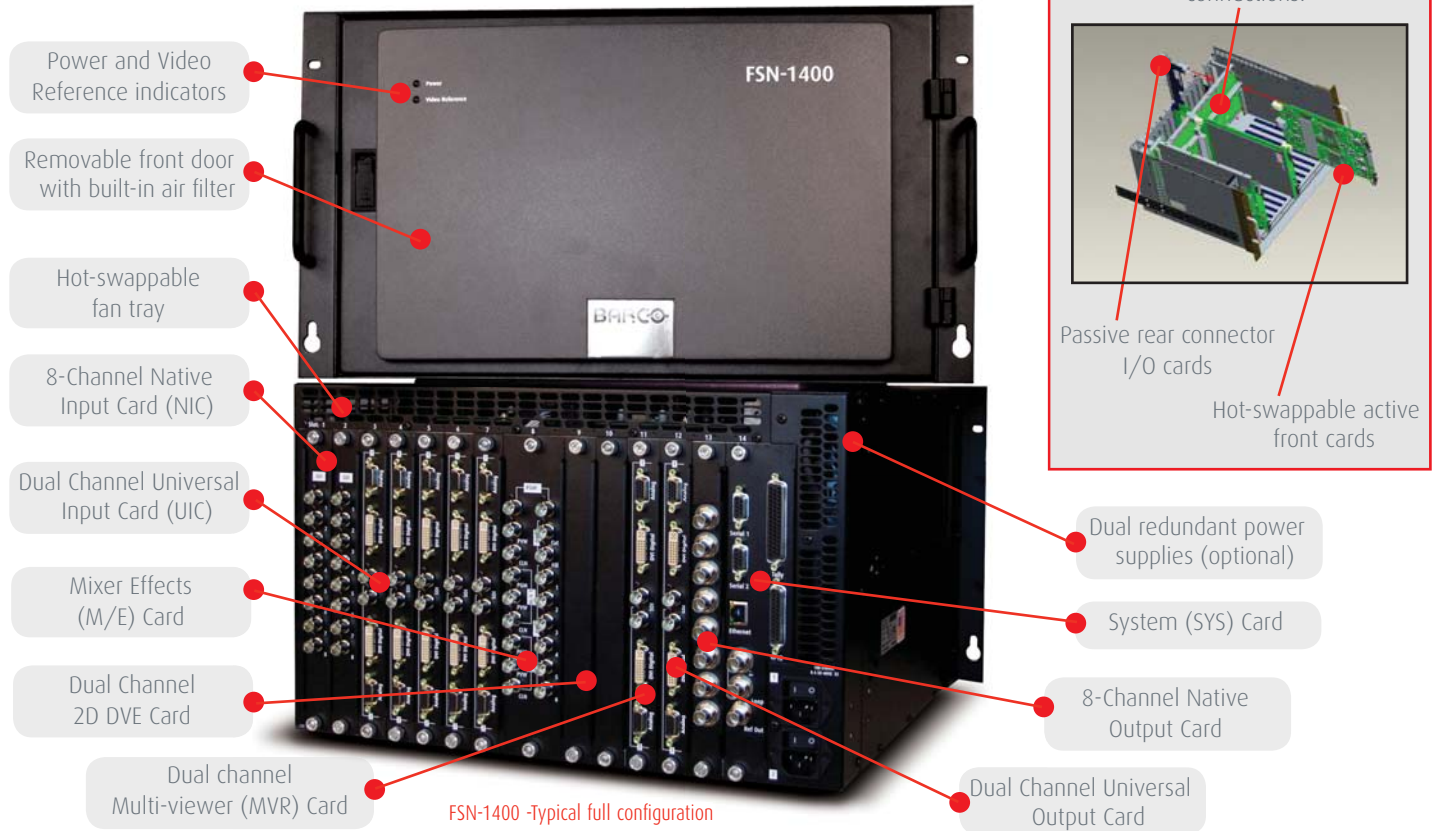
FSN-250 (Future Release)

In addition to the FSN-150 functions, the FSN-250 provides:

- An additional full M/E bank with 2 dedicated keyers
- 52 assignable crosspoints (26 buttons plus SHIFT)
- 16 Custom buttons
- Expanded Aux Output section with four programmable banks

FSN-1400 Video Processor

The power and flexibility of the FSN series is housed inside the FSN-1400 - a modular, field-configurable chassis that provides the video processing functions for both the FSN-150 and the FSN-250.



FSN-1400 -Typical full configuration

Fusion Power

Standard Cards — Within the FSN-1400 chassis, four standard cards provide the system's raw horsepower:

- One **Native Input Card (NIC)** provides eight native HD-SDI or SD-SDI inputs, plus frame synchronization and auto-timing.
- One dual-channel **Universal Input Card (UIC)** provides the power of two Barco Athena scalars. The card offers frame synchronization, auto-timing and seamless integration of analog, digital (DVI, SD-SDI, HD-SDI), and computer resolutions up to UXGA or 1920x1080.
- One **Mix Effects Card (M/E)** provides PGM, PVW and CLEAN outputs for each M/E. The card also provides native Aux outputs 1 through 6, plus dedicated DSK cut/fill inputs.
- One **System Card (SYS)** provides video reference connections, Ethernet and dual serial communications ports, a tally connector (24 tallies) and a GPIO connector (four input and eight output ports).

		FSN-1400 Slots													
		1	2	3	4	5	6	7	8	9	10	11	12	13	14
FSN-1400 cards	NIC	•	•	•	•										
	UIC			•	•	•	•								
	M/E							•							
	DVE									•	•				
	MVR											•			
	UOC												•	•	
	NAC												•	•	•
	SYS														•

• Provided with the Base system

Optional Cards — You can create a precise multi-format configuration for every event, using the flexibility of the system's powerful options:

- Install up to three additional **Native Input Card (NIC)**, for a maximum of 32 native inputs.
- Install up to four additional dual-channel **Universal Input Cards (UIC)**, each card providing the power of two Barco Athena scalars.
- Install up to two dual-channel **Universal Output Cards (UOC)** each card providing the power of two Barco Athena scalars, with selectable output resolutions up to UXGA, 1920x1080 and 2048x1080p (Future release).
- Install up to two dual-channel **2D Digital Video Effects Cards (DVE)**, enabling you to create up to four high-resolution PIPs (picture-in-picture effects) using Athena Scalars (Future release).
- Install one 16-channel **Multi-viewer card (MVR)** allowing you to monitor up to 16 sources or outputs on one or two monitors. All connections to the card are internal to the FSN-1400, simplifying setup and minimizing costs (Future release).
- Install up to three eight-channel **Native Aux Output Cards (NAC)**, enabling you to switch additional outputs (Future release).

Note: You can install only one Universal Output Card with a Multi-viewer Card.

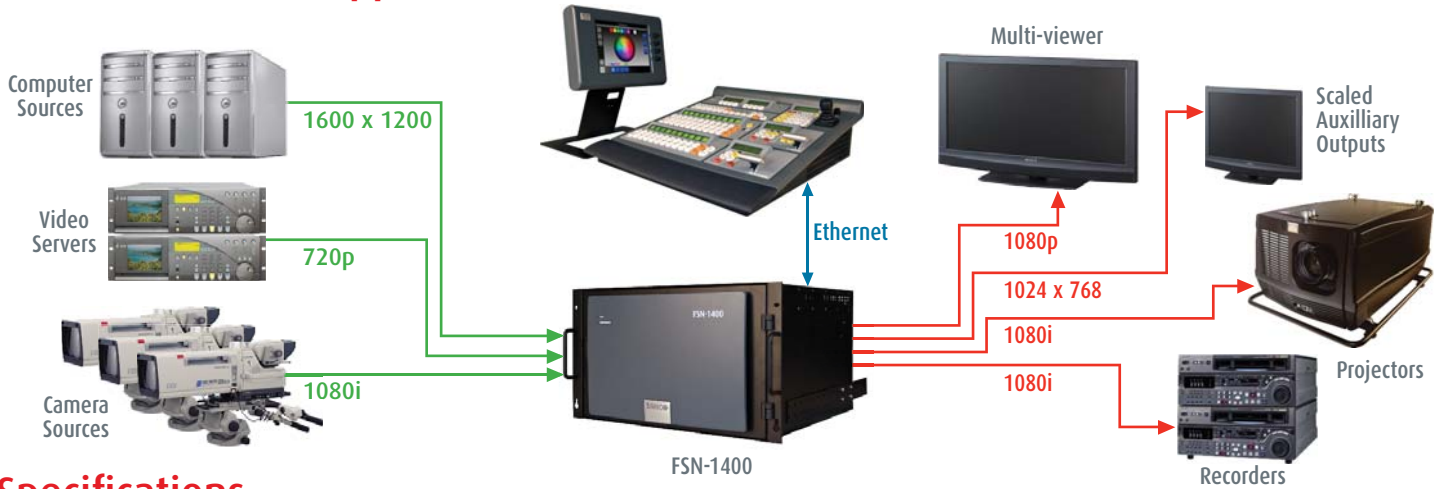
Graphical User Interface (GUI)

An essential part of the FSN's ease-of-use is the graphical menu system. The menus provide an intuitive, user-friendly environment that allows operators to efficiently set up the unit and perform quick modifications.

The entire display includes a high-resolution color touch screen that also includes four rotary knobs that allow users to easily modify switcher parameters.



FSN Multi-Format Application



Specifications

	TYPE	FORMAT
INPUTS	8 standard SD/HD SDI Inputs and up to 30 additional inputs with optional cards	SMPTE 424M, 292M, 259M-C
	2 standard universal Inputs (SD/HD, DVI, Analog) and up to 8 additional universal inputs with optional cards	SMPTE 424M, 292M, 259M-C DDWG 1.0 RGBHV/RGBS/RGSB, YPbPr video, S-video, Composite
	Dedicated Native Cut and Fill SD/HD SDI Inputs	SMPTE 424M, 292M, 259M-C
OUTPUTS	1.5ME: 7 SD/HD SDI Native outputs for Program/Preset/Clean 2.5ME: 13 SD/HD SDI Native outputs for Program/Preset/Clean	SMPTE 424M, 292M, 259M-C
	6 standard Native SD/HD SDI Aux Outputs and up to 8 additional native outputs with optional card	SMPTE 424M, 292M, 259M-C
	Up to 4 optional universal outputs (SD/HD, DVI, Analog)	SMPTE 424M, 292M, 259M-C DDWG 1.0 RGBHV/RGBS/RGSB, YPbPr video, S-video, Composite
	Multi-viewer: Up to 16 windows on one or two SD/HD, DVI, Analog outputs	SMPTE 424M, 292M, 259M-C DDWG 1.0 RGBHV/RGBS/RGSB, YPbPr video, S-video, Composite
CONTROL	Analog Ref Input/Loop/Output on a BNC connector	Bi-level and Blackburst at SD Tr-level at HD
	GPIO: 4 Inputs and 8 outputs on DB25	
	Tally Outputs: 24 contacts on DB50 up to 30VDC at 1 Amp	
	Ethernet communication between FSN150 and FSN1400	10/100Base-T

Resolutions

VGA (640x480) through UXGA (1600x1200), HDTV (720p, 1080i, 1080p), 2048x1080, Plasma Display Resolutions

Mechanical

FSN-1400	6RU: 19" W x 10.5" H x 20.75" D (max) (48.26cm W x 26.67cm H x 52.7cm D (max))	58 lbs (26.5 Kg)
FSN150	22" W x 7" H x 24" D (55.88cm W x 17.78cm H x 60.96cm D)	26 lbs (12 Kg)
Display	11.6" W x 9.7" H x 2.67" D max with knobs (29.46cm W x 24.64cm H x 6.78cm D with knobs)	5 lbs (2.5 Kg)
Stand	14" W x 13" H x 10" D (35.56cm W x 33.02cm H x 25.4cm D)	8 lbs (3.75 Kg)

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