

Application Note

FSN Series Multi-format Switcher: **PlusPAK** for Live Events



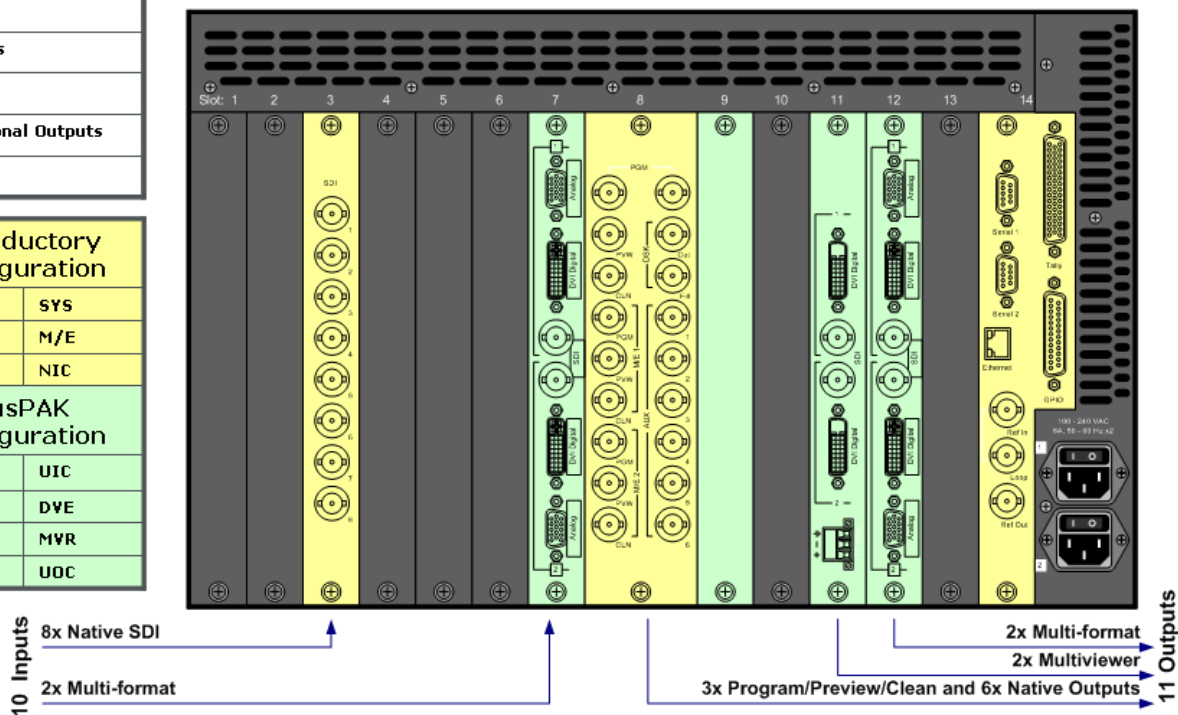
Due to its unique multi-format architecture, the FSN Series switcher offers users a high degree of integration in a single compact 6RU unit. By leveraging the system's modularity through a new suite of plug-in cards called **PlusPAK**, users can configure a self-contained "presentation" solution. **PlusPAK** not only eliminates the setup complexities inherent in competitive products, but it provides a superb platform for creativity.

What is **PlusPAK**?

PlusPAK is a new hardware and software suite designed *specifically* for the presentation needs of the events market. The suite includes one **UIC** (Universal Input Card), one **DVE** (Digital Video Effects) card, one **MVR** (Multiviewer) card, one **UOC** (Universal Output Card), and new multiple M/E software. By adding these tools to the FSN's introductory system that includes one **NIC** (Native Input Card), the FSN is transformed into a powerful 10 input, 11 output presentation switcher.

Events Configuration	
10 Inputs	
11 Outputs	
5 Keys	
3 Transitional Outputs	
2 PIPs	

Introductory Configuration	
1	SYS
1	M/E
1	NIC
PlusPAK Configuration	
1	UIC
1	DVE
1	MVR
1	UOC

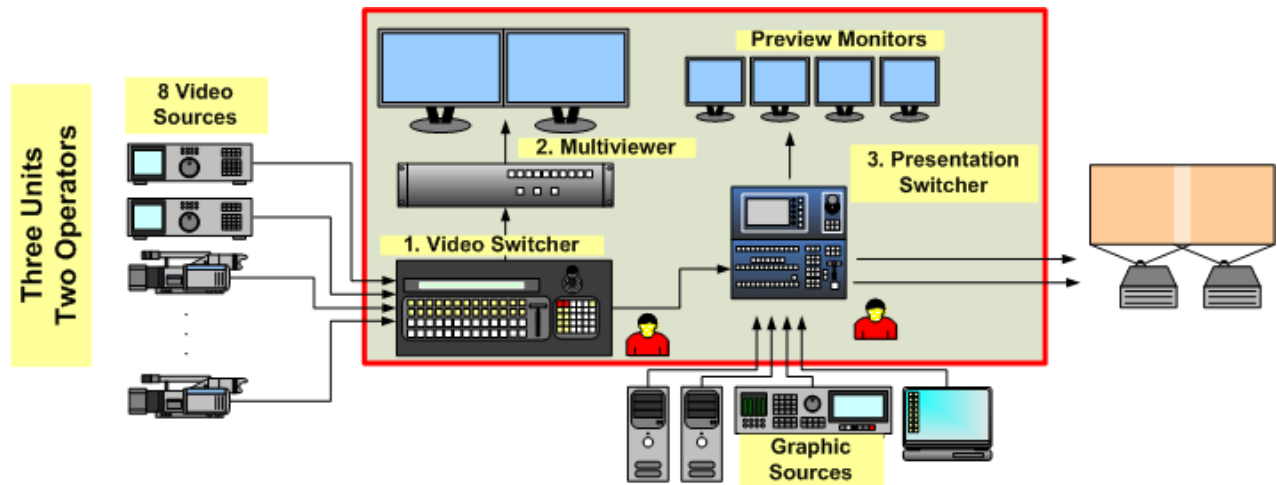


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The PlusPAK Advantage

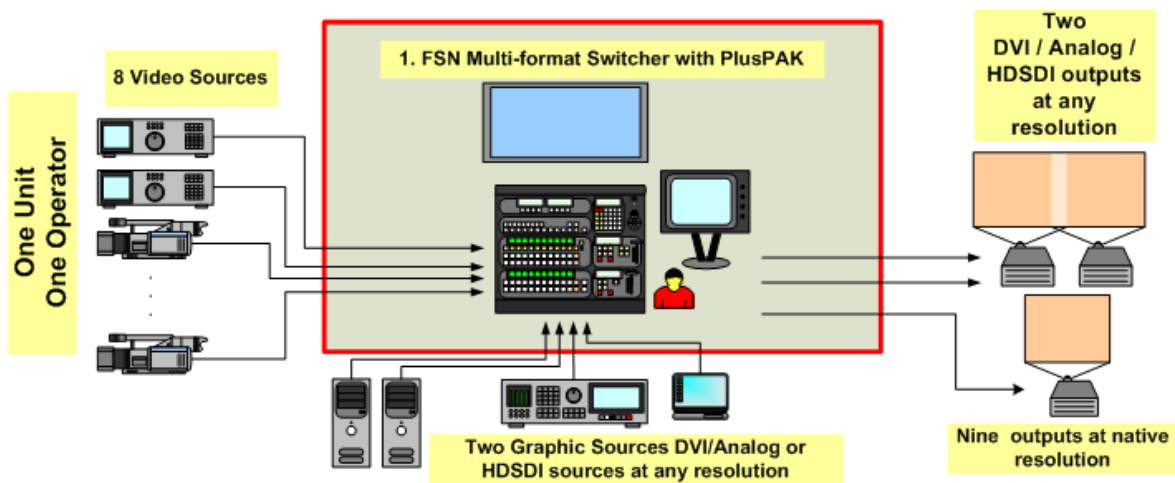
The two diagrams below illustrate the **PlusPAK** advantage, in terms of system simplicity in configuring a multi-format, dual output system with two projectors.

Traditional Video/Presentation Switcher Configuration



In the traditional configuration above, video sources connect to the “upstream” video switcher while various graphic sources connect to the presentation switcher. An external Multiviewer is used for the video switcher, but additional dedicated monitoring is required for the presentation switcher. To the user, this means more equipment, more wiring, additional setup time, and higher overall cost.

FSN Multi-format Switcher PlusPAK Configuration



Using the **PlusPAK** configuration shown above, all multi-format switching and monitoring requirements are integrated into a single unit. All sources connect *directly* to the FSN, rather than to separate units. The Multiviewer displays all required inputs and outputs, eliminating layers of setup complexity. Best of all, the FSN provides three independent transitioning SD/HD-SDI outputs, while the UOC simultaneously outputs to both projectors, at any desired resolution with or without overlap.