

PDS series

Easy-to-use digital switchers

“Barco’s PDS-902 works as an extremely capable, robust switching/signal processing solution in a 1RU space.”

Jeff Gooch, PLSN



Features

Processing

- Fast source acquisition
- Fast and seamless switching
- Auxiliary control from Encore and ScreenPRO-II controllers
- Up to three LOGO stores/recall capability
- Low video delay
- Software download via USB

Inputs

- All resolutions from NTSC/PAL up to WUXGA including all HD resolutions
- EDID support for analog and DVI sources
- DVI, analog, SDI 3G/HD/SD and BarcoLink
- HDCP 1.0 support for all DVI sources

Preview and program outputs

- All progressive resolutions from 480p up to WUXGA/HD
- DVI, analog, SDI 3G/HD/SD and BarcoLink
- Full screen outputs and PIPs
- Dual PIP mode
- 9x2 Matrix mode
- Zoom and Stretch fit modes
- Supports HDCP compliant displays
- Built-in test patterns
- Independent resolutions for program and preview outputs

Mechanical

- Auto ranging power supply
- Slim 1 RU height
- Width: 19" rack

The PDS series of switchers is designed to meet today's requirements for a high-quality, easy-to-use and fast seamless switcher with more digital inputs at an affordable price.

Four models

The PDS is offered in four models: PDS-701 3G, PDS-901 3G, PDS-902 and PDS-902 3G. All 3G models feature four DVI-I inputs with full HDCP 1.0 support, whereas the PDS-701 3G features two DVI-I inputs. All models include one 3G/HD/SD SDI and four universal analog inputs. All analog and DVI inputs support the EDID 1.3 specification. Users can capture and store up to three images that can be used as a LOGO source during the presentation. Built-in test patterns are also provided.

All models provide simultaneous program output via the DVI and analog connectors. The PDS-901 3G and PDS-902 3G models also include an SDI output supporting SD/HD/3G rates and BarcoLink for easy connection to your Barco projectors. In addition to the program output, the PDS-902 and PDS-902 3G offer a preview output that can be set at the same or different resolution than the program output. Users have the option of displaying one of three signals on the preview output: program, preview or test pattern.

Simple setup

Thanks to its straightforward setup and operation the PDS is a perfect fit for live events, boardrooms, hotel ballrooms, houses of worship, education and training facilities and fixed installations.

ITEM	ORDER NUMBER	INPUTS			OUTPUTS				
		VGA	DVI	SDI	PROGRAM			PREVIEW	
					DVI	VGA	SDI	DVI	VGA
PDS-701 3G	R9004692	4	2	1	1	1	1	-	-
PDS-902	R9004688	4	4	1	1	1	-	1	1
PDS-901 3G (BTO)	R9004693	4	4	1	1	1	1	-	-
PDS-902 3G	R9004694	4	4	1	1	1	1	1	1

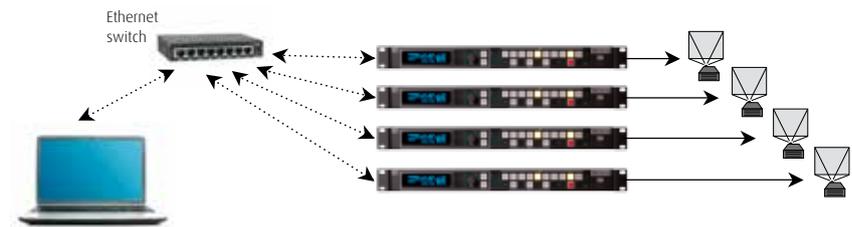
BARCO

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Remote control

An integrated web page server provides remote control and switching capabilities. Multiple units on the same network can be controlled via the web browser, without installing a separate control application.

After discovery and setup, one or more units can be enabled to accept source changes or transitions.



Software management

System firmware can be updated via the web browser, the front panel USB port or, via the Internet. When connected to the Internet, the PDS can check for the latest software release.

If necessary, it will download and upgrade its firmware automatically, keeping your unit's functionality up to date.

Level A to/from level B SDI conversion and minimum delay mode

PDS converts level A SDI signals to level B and vice versa allowing cameras and monitors that support only these formats to be connected to other devices. In both applications the latency can be reduced by three lines

by enabling the minimum delay mode. In minimum delay mode, internal scaling is disabled and the output resolution matches the input resolution.

Dual PIP display mode

In this mode the program output displays two PIPs (Picture-in-Picture) that can be positioned anywhere on the screen. Any of the input sources or stored LOGOs can be selected to display on PIP1 or PIP2. The background can be a solid matte color or one of the stored LOGO images. Alternatively, PIP2 can be set to cover the whole display area, therefore, becoming a

live background behind PIP1. An example for this feature would be a presentation and an excel spreadsheet displayed side-by-side, the same presentation in two different languages displayed side-by-side, or a presentation full screen with a PIP covering part of the image.



Matrix mode

In the matrix mode the program and preview outputs operate independently allowing any of the input sources to go directly to either output. In case that the projectors connected to the PDS are of different native resolutions, the two outputs can be set independently to match each projector's native resolution.

Lastly, the matrix mode feature allows the PDS to be combined with the Barco Collaborate projectors. Each side of the projector can be driven independently from any of the nine sources connected to the PDS.



Easy-fit mode

Easy-fit allows the user to customize the output format in case the input source aspect ratio doesn't match the output display's aspect ratio. The user can choose from three different modes:



Normal

- Input aspect ratio is preserved and no content is lost
- Background can be selected to be a solid color or LOGO



Zoom

- Image is zoomed horizontally and vertically until it covers the whole display
- Input aspect ratio is preserved, but some content is lost
- No background is shown



Stretch

- Image is stretched either horizontally or vertically until it covers the whole display region
- Input aspect ratio is not preserved, but no content is lost

Technical specifications

VIDEO INPUTS	
DVI-I	<ul style="list-style-type: none"> • Digital formats: all single-link DVI digital formats up to 165 Mhz, per DVI 1.0 specification • Analog formats: NTSC/PAL composite and Y/C video, SD YPbPr with bi-level sync, HD YPbPr with tri-level sync, RGBHV/RGBS/RGsB computer video with bi-level sync • Analog 1:1 sampling up to 1920x1080@60 Hz. Sources with native pixel rates greater than 150 MHz will be filtered and sampled at 150 Mhz. These include but not limited to 1920x1080p@60 (173.0 MHz), 1920x1200@60 (193.25 MHz) and 2048x1080p@60 (183.75 MHz) • EDID version 1.3 compatible - HDCP version 1.0 compatible
HD-15 VGA	<ul style="list-style-type: none"> • Format: NTSC/PAL composite and Y/C video SD YPbPr with bi-level sync HD YPbPr with tri-level sync per SMPTE 274, RGBHV/RGBS/RGsB computer video with bi-level sync • Analog 1:1 sampling up to 1920x1080@60 Hz. Sources with native pixel rates greater than 150 MHz will be filtered and sampled at 150 Mhz. These include but not limited to 1920x1080p@60 (173.0 MHz), 1920x1200@60 (193.25 MHz) and 2048x1080p@60 (183.75 MHz) • EDID version 1.3 compatible
SD/HD/3G SDI on BNC	<ul style="list-style-type: none"> • Formats: SD-SDI per SMPTE 259M-C (NTSC/PAL resolution); HD-SDI per SMPTE 292M, 296M; 3G-SDI per SMPTE 424M; BarcoLink
VIDEO OUTPUTS	
DVI-I	<ul style="list-style-type: none"> • Formats: All single-link DVI digital formats up to 165 Mhz, per DVI 1.0 specification • EDID version 1.3 compatible - HDCP version 1.0 compatible
HD-15 VGA	<ul style="list-style-type: none"> • Formats: HD YPbPr with tri-level sync per SMPTE 274, RGBHV/RGBS/RGsB computer video with bi-level sync • EDID version 1.3 compatible
SD/HD/3G SDI on BNC	<ul style="list-style-type: none"> • Formats: SD-SDI per SMPTE 259M-C (NTSC/PAL resolution); HD-SDI per SMPTE 292M, 296M; 3G-SDI per SMPTE 424M; BarcoLink
OTHER	
Control	<ul style="list-style-type: none"> • Ethernet RJ-45, 10/100 Mbps autosense • Computer, tablet, smartphone, or Encore or ScreenPRO-II controller via Ethernet link
Height	1.75 inches (4.4 cm) - 1 RU rackmount
Width	17 inches (43.2 cm) without chassis handles, 19.06 inches (48.4cm) with chassis handles attached
Depth	14.25 inches (5.6 cm) from front to rear panel
Weight	12.5 lbs (5.67 kg)
Input power	100-240 VAC, 47-63 Hz, auto-selecting 2.0A maximum
Environmental	Humidity: 0-95% non-condensing
Temperature	0-40° C
Warranty	Full three-year parts and labor warranty