

Broadcast specification SDI/analogue switcher

A fully-featured low cost SDI/analogue switcher available in three versions:

Callisto-P: Portable 6-input self-contained with universal power supply

Callisto-R: Rack-mount 8-input with Callisto-C RS-422 linked remote panel

Callisto-F: Rack-mount 8-input with integral front panel control



- Full specification 270Mbit SDI video switcher; 10-bit digital precision throughout
- Simultaneous programme and preview SDI and analogue composite outputs
- Single-layer DSK/chroma keyer with key/fill inputs and programme clean feed
- Auto/manual dissolves and wipes with auto fade to black
- Dual framestore synchronisers; genlock SPG
- “Hot-Cut” live programme bus cut feature
- Industry-standard editor and automation protocol
- Full embedded audio & VBI processing option
- GPI and RS422 remote ports; source ident
- Analogue composite inputs option

The Callisto SDI/analogue switcher range

Callisto is a broadcast specification (SMPTE-259M) 270 Mbit video switcher with DSK and optional chroma keyer designed for studio, edit suite and transmission applications. Callisto can handle fully asynchronous (unlocked) inputs in a mixed signal format (SDI and analogue) environment.

The programme and preview outputs are available as both SDI and analogue composite with 10-bit processing throughout. There are two SDI auxiliary switched outputs for monitoring and routing, and switchers fitted with the composite input option also have a separate composite monitoring output. The incoming sources can be asynchronous as Callisto features dual channel framestore synchronisers. The switcher will operate in stand-alone mode, or may be genlocked to an external reference. A line store (minimum delay) mode is also available via the set-up menu.

Operationally, Callisto works in conventional programme/preview bus mode. Installed functions include manual and auto wipe (multiple patterns with normal/reverse, colour border and soft edge), manual and auto dissolve, and auto fade to black. A new feature is the Hot-Cut function, which allows the operator to make cuts directly on the programme bus without the freeze-frame commonly associated with asynchronous switchers. Callisto is dual standard 525/625 and offers 4:3 or 16:9 (letterbox) blanking. In conjunction with the Callisto-C control panel, the extensive menus allow the user to tailor the operational modes to suit individual requirements. An internal TSG provides EBU bars and other test signals, and source ident can be inserted.

Callisto also features a DSK with fully synchronising SDI inputs for external 'Key' and 'Fill' and a "clean feed" (pre-DSK) programme output. A chroma keyer is also available as an option. Optional analogue composite decoders allow signal acquisition in mixed format environments (SDI digital and analogue) without compromising any of the unit's other features. This allows the switcher to be used efficiently in today's transitional environment while retaining the necessary specifications and features for the all-digital world of tomorrow. The shift function allows the user to switch formats on any input channel between transitions. Callisto can be controlled via industry standard editor protocols GVG-100 and GVG-M2100, and has a full complement of assignable (take/ftb/source select) GPI functions and GPI high-current output drivers.

Callisto-R: technical specifications

Rack-mount 8-input with Callisto-C RS-422 linked remote panel

Callisto-R Specifications

| | |
|---------------------------|--|
| Inputs | <ul style="list-style-type: none">• SDI component x 8• SDI DSK key/fill• Optional analogue composite x 6 or x 8• Genlock composite loop-through <i>(N.B. DSK SDI inputs can also be configured as analogue programme inputs 7 and 8)</i> |
| Outputs | <ul style="list-style-type: none">• Programme SDI and composite• Preview SDI/Clean feed and composite• Separately switched Auxiliary SDI input monitoring x 2• Composite source monitoring• Adjustable (± 127 lines) composite sync |
| Dimensions | 1RU x 484mm (19") wide x 250mm (10") deep (Callisto-C control panel - 300mm (11.8") wide x 160mm (6.3") deep x 65mm (2.5") high at rear) |
| Power requirements | 100-263 V a.c. 30W (Callisto-C: Powered from Callisto-R mainframe) |



Rear of Callisto-R rackmount unit and Callisto-C remote control unit

Callisto-P: technical specifications

Portable 6-input self-contained with universal power supply

Callisto-P Specifications

- Inputs**
- SDI component x 6 including SDI DSK key/fill
 - Analogue composite x 6 (or 4 + 2 x Y/C)
 - Genlock composite loop-through

- Outputs**
- Programme SDI and composite
 - Preview SDI/Clean feed and composite
 - Programme Y/C
 - Separately switched Auxiliary SDI input monitoring x 2
 - Composite source monitoring
 - Adjustable (± 127 lines) composite sync

Dimensions 300mm (11.8") wide x 160mm (6.3") deep x 72mm (2.8") high at rear

Power requirements Callisto-P: 10-14V @ 22W (universal power supply included)



Callisto-P control panel



Rear of Callisto-P

Callisto-F: technical specifications

Rack-mount 8-input with integral front panel control

Callisto-F Specifications

- Inputs**
- SDI component x 8
 - SDI DSK key/fill
 - Optional analogue composite x 6 or x 8
 - Genlock composite loop-through
- (N.B. DSK SDI inputs can also be configured as analogue programme inputs 7 and 8)*

- Outputs**
- Programme SDI and composite
 - Preview SDI/Clean feed and composite
 - Separately switched Auxiliary SDI input monitoring x 2
 - Composite source monitoring
 - Adjustable (± 127 lines) composite sync

Dimensions RU x 484mm (19") wide x 250mm (10") deep

Power requirements 100-263 V a.c. 30W



Front of Callisto-F rackmount unit



Rear of Callisto-F rackmount unit

Brick House Video

tel: +44 (0) 1962 777733
fax: +44 (0) 870 383 5134
sales@brickhousevideo.com
www.brickhousevideo.com

Brick House Video Ltd.
Hill View Farm
Hensting Lane
Owslebury
Hampshire
SO21 1LE
UK