

XVP-1801-UC



HD upconverter/frame sync/ARC

The Densité Series XVP-1801-UC provides high quality upconversion and frame synchronization. It offers many advanced features, including AFD support and background keying, with 16 channel embedded audio processing. The superior conversion quality of the XVP at both 50 and 59.94Hz stems from multiple technologies, including advanced motion adaptive de-interlacing and anti-ringing.

To ensure that upconverted television is presented in the correct aspect ratio when aired, the XVP module supports AFD (Active Format Description) SMPTE-2016. This provides automatic aspect ratio control using embedded control commands, and this prevents on-air aspect ratio errors such as the postage stamp effect. The ARC function offers fixed presets as well as variable user configurable aspect ratios. In addition to AFD, the XVP also supports VLI (Video line index) RP-186 and WSS, which allows the card to adjust its ARC automatically without any external intervention. The module re-inserts the correct AFD, VLI or WSS on the output, along with other HANC and VANC information. With the integration of a frame sync, incoming feed signals can be synched to house, and video/audio levels adjusted using a proc and color correction, when entering the facility.

An RS-232/422 port is provided for automation control of ARC presets, and GPIs are also available for user presets.

To further improve on-air presentation, the XVP offers a background keying capability which allows side panels, introduced by upconversion, to be filled with video or graphics.

The XVP-1801-UC will pass and delay automatically all 16 channels (4 groups) of embedded audio to keep lip-synch. Full audio processing, shuffling, downmixing and 4 AES in and 4 AES out channels, are available as an option. A higher level of audio capabilities are provided by a range of audio processor companion cards. When connected to a DAP-1781, UAP-1783 or an AAP-1741, the XVP-1801 gains additional AES or Analog audio channels while still maintaining lip-synch. Depending on the audio processor selected, these boards also offer Dolby E or Dolby Digital (AC-3) for encoding or decoding, upmixing from 2.0 to 5.1, and full dynamic processing (limiter, compressor, and expander).

The XVP-1801-UC can be upgraded in the field to the full XVP-1801 up/down/cross converter specification if extra capabilities are required, and this strengthens the hardware investment and simplifies spares requirements.

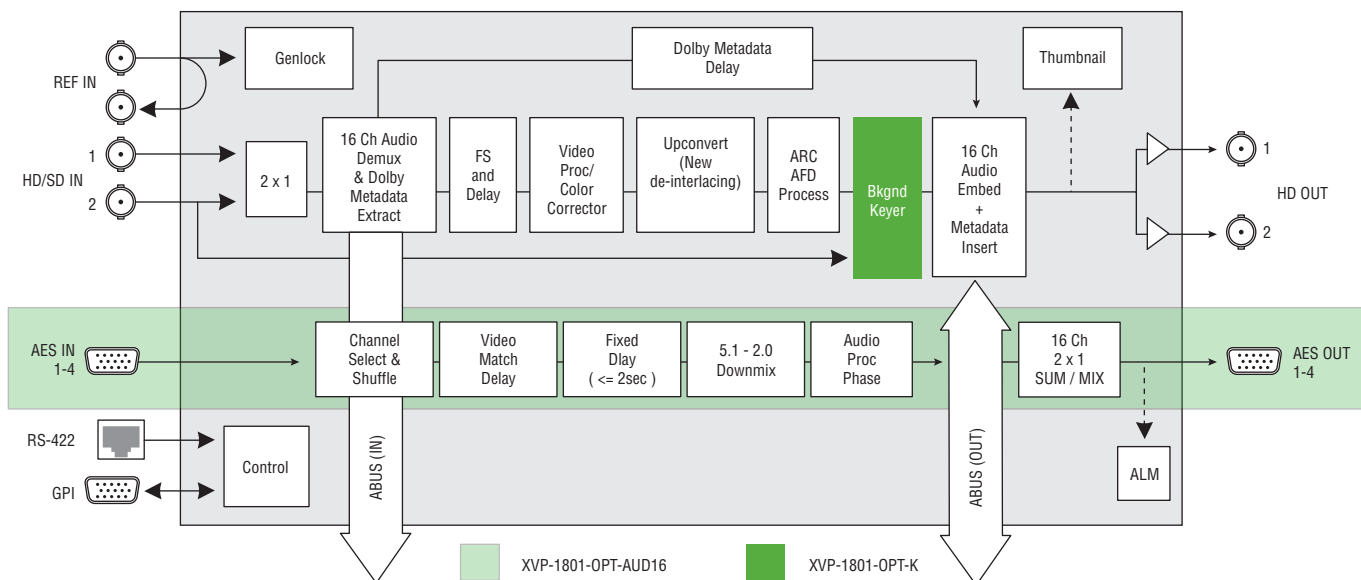
KEY FEATURES AND BENEFITS

- > Upconverter with frame sync
- > Advanced adaptive video de-interlacing for higher image quality
- > Automatic detection of film sequences
- > MPEG pre-processor mode
- > Automatic ARC, using AFD (SMPTE-2016), video index (RP-186) and WSS
- > Custom and fixed ARC presets
- > Background keying during upconversion to fill side panels or top and bottom panels
- > Built-in proc amp, color correction and legalizer
- > Processes and converts Ancillary data such as CC (608/708) and Time Code
- > Up to 16 channels of embedded audio processing, including advanced functions like audio downmix: 5.1 to Lt/Rt or Lo/Ro
- > 4 AES (8 channels) inputs and 4 AES outputs
- > Dolby E compatible and Metadata insertion
- > Perfect audio/video synchronization plus additional audio fixed delay of up to 2 seconds
- > Compatible with Miranda audio processing cards, including the UAP-1783, AAP-174 and DAP-1781
- > Multiple presets for save & recall
- > RS-422 Protocol and GPI ports for automation or external device control
- > Thumbnail and ALM streaming over IP
- > Can be upgraded in the field to the full XVP-1801 up/down/cross converter specification

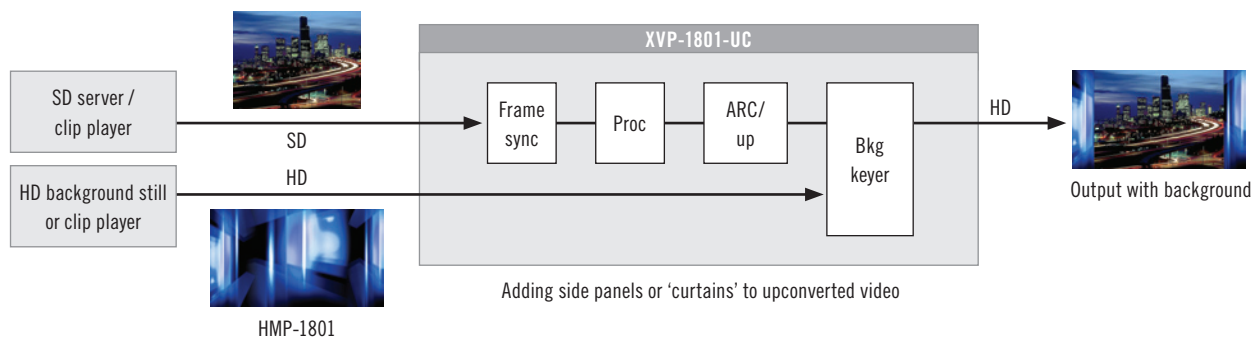
XVP-1801-UC

| Input \ Output | | HD | | | |
|----------------|------------|--------|-----------|---------|------------|
| | | 720p50 | 720p59.94 | 1080i50 | 1080i59.94 |
| SD | 525 | | X | | X |
| | 625 | X | | X | |
| HD | 720p50 | X | | | |
| | 720p59.94 | | X | | |
| | 1080i50 | | | X | |
| | 1080i59.94 | | | | X |

Video formats supported.



XVP-1801-UC HD Upconverter



TECHNICAL SPECIFICATIONS

Refer to XVP-1801 full version to see technical specifications and rear modules (see pages 99, 100).



ORDERING INFORMATION

Densité 2 frame

| | |
|------------------|---|
| XVP-1801-UC | HD/SD Up Converter/Frame Sync/ARC |
| XVP-1801-75-QRP | Quadruple rear connector panel, 75 ohm |
| XVP-1801-110-QRP | Quadruple rear connector panel, 110 ohm |

Densité 3 frame

| | |
|-------------------|---|
| XVP-1801-UC-3RU | HD/SD Up Converter/Frame Sync/ARC (including 3RU adaptor) |
| XVP-1801-75-3DRP | Double rear connector panel, 75 ohm |
| XVP-1801-110-3DRP | Double rear connector panel, 110 ohm |

Options (software)

| | |
|--------------------|---|
| XVP-1801-OPT-AUD16 | AES IO support and 16 channels on-board audio processing option |
| XVP-1801-OPT-K | Background key input option |
| XVP-1801-UG-UC2XVP | Upgrade from XVP-1801-UC to full XVP |

Options (hardware)

| | |
|-----------------|-------------------------------------|
| BOC-DE15-4BNC-1 | 75 ohm digital audio breakout cable |
| NSH15M | HD-15 to terminal block adapter |

Related products

| | |
|----------|---------------------------------|
| AAP-1741 | 4 ch. analog audio processor |
| UAP-1783 | 8 ch. universal audio processor |
| DAP-1781 | 8 ch. digital audio processor |

Remote control

iControl, iControl Solo, RCP-200