



The UBox is a high quality HDTV upconverter that converts serial digital video (525 or 625) to digital television 480p, 720p and 1080 standards. The UBox has an extensive list of standard features including complete aspect ratio controls, advanced image enhancement filters and a film mode for improved upconversion of film sourced video.

The UBox features powerful aspect ratio controls for full 4:3 to 16:9 support. The controls include anamorphic stretch, separate horizontal and vertical controls for black bars as well as zoom, and smooth pan/scan controls. You can create your own aspect ratio presets or use the factory presets.

The UBox's unmatched image quality is achieved via proprietary conversion technology that evaluates the video source characteristics and selects the appropriate filter and conversion algorithms. Separate video modules perform each major signal processing function. This permits simple upgrades to incorporate any future HDTV standards.

Wide DTV format support including 480p, 720p, 1035i, 1080i and 1080p

Complete aspect ratio controls

Touch screen display

Field, frame, and 3:2 conversion modes

Film mode with 3:2 and 24fps capability

Modular design for future upgrades

Advanced proprietary digital filters

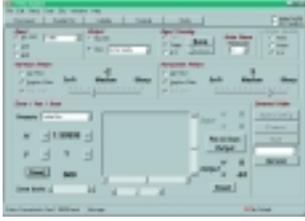
10 bit video path and 12 bit processing

Features

- ◆ Smooth pan/scan with variable speed control
- ◆ Zoom control up to 1600%
- ◆ Filters for anti-alias, flicker, Moiré removal
- ◆ Separate horizontal and vertical filters
- ◆ 15 levels of vertical and horizontal filters
- ◆ Unlimited user-defined presets
- ◆ Off-speed PAL (625/24fps) input
- ◆ Control software for remote operation
- ◆ Internal test patterns
- ◆ Internal tri-level sync output
- ◆ Genlock to composite sync
- ◆ Black matte generator
- ◆ Optional redundant power supply
- ◆ Optional audio delay
- ◆ Optional time code delay and 3:2 tracking



Remote Software



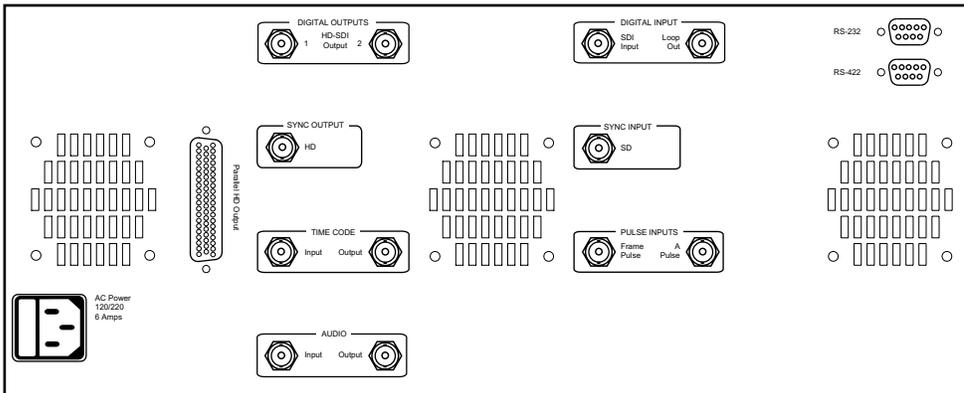
The remote control software provides control for all the functions of the UBox from a Windows 2000, 9x or NT computer. All frequently used functions are displayed on the main screen. The software also includes factory presets for popular aspect ratio settings. The UBox can also be operated via its front panel touch screen display.

Film Mode

The UBox can further improve the quality of the upconversion if the video source was originally transferred from film. If the source contains a 3:2 sequence the UBox in film mode can reassemble the original film frames to aid in upconversion. The 3:2 sequence can be provided via an outside pulse from a telecine or time code trigger device available from Visual Matrix. In addition, with the time code option the UBox can internally track the 3:2 sequence automatically. Film mode can also accept off-speed PAL (24fps) video to upconvert to 1080 or 720p by performing an internal 3:2 pull down.

Rear Panel

(Shown with optional features)



Specifications

Input

SDI (SMPTE 259M)
525, 625, 625/24
Genlock to composite sync
Frame Pulse and A Pulse
Time Code (Option)
Audio (Option)

Output

HD-SDI (SMPTE 292M)
480p 59.94
720p (59.94, 60)
1035i (59.94, 60)
1080i (50, 59.94, 60)
1080p 24
HD Parallel
Same outputs as HD-SDI
HD sync output
Time Code (Option)
Audio (Option)

General

Control Ports: RS-232, RS-422, USB
4RU - 19" rack mountable
Auto switch 120 - 240v
Weight: prox. 30lbs.
1 year parts and labor warranty

Note that some of the specifications and features listed in this brochure are only available as part of specific packages or options.

Specifications subject to change without notice.

Ordering Information

UBox Models	
UBox	UBox with touch screen display
UBrp	UBox with redundant power supply and display
UBox Options	
UBau	Audio Delay
UBtc	Time code delay and 3:2 tracking

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