



Blackmagic Design Teranex Express

ProdCode: BMDTERANEXEXP12

12G-SDI real time SD, HD and Ultra HD up and down converter.

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Features

- SD, HD and Ultra HD broadcast up and down converter
- 178 up/down conversions between SD, HD, and Ultra HD in real time
- Synchronize non genlocked external feeds
- Conversions retain timecode, include closed caption data
- Maintain perfect audio sync so your video is immediately ready for editing or broadcast
- Dual link 12G-SDI
- Switch between 6G-SDI, 3G-SDI, HD-SDI and SD-SDI

Introducing Teranex Express, the world's first real time SD, HD and Ultra HD broadcast up and down converter. Featuring advanced patented algorithms, Teranex Express gives you visually transparent quality conversions and are mandated by major broadcasters and studios worldwide. You get an incredible 178 SD, HD and Ultra HD conversions in full 10-bit quality complete with audio, closed captions, timecode and more.

Use Anywhere

Perfect for live events, post and broadcast power supply

Imagine converting your SD to HD all the way up to Ultra HD in real time for presentation on massive outdoor LED displays, digital signs and live concerts or sporting events. Teranex Express is perfect as a dedicated up and down converter between broadcast equipment in television studios, and for remastering older SD and HD tapes into Ultra HD. You can even use Teranex Express in outside broadcast vehicles to up or down convert and synchronize video feeds instantly for live broadcast.

Featuring the familiar Teranex 2D and 3D control panel, Teranex Express has all of the controls you need at your fingertips. The built in LCD monitor lets you easily navigate menus and see source format and frame rate with live video, so you don't have to use an external monitor. With an elegant machined metal front panel, its compact 1RU size and built in international power supply, Teranex Express not only looks great in your studio, but is also perfect for portable racks and outside broadcast vehicles.

Use Anywhere

Transparent conversions between SD, HD and Ultra HD

Teranex Express can perform an incredible 178 up/down conversions between SD, HD, and Ultra HD in real time. You can use Teranex Express for video conversions or to synchronize non genlocked, external feeds, or cameras into switchers for live production. Conversions retain timecode, include closed caption data, and always maintain perfect audio sync so your video is immediately ready for editing or broadcast.

Advanced Connections

Broadcast quality connections for 24/7 reliability

Teranex Express features the most advanced broadcast connections, including the

world's first dual link 12G-SDI that is compatible with all of your existing SDI equipment. The genlock input lets you synchronize signals between equipment and for larger studios, you can install an optional fiber optic module that lets you run video from up to 28 miles away.

12G-SDI

High speed multi-rate SDI for SD, HD and Ultra HD

Teranex Express is the world's first broadcast converter to include multi-rate 12G-SDI connections. That means it can switch between 6G-SDI, 3G-SDI, HD-SDI and SD-SDI making it compatible with all of your existing SD, HD, and Ultra HD equipment. These connections can transfer data at an amazing 12 gigabits per second, making them fast enough to support progressive Ultra HD video at up to 60fps. That means Teranex Express will be able to support emerging formats when they become available, making it the most expandable and future proof solution you can buy.

Teranex Quality

Amazing detail, sharpness and clarity

Teranex Express features the advanced processing technology developed and patented by Teranex, which allows instant calculations on thousands of pixels simultaneously. You get full 10 bit processing, extremely high quality de-interlace and new optical quality Ultra HD scaling algorithms that interpolate images in real time with amazing detail, sharpness and clarity without artifacts. That's why Teranex conversions are indistinguishable from the original source video.

High Quality Deinterlace

Patented PixelMotion technology and multi direction filtering

Teranex's proprietary and patented PixelMotion deinterlacing algorithms create perfect progressive frames for conversion by adjusting the aperture on a pixel by pixel basis. That means you get improved image quality because the vertical resolution is maintained. PixelMotion deinterlacing preserves source detail and, when combined with multi direction diagonal filters, eliminates jaggies on conversions so you get well defined edges and the sharpest images possible.

Video Control

Adjust colour, aspect ratio and more.

Now you can quickly and easily find the tools you need to correct colour, convert formats or change aspect ratio. Teranex Express features a logically designed front panel and soft menus so you can adjust luminance, saturation, hue, black level, R-Y/B-Y colour difference, sharpness, and more with the built in proc amp controls.

Teranex Express features an integrated LCD screen on the front panel so you can make adjustments with confidence during live broadcasts.

Ancillary Data

Multi channel audio, timecode and subtitles

Video includes a lot more than images, and Teranex supports conversion of up to 16 audio channels plus timecode and closed caption VANC data. Teranex Express is also compatible with Dolby encoded audio, so it never has to be decoded or re-encoded during up and down conversions. With Teranex Express your subtitles are always retained and both audio and timecode always stay in perfect sync with your video.

Mandated By Broadcasters

Teranex is asked for by name worldwide.

Teranex processing is so well known for quality that it has been mandated globally by many country's broadcasters for converting video. Because of its patented 10-bit processing algorithms and high quality deinterlacing, Teranex conversions look perfect, making distribution simple and problem free.

In the box:

- Teranex Express
- Software CD

