UltraStudio HD Mini

UltraStudio HD Mini features professional broadcast quality connections that include 3G-SDI, analog YUV and composite NTSC/PAL video inputs, along with a reference input. There are also two ¼" audio connections for analog audio input that work with balanced and HiFi sources. In addition, UltraStudio HD Mini can remote control professional broadcast decks using the built in RS-422 connection. For output, you get dual link 3G-SDI with fill and key, and an HDMI connection for monitoring video with a big screen television!

Connections

SDI Video Inputs
1 x 3Gb/s SD/HD switchable.

SDI Video Outputs
2 x 3Gb/s SD/HD switchable, supports fill and key.

SDI Rates
270Mb, 1.5G, 3G

Optical SDI
None

HDMI Video Inputs
None

HDMI Video Outputs
1 x HDMI 1.4b type A connector.

Analog Video Inputs
Y, B-Y, R-Y/NTSC/PAL.

Analog Video Outputs
None

Analog Audio Inputs
2 x 1/4 inch jack connectors for balanced and unbalanced analog audio.

Analog Audio Outputs
None, embedded audio only.

SDI Audio Inputs
16 Channels embedded in SD and HD.

SDI Audio Outputs
16 Channels embedded in SD and HD.

HDMI Audio Outputs
2 Channels embedded in SD and HD.

Timecode Connection
None. RP-188 only.

Reference Input
Tri-Sync or Black Burst.

$495
Supported Codecs


Software

Software Included
Media Express, Disk Speed Test, LiveKey, Blackmagic Desktop Video Utility and Blackmagic driver on Mac and Windows. Media Express, Blackmagic Desktop Video Utility and Blackmagic driver on Linux.

Internal Software Upgrade
Firmware built into software driver. Software driver loads upgrades at system start or via updater software.

Software Applications

Other supported applications include:
Video Standards

**SD Video Standards**
525i59.94 NTSC, 625i50 PAL

**HD Video Standards**
720p50, 720p59.94, 720p60
1080p23.98, 1080p24, 1080p25,
1080p29.97, 1080p30, 1080p50,
1080p59.94, 1080p60
1080PsF23.98, 1080PsF24,
1080PsF25, 1080PsF29.97, 1080PsF30
1080i50, 1080i59.94, 1080i60

**2K Video Standards**
2K DCI 23.98p, 2K DCI 24p, 2K DCI 25p, 2K DCI 23.98PsF, 2K DCI 24PsF, 2K DCI 25PsF

**Ultra HD Video Standards**
None

**4K Video Standards**
None

**SDI Compliance**
SMPTE 259M, SMPTE 292M, SMPTE 296M, SMPTE 372M and SMPTE 425M A/B.

**SDI Metadata Support**
RP 188/SMPTE 12M-2 and closed captioning.

**Audio Sampling**
Television rate of 48kHz and 24 bit.

**SD Video Sampling**
4:2:2/4:4:4

**Color Space**
REC 601, REC 709.

**HDMI Resolution**
Pixel for pixel HD resolution input from connected device.

**Multiple Rate support**
SDI and HDMI video connections are switchable between standard definition and high definition. SDI switches between 270 Mb/s, 1.5 Gb/s and 3 Gb/s.

Hardware Frame Buffer

v210 (10 bit YUV), 2vuy (8 bit YUV), ARGB, BGRA (8 bit RGB), r210 (10 bit RGB), R12B,R12L (12 bit RGB).

Color Precision

**HDMI**
8-bit RGB 4:4:4 up to 1080p30, and 8, 10-bit YUV 4:2:2 in all standards.

**SDI**
8, 10, 12-bit RGB 4:4:4 up to 1080p30, and 8, 10-bit YUV 4:2:2 in all standards.

Computer Capture

1 x Thunderbolt™ 3 for Mac and Windows. Powers from Thunderbolt host computer, includes Blackmagic Desktop Video SDK.

Control

**Built in Control Panel**
None. Supports Teranex Mini Smart Panel with 2.2 inch color display for video preview, audio meters and status.

**Device Control**
1 x RS-422 deck control.
Processing

Colorsace Conversion
Hardware based real time.

HD Down Conversion
Real time 10-bit hardware down conversion on SDI B output when working in HD video formats on playback. Selectable between letterbox, anamorphic 16:9 and center cut 4:3 styles.

Real Time Effects
Final Cut Pro X internal effects. Premiere Pro CC Mercury Playback Engine effects. Avid Media Composer internal effects. DaVinci Resolve.

Physical Installation
Requires computer with a Thunderbolt™ 3 USB-C port. Please check support pages to see the full system requirements.

Operating Systems

Mac 10.14 Mojave, Mac 10.15 Catalina or later.

Windows 7, 8.1 and 10, all 64-bit.

Linux

Power Requirements

Powered by Thunderbolt cable. Requires computer with a Thunderbolt™ 3 USB-C port.

Physical Specifications
Environmental Specifications

<table>
<thead>
<tr>
<th>Operating Temperature</th>
<th>Storage Temperature</th>
<th>Relative Humidity</th>
</tr>
</thead>
<tbody>
<tr>
<td>5° to 40° C (32° to 104° F)</td>
<td>-20° to 45° C (-4° to 113° F)</td>
<td>0% to 90% non-condensing</td>
</tr>
</tbody>
</table>

What's Included

- UltraStudio HD Mini
- SD card with software and manual
- DaVinci Resolve SD card

Warranty

3 Year Limited Manufacturer's Warranty.

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