# Livestream studio hd51 manual

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User Manual For Livestream Studio Version 1.3.0 with Version1.4.0 AddendumNew in Version 1.4 Clean & ISO RecordingRecord up to 4 sources simultaneously - choose from clean (without graphics) and dirty (with graphics) program as wellany live camera inputs.Support for time of day timecode in recorder and media player.For More Information on ISO Recording: /portal/articles/1348317-iso-recording-best-practice-recommendation Media Playback while RecordingYou can now open your recordings in the media player without the need to stop the recording - allowing you to perform some basic replay workflow.Remote CameraDesktop - Broadcast a remote computer desktop video and audio as a Livestream Studio input via your local Wifi or Ethernet network. Supports full motion and audio. Requires installing Livestream Studio Remote Camera on the transmitting computer (Available for Windows only, OSX coming soon).Cloud - Downlink live feeds from your Livestream account anduse it as a remote live source in your program mix. For More Information on Remote Camera: Portal/articles/1263047-livestream-studio-remote-camera Minor User Interface UpdatesNew Tab design which makes it easier to see which tab is selected and shown.Audio Pre-Mixer UpgradeNow you can map multiple audio channels to left and right in the pre-mixer, allowing you to perform a pre-mix mix. For More Information on Remote Camera: Portal/articles/1263047-livestream-studio-remote-camera Minor User Interface UpdatesNew Tab design which makes it easier to see which tab is selected and shown.Audio Pre-Mixer UpgradeNow you can map multiple audio channels to left and right in the pre-mixer, allowing you to perform a pre-mix mix in stereo mode.Various Bug FixesTable of Contents 1. 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Streaming7.1. Stream to Livestream7.2. Stream to Other Services7.3. Stream to RTMP7.4. Stream to ZiXi8. Recording9. GFX Channels9.1. GFX Templates9.2. GFX Mixing and Overlays10. Media Player Channels11. Color Source12. Importing Files with Adobe Premiere Pro12.1. Installing Adobe Premiere Pro12.2. Downloading and Installing the Blackmagic Design Driver12.3. Converting Video Files Using Adobe Premiere Pro AppendixA. Supported DevicesB. Supported Formats for TranscodingC. Input Source TroubleshootingWarranty41. Getting started1.1 Welcome to Livestream StudioCongratulations and welcome to Livestream Studio. All hardware productscome with Livestream Studio preinstalled. It just takes a few steps to combine LiveHD sources, two media players, two graphic overlays and two color generators into a broadcast quality production, whether for large-format screens orstreamed to an audience online using the built-in encoder.This manual applies to the Livestream Studio Software as well as the Livestream Studio HD50, HD500, HD900 and HD1700.Livestream Studio can:Mix multiple video inputs with two channels of internal Media Player, two channels of GFX overlays and two color generators.Stream HD video to the Livestream platform via Livestream Studios built in encoder.Output a broadcast quality PGM line cut on a variety of digital and analog connectors.5.1.2 Installing Livestream StudioNote: Blackmagic Desktop Video drivers must be updated to version 9.6 or higher for use with Livestream Studio v1.2 or higher. Go to blackmagicdesign.com/support to update drivers.A USB dongle comes pre-installed onLivestream Studio Hardware. ForStudio Software only users, makesure to start by inserting the dongleand opening the drive. Double clickthe Livestream Studio Launcher.Agree to the Terms of Service and clickNext.Follow the steps to completeinstallation and click finish.6After clicking finish, a second installer will launch.Click Install, accept the terms, and follow the steps to completion. This secondprocess will look exactly like the first. Once complete, Livestream Studio will launch.72. User Interface Overview The Livestream Studio software will launch to the main operating UI.1 Stream Button2 Streaming Info Panel3 Record Button4 CPU Usage Monitor5 Preview Window6 Program Window7 Main Mix Window / Insert Advertising8 GFX Overlay Window9 Multiview10 Audio mixer, Input Settings, GFX, Media, and Streaming modules can be moved freely between left and right side windows by dragging and dropping tabs to the desired window.3.1 Physical Connections3.1 Blackmagic Video Card Input/OutputLivestream Studio only works with Blackmagic Design products. This ensures that our product is extremely reliable and robust since we do not needto test and integrate multiple cards from various vendors. Blackmagic also offers avariety of high quality products at very affordable prices.For a list of supported devices please see Appendix A. Each Livestream Studio hardware product comes with a connection diagram in the box.3.2 Graphics Card Input/Output (Multi-Screen)Starting with Studio V1.3, the software can support anywhere from 1 to 4 displays, allowing for various viewing configurations across all of the available screens. (More on this in section 4.5: Multi-Screen) Note: In order to utilize 4 screens, we recommend purchasing a Quad GPU graphics card such as the NVidia Quadro series cards.94. PreferencesBefore using Livestream Studio, it is necessary to configure the project settings. Tobegin configuration, click the Gear Wheel icon in the top right-hand corner of theUI.Note: Preferences are locked when streaming is in progress. Be sure to set all preferences before taking a stream live.4.1 General PreferencesVideo Format: Defines the primary project format for Livestream Studio operation. Although we recommend setting all cameras to the same format, starting with LivestreamStudio 1.3 there is an option to convert the video format of the input. More on this within the Input Settings section of the manual (5.1). The output format will also match this selection unless down-conversion is necessary.Audio Format: Allows selection of mono or stereo audio operation. Preview Method (Interlaced Operation): Allows selection of multi-view10 interlaced field viewing. This reduces CPU usage when needed.Preview Method (Progressive Operation): Allows operation in Half Speed LowCPU mode which removes every other frame from multi-view display in order tominimize CPU usage.Audio Cross Fade Duration: Sets the speed (in frames) for audio cross fadesfollowing CUT functionality only. Audio cross fades associated with video crossfades(follow) will follow the Speed setting in the Main Mix window (seePreview/Program Switching section below).Media Autoplay Mode Behavior: Defines the method for Media Playerplayback as Pause Playback or Continue Playback.Auto Start with Windows: When selected, Livestream Studio Software willlaunch with Windows.Different GFX Templates: Allows for different settings and templates betweenGFX 1 and 2.Low Input-output Latency Output: This is an experimental beta feature we have added to reduce latency through the SDI output.4.2 Input/Output Preferences Livestream Studio launches withdefault settings for (4) HD-SDI inputs(via DeckLink Quad card) and (1) HD-SDIoutput (via DeckLink Studio card). Thisconfiguration can be changed toallow for (5) simultaneous inputs withno live output (streaming or internalrecording assumed in thisconfiguration).Output Selection: Select the output source first, as this will lock/unlock thefifth video input accordingly. HDMI Output Through Video Card: To reduce latency on the program out,output directly through the graphics card. Outputting through the Blackmagiccard has varied latency depending on the project format11.3 no frames. Output through the graphics card is able to be set to the Multi-Screen section of thepreferences and configure the external display. More on this in section 4.5.Note: This function does not work in SD formats (PAL and NTSC).Input Selection: Once the output source is set, make sure the proper inputsources are selected.Select the desired source from the Video Input dropdown for each associated inputchannel. Then select the desired audio input method from the Audio Input dropdownfor each associated input channel (DeckLink Quad inputs will only support SDImbedded audio). DeckLink Studio inputs will support embedded, analog or AES/EBUAudio via the Blackmagic breakout cable.Note: Blackmagic analog audio input MUST be accompanied by a video input source to be active. When using analog audio input, be sure to use the DeckLink Studio card as one of the video inputs.Configure the inputs so that the multi-view shows only the inputs use to avoid clutter. Toadd an input, click the '+' icon at the bottom of the settings window. From thereselect the type of input source needed: either video sources, graphics, media, orcolor bars.Rename each input channel as it will appear in the multi-view by changing theassociated name under the Camera column of the input selection menu. To deletea source, select it and click the - icon.12 4.3 Recording PreferencesRecord Location: Selects the location where Livestream Studio recordings will besaved. Click the Browse button to select the recording location.Record to Media Bin: When a recording is terminated, it will immediately beadded to the selected media bin. Both bins can be selected or deselected simultaneously.4.4 Streaming PreferencesAntilag: When enabled, the antilag feature works to reduce latency on the viewingend of the stream; if a delay on the encoding side builds up past the user selectedAntilag Duration, the frame buffer will be cleared. Generally this option shouldremain off unless low latency is a critical component of the broadcast. It should only be used when a solid internet connection is available for streaming.Antilag Duration: Defines the antilag duration (in frames) for use with the antilagstreaming feature (see above).Key Frame Interval: Set the keyframe interval.Stop Streaming When Encoder Queue Size is reached: Livestream Studio will terminate streaming if the queue limit (set in frames) is reached.13 Bitrate (Variable vs. Constant): Variable bitrate selection will optimize the encoderbitrate when possible. Selecting Constant bitrate will maintain the outgoing bitrate,regardless of incoming video bitrate.Experimental UDP Streaming (Beta): This is an experimental feature for streaming to New Livestreamthrough ZiXi.4.5 Multi-ScreenDisable Primary Multi-view: will disable the multi-view shown on the Primary display. Connected Displays: When using multiple externaldisplays for the output, choose the preferred displayto configure from this drop-down menu.Resolution: Choose from the available resolution settings for the selected display.Frame-rate: Adjusts the frame-rate of the selecteddisplay.Layout: Choose the desired multi-view layout for theselected or display or disable the software output tothat display.Preview: Drag and drop the available input sourcesfrom the above section to the desired spot on theMulti-View layout.Show Audio Levels Overlays: Displays the audio level overlays on the inputs displayed on theselected screen.Show Screen Overlays: Displays on-screen status information on the Multi-Screen.Show Warning Overlays: Displays status messages on the external display.Allow Mouse on Multi-View: Disable this option to prevent the mouse from entering the selecteddisplay area.For best results, configure the Multiple Displaysoption within the Screen Resolution section of the Windows Control Panel to Extend these displays.14 4.6 Ad InsertionThis feature allows the producer to insert a Google Advertisement by clicking abutton. Adjust the duration, background and transition type within the Ad Insertionsection of the Preferences Menu.Note: Requires a Google DFP account ( and the purchase of Livestream Platform Enterprise Plan. After configuring the settings, click the Insert Advert button below the Main Mix section of the Livestream Studio UI to display a Mid-roll Ad. 4.7 Hotkey PreferencesSet user defined hotkeys for easier Livestream Studio operation from the keyboard.5. Input Settings & The Audio MixerLivestream Studio accepts up to 8 channels of embedded audio on all digital (SDIand HDMI) inputs. When a DeckLink Studio card is configured as an input, Livestream Studio can also ingest up to 4 channels of analog audio via 1/4 or 6 channelsAES/EBU audio (analog inputs 3-6 can be used as additional AES inputs when15analog audio is not in use) via the Blackmagic breakout cable.Audio mixer control is broken down into three modules: Input Settings, Converter andAudio Mixer.5.1 Input Settings In Livestream Studio 1.3 there are three different tabs within the input settings. Thefirst one is labeled audio.Audio Input Settings Module: Two audio channels per input source in stereo mode, or up to eight audio channels per input in mono mode, for use with the respective sourcefader. By default, channels 1 & 2 are selected for all input sources in stereo mode.Channel 1 is selected for all input sources in mono mode.To open the input settings module for a given source, click the Gear Wheel icon next tothe sources display name in the multi-view or audio mixer or where the line cut should display on some screens in the venue.To output through the graphics or go to the Multi-Screen section of thepreferences and configure the external display. More on this in section 4.5.Note: This function does not work in SD formats (PAL and NTSC).Input Selection: Once the output source is set, make sure the proper inputsources are selected.Select the desired source from the Video Input dropdown for each associated input channel. Then select the desired audio input method from the Audio Input dropdownfor each associated input channel (DeckLink Quad inputs will only support SDImbedded audio). DeckLink Studio inputs will support embedded, analog or AES/EBUAudio via the Blackmagic breakout cable.16Converter: Allows for any form of video inputto be converted toany type of videoformat in real-time.This display allows producersto use different typesof camera sources and formats. The video converter also has an autodetectfunction that will recognize different formats instantly.If the converter does not automatically detect the source format of the camera, select the Converter tab to pick the format from a full range of 1080,720, NTSC and PAL options and convert it into the format that the currentproject is set to.Also available within the Converter tab is the option to Invert Field Order.Tally: Activate and control a Tally Light system through the Livestream Studio.After connecting the tally systemvia USB, designate a specific Tally Light to a camera by selecting thelight from the drop-down menu.5.2 Audio MixerLevel Meters and Faders: Each input source has a level meter with fader and gain stage control.17Peak Hold: To enable peak hold for a particular level meter, click the Lock iconassociated with the desired input or master output source.Air: Pushes the selected input source audio to the master fader.Follow: Audio transitions will follow video transitions. When selected, Livestream Studiowill fade between sources based on the Audio cross fade duration setting in GeneralPreferences.Link (Input Source Fader): Works in conjunction with the Follow option. Click the Link icon to select the audiosource preferred for each video source.Link (Stream Out/Record Out Fader): When selected, streaming and recording audio will follow the same fader. Deselecting this option gives the producer control overstream out and record out audio faders individually.Mute: Source faders, as well as master stream and record out faders, can be muted individually via the mute button.Audio Monitoring: Audio monitoring is supported through Livestream Studios 1/8 headphone jack. Individual sources can be soloed or master audio can be monitored.To add a source to the audio monitor, click the Headphone icon below the desiredaudio level meter. Master audio monitor levels can be adjusted via the volume controlin the top right-hand corner of the UI.6. Preview/Program Switching Livestream Studio is designed for traditional preview/program switching, with controlavailable via mouse or user defined keyboard shortcuts. When a source is selected forpreview, it is highlighted in green. When a source is selected for program, it is highlightedin red.18 6.1 Mouse Control Left-click on a source to preview it. Right click on a source to take it to program. The mousecan also control switching via the Main Mix window. Click the Cut button to cutbetween preview and program sources. Double clicking the preview window will alsocut it to program. Click the Auto button to fade or wipe between preview andprogram sources; fade time is defined by the Speed (in frames) setting in the MainMix window. The T-bar can also be used to manually fade between preview andprogram sources. FTB fades the program to black and also fades audio out.To select a wipe, go to the wipes module belowwhich will display an array of wipe transitions.Adjust the wipe on the right side of the module,set the clip as a module.Depending on the complexity of the wipe, theproducer can reverse direction, flip (invert), orfeather each transition. Wipes that work in ahorizontal or vertical manner can be adjustedaccording to the X and Y axis.Advertising Insertion can be found within theMain Mix section of the UI. This feature will onlybe available to producers withEnterprise Planson Livestream.Note: This feature will only work while streaming to a Livestream Platform Enterprise Plan.6.2 Keyboard ControlBy default, Livestream Studio is set to match the keys on the Studio Keyboard.Reassign the keyboard controls by visiting the Hotkeys section of the Preferencesmenu.197. StreamingLivestream Studio comes with Livestreams proprietary encoder built in, allowingfor multi-bitrate streaming to the New Livestream platform with the click of amouse.The can also stream to either of the following CDNs:Ustream.tvAkamaiYouTube Live ZixiWowza Media Server (RTMP)7.1. Stream to Livestream 7.1.1 Livestream Account CreationThe easiest way to stream to the web = is via Livestream Platform. In order to stream through Livestream the user must first make an account. Go to www.livestream.com. Click Log In located in the top right corner, and choose Create an Account.Either join via a Facebook account or with an email address.Once the account is established, the user is free to createevents and broadcast live.7.2 Creating and Managing EventsTo create an event, click on the account name in the top right corner of thepalon and select Create an Event from the drop down menu. The user will beprompted to set the event title (by default the current date), as well as a startand end time for the event.20Draft Events - By default, new events will be in draft mode until the user chooses toPublish & Announce them. Draft events are not displayed publicly on the accountpage, but can be broadcasted and viewed while logged into the New Livestream Producer account. This is helpful when testing privately.7.1.3 Log into LivestreamClick on the Stream tab to launch the streaming control module.Enter the username (email) and password to login.Create an event within the streaming module or via a web browser. Once the eventhas been created, select it from the event dropdown menu. Give the stream a title and select the streaming quality from the Quality Selection.21Each quality setting has a locked audio and video bitrate associated with it. Qualityselection should be based on the available upload bandwidth for streaming. To check the speed of the connection, go to speedtest.net and run a speed test. Choose theappropriate streaming profile based on upload bandwidth results.21Mobile Quality: Video Bitrate = 130-170Kbps, Audio Bitrate=46-48Kbps Total A/V Bitrate = 190-200Kbps Recommended Upload Bandwidth = 0.5Mbps Normal Quality: Video Bitrate = 300-420Kbps, Audio Bitrate=94-96Kbps Total A/V Bitrate = 435-455Kbps Recommended Upload Bandwidth = 1.0Mbps Medium Quality: Video Bitrate = 470-620Kbps, Audio Bitrate=127-128Kbps Total A/V Bitrate = 650-678Kbps Recommended Upload Bandwidth = 1.2Mbps High Quality: Video Bitrate = 1400-1600Kbps, Audio Bitrate=256Kbps Total A/V Bitrate = 1750Kbps Recommended Upload Bandwidth = 2.2Mbps Medium + Mobile Quality: Video Bitrate = 600-800, Audio Bitrate=176Kbps Total A/V Bitrate = 850-880Kbps Recommended Upload Bandwidth = 1.3Mbps High + Medium + Mobile Quality: Video Bitrate = 1900-2400Kbps, Audio Bitrate=432Kbps Total A/V Bitrate = 2570-2610Kbps Recommended Upload Bandwidth = 3.0Mbps HD + Medium + Mobile Quality: Video Bitrate = 2500-2900Kbps, Audio Bitrate=430-448Kbps Total A/V Bitrate = 3050-3100Kbps Recommended Upload Bandwidth = 3.5Mbps HD + High + Medium + Mobile Quality: Video Bitrate = 3900-4500Kbps, Audio Bitrate=686-704Kbps Total A/V Bitrate = 4586-5204Kbps Recommended Upload Bandwidth = 6Mbps Bitrates for Audio in Mono: Mobile = 24Kbps Normal = 48Kbps Medium = 64Kbps High = 128Kbps HD = 256Kbps22Once quality selection is complete, click the Go Live button to begin the stream.Note: Support for multi-bitrate streaming to any CDN (V 1.3 and above) is also available.7.1.5 Active StreamWhen streaming is active, the Stream Info Window and Streaming Log provide liveupdates on streaming status.Streaming Info Window: Displays live streaming status info.Duration: Displays the current streaming duration.FPS: Displays the current outgoing FPS.KBPS: Displays the current outgoing kbps. Viewers: Displays the number of concurrent viewers connected to the stream.Stream Status: Displays the current status of the stream.Perfect Streaming: The stream is going out with no issues.Internet Too Slow for Quality: Uploadbandwidth does not support selected quality.This is generally an on site IT issue and should be escalated to the IT department. Changing qualityrequires the stream to be stopped andrestarted. Lost Internet Connection: Internet connectionhas been lost. Again, check with onsite IT if this happens.CPU Warning: CPU is above 95%. Streaming Log: Displays live streaming updates.Antilag Feature Triggered: Antilag has been triggered based on the selected queue limit. Theabbreviations are:[DD]: Days[HH]/[H]: Hours[MM]: Minutes[SS]: Seconds[MS]: Milliseconds [FF]: Frames28Image Assets: Locally hosted PNG, JPG (with alpha support) or JPEG image Assets can be added to a template via the Asset Addition button below the templatepreview. Once added, images can be scaled and positioned with the mouse. Image opacity can also be adjusted by clicking on the arrow in the top right hand corner of the asset within the template. Note: Best practices recommendation: when multiple read/write processes are in play (Media, GFX, recording), it is recommended that multiple media sources/destinations be used. This will improve overall performance of the system. Picture in Picture (PiP): To add a PiP, create a new template by clicking the '+' sign and clicking the camera icon to the right. Clicking the arrow on the corner of the PiP will display a series of options which include Source, Opacity, Volume, Shadow, Border and Resize (Scale / Crop).Add as many GFX layers as needed, however we recommend keeping the number of PIPs at five or lower. Dynamic Image: To add a dynamic image click the Image icon and select dynamic image. Functionality with dynamic images looks the same as a static image. Dynamic images, however, stick to their file location and continually lookfor updated files. When a file is updated the image is immediately updated in the GFX slate. This is particularly useful for graphics that have minor changes throughout a program. GFX Template Layering: A single GFX template can support an infinite number of text or image layers. As assets are imported, they are added to the top layer of the template. Right- click on the asset in the template data view.3. Click the + button at the bottom of the template. Starting with v1.3, move and copy GFX templates by right-clicking on the template.29 9.2 GFX Mixing and Overlays GFX Mixing: Controlled by the GFX Overlaywindow.GFX Preview: To preview a GFX channel, click the Eye icon for the associated channel.GFX Air: To air a GFX channel, click the Air button for the associated channel.GFX Channels: When selected, both GFX channels will preview air together.Cut/Fade Selection: Assigns cut or fade insert method to GFX channels. Fade time is defined by the Speed (in frames) setting in the Main Mix window.10. Media Player Channels Livestream Studio has two built-in Media Player channels. Click the Media 1 orMedia 2 tab to access the corresponding Media Player module.Importing Clips: To add a clip to the selected Media Player channel, click the +button at the bottom left of the Media Player module and select the locally hosted file. Add as many clips to a Media Player playlist as desired. Once added, renameclips by double-clicking on their displayed name within the playlist.Livestream Studio also offers a built-in transcoder. To avoid any further transcoding of videos, the software requires AVI files with MJPEG Video Codec and uncompressedPCM audio (48Khz). Livestream Studio also supports audio only clips in the form ofMP3, WAV, and AAC files.For best practice, the video rate resolution and frame rate must match Livestream Studio project settings. Livestream Studio automatically transcodes the file.Transcoding time depends on the length of the clip. Please See Appendix B for all supported formats. All transcoded files will be stored in the My Videos folder. (Computer>Local Disk (C:) > Users >User >My Videos > Transcoding).Note: Best practices recommendation: when multiple read/write processes are in play (Media, GFX, recording), it is recommended that multiple media sources/ destinations be used. This will improve overall performance of the system.Removing Clips: To remove a clip from the Media Player playlist, click the x next to the clip name.Clip Playback Control: To control playback on a clip, use the playback tools at the bottom of the clip preview window.Setting Clip In and Out Points: To set an in or out point on an imported clip,navigate to the desired point11.2 Test Audio When using the source color as a test, test audio by selecting the Test Tone option.3212. Importing Video FilesLivestream Studio comes with two Color Sources that can be used as abackgroundsor as a color test for programs. There is also a tone generator to test sounds.11.1 Choosing a colorTo choose a solid color, select the Solid Color option. Click on # symbol to choose the color. For color bars select the color bars option.11.2 Test Audio When using the source color as a test, test audio by selecting the Test Tone option.3212. Importing Video Files Using Adobe Premiere ProThis process is a good backup and also works to transcode on another computer.12.1 Installing Adobe Premiere ProTo either use the PremierePro 30-day trial (functions without restrictions or watermarks), buy a license for $799. or get a subscription license via Adobe Creative Cloud for $75/month or$49/month annually. creativecloud/buying-guide.htmlDownloading and installing Adobe Premiere Pro CS6:1. Download Installer . Sign in with an Adobe ID or register for free on the website.Once the download is complete, the installer should automatically launch. Followthe steps to complete installation.Once Adobe Premiere Pro is installed, install the latest version of the Blackmagic Design Driver.Note: If the most updated version of Blackmagic design driver is already installed, remove it and reinstall the driver.12.2 Downloading and Installing the Blackmagic Design Driver.Note: Please ensure that Adobe Premiere is installed before performing this step.Go to: Desktop VideoIf Desktop Video is already installed, remove it, then reinstall the driver. IfDesktop Video is not installed skip to Step 3.33Open the Desktop Video file download1. Once open, select remove all files 2. Select remove, then follow the steps to complete the uninstall3. Restart the computerInstalling Desktop Video 1. Open the saved Desktop Video file2. Follow the steps to complete installation. restart the computer.12.3 Converting Video Files Using Adobe Premiere ProOpen Adobe Premiere Pro and choose a new project.34Select the capture format:Select the sequence settings.Important: These should match the Video Format setting of the Livestream Studio Project.Here are two examples:35Import the video file and select openThe imported file should appear in the clip bin:36Drag the clip into the timeline.1. The user will be prompted to Change or Keep Sequence Settings.2. Choose Keep Sequence Settings.Exporting video clip:1. Go to File > Export > Media37Select Match Sequence SettingsEnter an output nameClick Export38Once exporting this window will appear:See section 10 about adding clips to the media player.12.4 Downloading and Installing the Blackmagic Design Driver for Final Cut ProNote: Please ensure that Adobe Premiere is installed before performing this step.1. Go to: and select the product.2. Download Desktop Video1. Open the saved Desktop Video file. 2. Double Click the Installer file to begin installation.394. Follow the steps to complete installation.5.When the driver completes installation, restart the computer.12.5 Converting Video Files using Final Cut Pro 71. Open Final Cut Pro and choose a new project 2. Drag the video clip into the file bin3. Drag the clip into the timeline.1. A prompt to Change the Sequence Settings will appear.2. Choose Yes4. Go to File > Export > Quicktime Movie 5. Choose sequence settingsNote: Settings must be exactly the same as the settings on the Livestream Studio project. 6. Save the clipSee section 10 about adding clips to the media player.40Appendix A - Supported DevicesPCIe Capture and PlaybackBlackmagic Design DeckLink QuadBlackmagic Design DeckLink SDI Blackmagic Design DeckLink DuoBlackmagic Design DeckLink optical Fiber Blackmagic Design DeckLink StudioBlackmagic Design Intensity Pro Blackmagic Design DeckLink HD Extreme 3D Blackmagic Design DeckLink 4K ExtremeUSB 3.0Blackmagic Design DeckLink UltraStudio Express . com/products/ultrastudio/Blackmagic Design Intensity Shuttle for USB 3.0Blackmagic Design ATEM 1 M/E Production Switcher Blackmagic Design ATEM 2 M/E Production SwitcherThunderboltBlackmagic Design Intensity Shuttle for Thunderbolt Blackmagic Design Intensity Extreme . com/products/intensity/Blackmagic Design UltraStudio Express . com/products/ultrastudio/Blackmagic Design UltraStudio 3D Mini Recorder and Mini Monitor LightsThe Livestream Studio software currently supports Tally Light devices from metaSET2 (www.metasetz.com).41Appendix B - Supported Formats for TranscodingFile ContainersFormat File Extensions Media SourceMedia SinkRequires3GP .3g2, .3gp, .3gp2, .3gppMPEG-4 File Source3GP File SinkWindows 7AVI .avi AVI File SourceNone Windows 7AVI .avi AVI File SourceNone Windows Vista File sink: Windows 7MPEG-4 .m4a, .m4v, .mov, .mp4MPEG-4 File SourceMPEG-4 File SinkWindows 7Synchronized Accessible Media Interchange (SAMI).sami, .smi SAMI Media SourceNone Windows VistaWAVE .wav AVI File SourceNone Windows 7Audio CodecsFormat Decoder Encoder Requires -law Coding Audio CompressionManager (ACM) None CodecNone Windows VistaAdaptive Differential Pulse Code Modulation (ADPCM)ACM ADPCM Codec None Windows Vista42Advanced Audio Coding (AAC)AAC Decoder AAC Encoder Windows 7MP3 Windows Media MP3 DecoderNone Windows VistaGSM 6.10 ACM GSM 6.10 CodecNone Windows VistaMedia Audio Decoder Windows Media Audio Voice DecoderWindows VistaNote: Media Foundation provides wrappers for several ACM codecs, listed in the previous table. However, Media Foundation does not support arbitrary ACM codecs.Video CodecsFormat Decoder Encoder Requires DV Video DV Video De-coder None Windows 77H.264 H.264 Video DecoderH.264 Video EncoderWindows 7MJPEG MJPEG Decoder None Windows 7 MPEG-4 Part 2 MPEG-4 Part 2Video Decoder None Windows 7MPEG-4 v1/v2/v3Windows Media MPEG-4 V3 Decoder Windows Media MPEG4 V1/V2 DecoderNone Windows VistaWindows Media MPEG-4 V3 Decoder Windows Media Video 9 Screen DecoderWindows Media Video 9 Encoder Windows Media Video 9 Screen Encoder Windows Media Video 7AVI .avi AVI File SourceNone Formats in Media Foundation (Windows). Microsoft. 28 Nov. 2012. Web. 7 Feb. 2013. .43Appendix C - Input Source Troubleshooting If there is no video signal in the Livestream Studio Software please make sure to confirmthe following:Are you using a Blackmagic capture device?The Livestream Studio Software only accepts video signals from certified Blackmagic capture devices. If using a non-Blackmagic device there is a chance the signal will notappear in the software.Do you have the latest version of the Blackmagic drivers?Stock drivers are often out of date as Blackmagic frequently releases updates. Please besure the latest version of the Blackmagic drivers are installed, which can be downloadedfrom the Operating System (Windows) in Step 1 Select the device Series (Decklink, Intensity, etc) in Step 2 Select the Product in Step 3 Click Search Download the latest Desktop Video for Windows and run the fileAre you getting a video signal in Media Express?Click the Start button, search for Media Express, and click Blackmagic Media Express to open the program. Select the Log and Capture tab to display the video input. Click onthe menu bar at the top of the program and select Preferences, then confirm that theProject Video Format matches the format of the video source. If a video signal is present inMedia Express, check Livestream Studio video format settings. If a video signal is present inMedia Express, confirm a connection to the correct input and that the camera isconfigured properly.Does Livestream Studios video format match your input source?Open Studios Preferences by clicking the Gear Wheel icon at the top right- hand side of the program window. Select the General tab at the left- hand side of the Preferenceswindow, and choose the video format that matches the input source format. Pleasenote that all input sources should match Livestream Studios video format setting.Are you connected to the correct input of your Blackmagic device?Generally Blackmagic does not specifically mark the input/outputs of the device on theactual hardware. Check the cameras settings to confirm they are properly configured for HD-SDI, HDMI, or analog depending on the input to the Blackmagic card.Does your camera output to an external display?Connect the camera output to an external display to confirm the camera is outputting a signal.44 Is your camera outputting properly? Many cameras with multiple output formats allow the user to define a specific output method. Check the cameras settings to confirm they are properly configured for HD-SDI, HDMI, or analog depending on the input to the Blackmagic card.Does your camera output to an external display such as a monitor to verify the videosignal. If a signal is not received, try a new wire of the same type or double-check the cameras settings.Appendix D - Known IssuesAudio on SDI outputUpdating the Blackmagic drivers may result in an echo on the audio output whensending the program feed via SDI. This is due to a configuration change within the Soundsetting in the Windows control panel. To resolve, open the Sound section of the Control Panel (Control Panel > Hardware and Sound > Sound) and disable all BlackmagicAudio outputs.Input Source Conversion When using a 1080i source within a project that is set to any other video format, somedistortion or interlacing on the resulting preview may occur due to improperidentification of the input source as Progressive. To avoid this issue:Change the Video Format of the General section of t he PreferencesMenu.Within the Input Settings > Convert, manually select 1080i as the input format.45WarrantyLivestream provides a limited one (1) year warranty for Livestream Studio. The limited warranty covers defects in components and workmanship as well asfunctionality of the Livestream Studio Software. The warranty start date begins onthe day the item is shipped.The limited warranty does not cover the following:Software, including the operating system and any third party softwareFailure due to viruses, bugs, or any of malicious softwareHardware or components not included in the original assemblyExternal computer hardware products and peripheralsProblems that result from:1. Accident, abuse, or misuse 2. Servicing not authorized by Livestream 3. Usage that is not in accordance with product instructions 4. Failure to follow the product instructions or failure to perform preventivemaintenance5. Failure to follow Livestreams technical support or RMA instructions including improper packagingProduct that has been damaged by actions that are beyond Livestreams control, including for example, impacts, fluids, fire, flood, wind, earthquake,lightning or similar disaster, war, strike, lockout, epidemic, destruction ofproduction facilities, riot, insurrection, or material unavailabilityLivestream will replace or repair any component or system free of charge.Livestream will ship free of charge any item covered by warranty back to thecustomer in the continental United States via ground delivery. Any other shippingfees will be covered by the customer. Customer must insure both ways if insuranceis desired. Livestream does not insure RMA shipments. To request an RMA, go to help.livestream.com and fill out a support claim.Livestream RMA PolicyLost or stolen dongles are your responsibility. The only way to replace a dongle is topurchase a new one. If you think your dongle is broken or malfunctioning you cancontact support at [email protected] to request an RMA.46Livestream Store Return PolicyAll returns must be shipped with an RMA (Returned Merchandise Authorization)number visibly printed on the outside of the return packaging. Any product returnedwithout an RMA number will be returned to the customer. To request an RMA e-mail[email protected] Returns may be assessed a restocking fee as describedbelow.Livestream reserves the right to reject any RMA or refund request for a damaged orunit returned with missing parts.

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