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Test & Demonstration Index

29 May 2007

Index to the HD DVD Side of *DVE, Test and Demonstration Materials*

Item	Description
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	Demonstration Video from Film, Video & Graphics, 1920 by 1080
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	Opening Program Logos & NASA/Respighi
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- | | |
|---|--|
| 1 | Swelltone, <i>Beethoven's Revenge</i> |
| 2 | Joe Kane Productions with the HD-DVD logo |
| 3 | <i>Digital Video Essentials</i> by the Numbers |
| 4 | Montage of Images from NASA / Music by Ottorino Respighi |

	HD Video Images
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- | | |
|---|--|
| 5 | Mix of 24 frame video and uncompressed 1080p graphics / Music by Nick Lane |
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	Examples of Film to Video
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- | | |
|---|--|
| 6 | Restaurant sequence in 1.78 |
| 7 | Restaurant sequence in 1.33 |
| 8 | Room ambiance |
| 9 | Model with chip chart on grainy film stock |

Test and Calibration materials

Video Calibration

- | | |
|---|----------------------------------|
| 1 | PLUGE w/Gray Scale |
| 2 | PLUGE w/White Bar |
| 3 | Needle Pulse |
| 4 | PLUGE w/Color Bars |
| 5 | 75% Color Bars w/ Gray Reference |
| 6 | 75% Color Bars w/ Gray Scale |

- 7 20% Window w/New PLUGE
- 8 40% Window w/New PLUGE
- 9 60% Window w/New PLUGE
- 10 80% Window w/New PLUGE
- 11 100% Window w/New PLUGE
- 12 100% Full Field Color Bars
- 13 75% Full Field Color Bars
- 14 Reverse Gray Ramps & Steps
- 15 Reverse Shallow Ramps & Steps
- 16 Cross Ramps Red
- 17 Cross Ramps Green
- 18 Cross Ramps Blue
- 19 Cross Ramps Cyan
- 20 Cross Ramps Magenta
- 21 Cross Ramps Yellow
- 22 Overscan
- 23 Overscan horizontally filtered
- 24 Safe Action - Safe Title
- 25 Pixel Phase
- 26 Dots

Geometry & Convergence

- 1 Full amplitude geometry
- 2 Full amplitude red geometry
- 3 Full amplitude green geometry
- 4 Full amplitude blue geometry
- 5 Full amplitude cyan geometry
- 6 Full amplitude magenta geometry
- 7 Full amplitude yellow geometry
- 8 Reduced amplitude, w/B&W references
- 9 Reduced amplitude red geometry
- 10 Reduced amplitude green geometry
- 11 Reduced amplitude blue geometry
- 12 Reduced amplitude cyan geometry
- 13 Reduced amplitude magenta geometry
- 14 Reduced amplitude yellow geometry

System Evaluation Patterns

- 1 Split screen 601/709 Color Bars & Film Demo

- 2 SMPTE RP 133 Resolution Chart
- 3 D.E.L. Chart, 1.33
- 4 D.E.L. Chart, Super 35
- 5 Component Multipulse, 5, 10, 15, 20, 25MHz
- 6 Luminance and Chroma 5 Step, divided into 3 sections
- 7 Luminance and Chroma ramps, divided into 3 sections
- 8 Luminance Shallow Ramp
- 9 Y, Cb, Cr Shallow Ramp
- 10 Luminance and Chroma Ramp
- 11 Bowtie
- 12 SDI Check
- 13 Raster Quick Reference
- 14 SMPTE RP 110 Anamorphic, 1.33 within a 1.78 raster
- 15 SMPTE RP 110 Anamorphic, 1.78 within a 1.78 raster
- 16 SMPTE RP 110 Anamorphic, 2.35 within a 1.78 raster
- 17 SMPTE RP 35PA, 1.78
- 18 SMPTE 1.33:1 Film / TV Resolution Chart
- 19 Full Amplitude Vertical Multiburst
- 20 A/V Timing

Video Response

- 1 Horizontal Luminance Sweep, Fixed, Full Band
- 2 Horizontal Luminance Sweep, Slow Phase Change
- 3 Horizontal Luminance Sweep, Fast Phase Change
- 4 Horizontal Luminance Sweep, Low Band
- 5 Horizontal Luminance Sweep, High Band
- 6 Horizontal Chroma Sweep, Fixed, Full Band
- 7 Horizontal Chroma Sweep, Slow Phase Change
- 8 Horizontal Chroma Sweep, Fast Phase Change
- 9 Horizontal Chroma Sweep, Low Band
- 10 Horizontal Chroma Sweep, High Band
- 11 Luminance Zone Plate, Circular
- 12 Luminance Zone Plate, Circular, Slow Phase
- 13 Luminance Zone Plate, Circular, Fast Phase
- 14 Luminance Zone Plate, Hyperbolic
- 15 Luminance Zone Plate, Hyperbolic, Slow Phase
- 16 Luminance Zone Plate, Hyperbolic, Fast Phase
- 17 Chroma Zone Plate, Circular
- 18 Chroma Zone Plate, Circular, Slow Phase Change

- 19 Chroma Zone Plate, Circular, Fast Phase Change
- 20 Chroma Zone Plate, Hyperbolic
- 21 Chroma Zone Plate, Hyperbolic, Slow Phase
- 22 Chroma Zone Plate, Hyperbolic, Fast Phase
- 23 Continuous Resolution, Horizontal, Luminance
- 24 Continuous Resolution, Vertical, Luminance
- 25 Continuous Resolution, Vertical, Chroma

Program Credits

Credits

FBI Warning

JKP End logo

Chapter Description

Demonstration Video from Film, Video & Graphics, 1280 by 720

Opening Program Logos & NASA/Respighi

- 1 Swelltone, *Beethoven's Revenge*
- 2 Joe Kane Productions with the HD-DVD logo
- 3 *Digital Video Essentials* by the Numbers
- 4 Montage of Images from NASA / Music by Ottorino Respighi

HD Video Images

- 5 Mix of 24 frame video and uncompressed 1080p graphics / Music by Nick Lane

6 ABC New York 720p/60 Demo

Examples of Film to Video

- 7 Restaurant sequence in 1.78
- 8 Restaurant sequence in 1.33
- 9 Room ambiance
- 10 Model with chip chart on grainy film stock

Test and Calibration materials

Video Calibration

- 1 PLUGE w/Gray Scale
- 2 PLUGE w/White Bar
- 3 Needle Pulse
- 4 PLUGE w/Color Bars
- 5 75% Color Bars w/ Gray Reference
- 6 75% Color Bars w/ Gray Scale
- 7 20% Window w/New PLUGE
- 8 40% Window w/New PLUGE
- 9 60% Window w/New PLUGE
- 10 80% Window w/New PLUGE
- 11 100% Window w/New PLUGE
- 12 100% Full Field Color Bars
- 13 75% Full Field Color Bars
- 14 Reverse Gray Ramps & Steps
- 15 Reverse Shallow Ramps & Steps
- 16 Cross Ramps Red
- 17 Cross Ramps Green
- 18 Cross Ramps Blue
- 19 Cross Ramps Cyan
- 20 Cross Ramps Magenta
- 21 Cross Ramps Yellow
- 22 Overscan
- 23 Overscan horizontally filtered
- 24 Safe Action - Safe Title
- 25 Pixel Phase
- 26 Dots

Geometry & Convergence

- 1 Full amplitude geometry
- 2 Full amplitude red geometry
- 3 Full amplitude green geometry
- 4 Full amplitude blue geometry
- 5 Full amplitude cyan geometry
- 6 Full amplitude magenta geometry
- 7 Full amplitude yellow geometry
- 8 Reduced amplitude, w/B&W references
- 9 Reduced amplitude red geometry
- 10 Reduced amplitude green geometry
- 11 Reduced amplitude blue geometry

- 12 Reduced amplitude cyan geometry
- 13 Reduced amplitude magenta geometry
- 14 Reduced amplitude yellow geometry

System Evaluation Patterns

- 1 Split screen 601/709 Color Bars & Film Demo
- 2 SMPTE RP 133 Resolution Chart
- 3 D.E.L. Chart, 1.33
- 4 D.E.L. Chart, Super 35
- 5 Component Multipulse, 5, 10, 15, 20, 25MHz
- 6 Luminance and Chroma 5 Step, divided into 3 sections
- 7 Luminance and Chroma ramps, divided into 3 sections
- 8 Luminance Shallow Ramp
- 9 Y, Cb, Cr Shallow Ramp
- 10 Luminance and Chroma Ramp
- 11 Bowtie
- 12 SDI Check
- 13 Raster Quick Reference
- 14 Reference for Maximum Ambient Light
- 15 Checkerboard
- 16 Checkerboard with targets
- 17 Checkerboard with black at 1 & white at 254
- 18 SMPTE RP 110 Anamorphic, 1.33 within a 1.78 raster
- 19 SMPTE RP 110 Anamorphic, 1.78 within a 1.78 raster
- 20 SMPTE RP 110 Anamorphic, 2.35 within a 1.78 raster
- 21 SMPTE RP 35PA, 1.78
- 22 A/V Timing

Video Response

- 1 Component Multiburst, 60% amplitude, 1, 2, 4, 6, 8, 10MHz
- 2 Component Multiburst, 60% amplitude, 10, 12, 14, 16, 18, 20MHz
- 3 Horizontal Luminance Sweep, Fixed, Full Band
- 4 Horizontal Luminance Sweep, Slow Phase Change
- 5 Horizontal Luminance Sweep, Fast Phase Change
- 6 Horizontal Luminance Sweep, Low Band
- 7 Horizontal Luminance Sweep, High Band
- 8 Horizontal Chroma Sweep, Fixed, Full Band
- 9 Horizontal Chroma Sweep, Slow Phase Change
- 10 Horizontal Chroma Sweep, Fast Phase Change

- 11 Horizontal Chroma Sweep, Low Band
- 12 Horizontal Chroma Sweep, High Band
- 13 Luminance Zone Plate, Circular
- 14 Luminance Zone Plate, Circular, Slow Phase
- 15 Luminance Zone Plate, Circular, Fast Phase
- 16 Luminance Zone Plate, Hyperbolic
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- 19 Chroma Zone Plate, Circular
- 20 Chroma Zone Plate, Circular, Slow Phase Change
- 21 Chroma Zone Plate, Circular, Fast Phase Change
- 22 Chroma Zone Plate, Hyperbolic
- 23 Chroma Zone Plate, Hyperbolic, Slow Phase
- 24 Chroma Zone Plate, Hyperbolic, Fast Phase
- 25 Continuous Resolution, Horizontal, Luminance
- 26 Continuous Resolution, Vertical, Luminance
- 27 Continuous Resolution, Vertical, Chroma

Gray Scale Tracking

- 1 New PLUGE on a black background
- 2 5% Window w/New PLUGE
- 3 10% Window w/New PLUGE
- 4 15% Window w/New PLUGE
- 5 20% Window w/New PLUGE
- 6 25% Window w/New PLUGE
- 7 30% Window w/New PLUGE
- 8 35% Window w/New PLUGE
- 9 40% Window w/New PLUGE
- 10 45% Window w/New PLUGE
- 11 50% Window w/New PLUGE
- 12 55% Window w/New PLUGE
- 13 60% Window w/New PLUGE
- 14 65% Window w/New PLUGE
- 15 70% Window w/New PLUGE
- 16 75% Window w/New PLUGE
- 17 80% Window w/New PLUGE
- 18 85% Window w/New PLUGE
- 19 90% Window w/New PLUGE
- 20 95% Window w/New PLUGE

21 100% Window w/New PLUGE

Uniformity

- 1 Video Black
- 2 20% Flat Field
- 3 40% Flat Field
- 4 60% Flat Field
- 5 80% Flat Field
- 6 100% Flat Field
- 7 Red Flat Field, 75%
- 8 Green Flat Field, 75%
- 9 Blue Flat Field, 75%
- 10 Cyan Flat Field, 75%
- 11 Magenta Flat Field, 75%
- 12 Yellow Flat Field, 75%
- 13 Red Flat Field, 100%
- 14 Green Flat Field, 100%
- 15 Blue Flat Field, 100%
- 16 Cyan Flat Field, 100%
- 17 Magenta Flat Field, 100%
- 18 Yellow Flat Field, 100%

Program Credits

Credits

FBI Warning

JKP End logo

Chapter Description

Audio Test Signals

Stereo Audio Checks

- 1 Full bandwidth pink noise
- 2 Frequency sweep, 15 Hz to 22 KHz
- 3 Band limited pink noise
- 4 440 Hz Calibration tone

Multichannel Audio

5 Subwoofer phase check

Band Limited Pink Noise

6 Left

7 Half Left

8 Center

9 Half Right

10 Right

11 Half Right / Right Surround

12 Right Surround

13 Half Right Surround / Center Back

14 Center Back

15 Half Center Back / Left Surround

16 Left Surround

17 Half Left Surround / Left Front

18 Subwoofer

Full Bandwidth Pink Noise

19 Pan around the room

Buzz & Rattle Check

20 Low Frequency Sweep, 15 Hz to 300 Hz

I'm not sure why the 7's look as if they are not in bold as this got copied over from my Excel Spreadsheet.

HD DVD Notes

There are going to be several categories under this heading, Album, HD DVD Players, and HD DVD Q&A.

Album

Please repeat the pictures of the back and front covers. Below that the Important Notice sheet, followed by a pdf of the NTSC insert. If you don't have this let me know. I think I can come up with the final version.

Important Notice

Program Notes for this HD DVD can be found at <http://videoessentials.com/dvehd/index.html>

To take full advantage of the features incorporated in this HD DVD, your player will need to have the latest firmware. For additional information on firmware updates go to <http://www.thelookandsoundofperfect.com/>

At least one future edition of the HD DVD of DVE is being planned with additional languages. We invite you to register this disc with us so we can keep you up to date. <http://www.dvdinternational.com/dvehd>

HD DVD Players

To take full advantage of the features incorporated in this HD DVD, your player will need to have the latest firmware.

In authoring the HD DVD of DVE we decided to take advantage of several HDi interactivity capabilities. Loading on-screen text from a file rather than putting that text in the menu graphics is an example. Doing that makes it much easier to add additional languages to the program. It created problems with player not conforming to the HDi specification for the format. Many people authoring for HD DVD have avoided certain kinds of HDi programming to make sure their discs didn't suffer similar playability issues. As the source of a benchmark test disc we chose to confront the issues of HDi functionality, partially because we needed that functionality to convey our message. As a result we've become the unexpected player testing resource.

The majority of players being sold have software upgrades that will make the HD DVD of DVE at least playable. This is what we have as of 28 May 2007

First Generation Toshiba HD DVD players, the HD-A1 and HD-XA1, should be at software version 2.0. We understand there is a 2.1 software update for the XA1. While this player is slow to start playing an HD DVD it makes up for it in its ability to handle HDi content. You'll find that the XA1 as an example is quick to load text and thumbnail image files for each test pattern, as well as loading the patterns themselves. We've also discovered the remote for the XA2 works a lot better for the XA1 than the remote that came with that player.

Second Generation Toshiba HD DVD players, the HD-A2 and HD-XA2 should be at software version 1.5. While this player is faster at loading discs, it is much slower at loading content from the HD DVD of DVE. You'll see the player stutter as you cycle through the test pattern options. It also takes much longer to load a test pattern once it is selected. It is slower to respond to materials in the disc because the processor in the player is slower. We don't believe that can be fixed in any software updates for the player.

Xbox 360 had an on-line software update on 9 May that should have fixed its problems in playing the HD DVD of DVE. We've confirmed the update has worked for a number of people.

Power DVD:

We are aware of the navigation problems in a recent version of Power DVD. Microsoft has offered assistance to Power DVD to fix it. It would probably also help if anyone with a registered copy of the program, who is having trouble playing the HD DVD of DVE, to send a note to Power DVD requesting their assistance.

From what we've been told the problem can be fixed in a software upgrade. We just don't know how soon it will be available.

HD DVD Q&A

Q: The HD DVD side of DVE won't play on my Panasonic player. What's wrong?

A: Panasonic doesn't support the HD DVD format so it is highly unlikely that any Panasonic DVD player will play and HD DVD. (If that changes we'll let you know in the HD DVD player section of these notes.)

More important there is often confusion on the part of consumers about DVD players that up convert standard definition DVD to high definition scan rates. One of those players is even call a high definition DVD player, even though it doesn't play any kind of a disc with HD content or have the HD DVD logo.

Q: The HD DVD of DVE doesn't play in my HD DVD player. What's wrong?

A: We are providing brief notes on what we know about individual players in the HD DVD Player section of these notes. Additional information can be found on the official HD DVD web sit <http://www.thelookandsoundofperfect.com/>

Q: There aren't a lot of instructions on how to use the test patterns in the HD side of the disc. How do we get started?

A: When we created the HD DVD of DVE we were trying to get the product out on the market as fast as we could. (It took about nine months.) We decided it would be easier to limit the scope of this edition of DVE to Test and Demonstration Materials, relying on the SD version of the program for tutorials. We made it "easy" on ourselves by including the SD version of the program in the HD package as a combination SD and HD disc.

In the HD program we put some general comments in the text in the menu system that goes along with each pattern and then provided additional details in the manual. There is a note in your package that tells you to go to <http://videoessentials.com/dvehd/index.html> too get a copy of the manual. Since the package also has the SD side we've also provided a link to the SD manual. <http://www.videoessentials.com/Manuals.php?referrer=NTSC>

In the program notes we tell you about "tricks" to be learned in finding your way around the disc. As an example, in the HD DVD disc once a particular pattern is on screen you can hit the Top Menu button to bring the text back up on screen. Hit it again and the text goes away. This makes it easy to get to the basic description of the test pattern.

In reality we needed pages of spaces to describe the use of some patterns. That's where the manual comes in. It's illustrated so you can see more about using the patterns.

The most important thing we can say is that properly setting up your audio and video system is going to take a bit of time. With practice you'll be able to easily do touchups but it won't happen until you go through the procedure step by step the first time.

Q: I've been told that the color filters included with DVE don't work with some types of displays. What are the exceptions and how do we recognize them?

A: It's easy to tell you why there exceptions and much more difficult to tell you how to recognize them. In some of the display device consulting JKP has done we've taught manufacturers how to get the right colors of red, green and blue, to meet video system specifications for color, that requires the addition of the other two colors to the third to pull the third to a point where it belongs. So as much as the red might look red it has green in blue in it to make it the right color of red. The filters take out the green and blue so what you see through them is not correct. The filters don't work when this kind of color addition is used to get the correct color. In all of our consulting we tell manufacturers they must provide a red, green and blue only capability in the set to make up for the fact that the filters won't work.

The best hope of consumers figuring out which sets belong in this category would come from people who know how the sets function. As an example most of the DLP sets from Samsung fall into the category of providing color correction. Unfortunately not all of them provide the red, green, and blue only capability.

Ordering Information

(Let's update this entire section for all categories so it also covers the HD DVD of DVE. I think you have enough information to do that.)

Additional Changes

Recent News:

Remove the April dates from the beginning of each statement. We'll just list them in the proper order.

Remove all May events.

Add the HD DVD press release. It can be dated in April and go at the bottom of the list as being the oldest entry in the list.

This is what was added on 3 June 2007

If I go to the NTSC index, or any of the other older versions of DVE we provide a list of all of the DVE products under the banner heading of Index. We need to do the same for the Index banner in the HD DVD section. Here are the locations where the HD DVD box needs to be added.

http://www.videoessentials.com/NTSC_index.php

<http://www.videoessentials.com/PALindex.php>

http://www.videoessentials.com/DVEPro_ProNTSC.php

http://www.videoessentials.com/DVEPro_IN_PAL.php

http://www.videoessentials.com/DVEPro_IN_WMV601.php

http://www.videoessentials.com/DVEPro_IN_WMV709.php

<http://www.videoessentials.com/DVEPro.php>

At this location all of the other boxes need to be added to the Index banner

http://www.videoessentials.com/DVE_HD.php

If I go to <http://www.videoessentials.com/DVEPro.php> and click on the Order in the banner it goes to the Extron Electronics order section of their web site.

<http://www.extron.com/product/product.aspx?id=videssentdvd>

Since Extron is no longer selling the disc the link should go to DVD International as follows

http://www.dvdinternational.com/pd_digital_video_essentials_professional_edition.cfm

At the top of the DVE Home web page there is another banner with the word Order in it.

It currently goes to <http://www.dvdinternational.com/>

Would you please change that to http://www.dvdinternational.com/cat_digital.cfm

In the D-Theater page http://www.videoessentials.com/DTheater_main.php in the order banner could you add a box to the pull-down menu that says "No Longer Available" You can keep the second box for the filters.

At http://www.videoessentials.com/DVE_HD_Album.php the link in Click [here](#) to view the

NTSC insert. goes to the HD Manual not the NTSC insert. The NTSC insert is located at <http://www.videoessentials.com/dvdinsert.php>

At <http://www.videoessentials.com/DVEPro.php> Digital Video Essentials: Professional Edition Officially Sponsored by Extron Electronics. Please take out the words "and Distributed".

At http://www.videoessentials.com/DVE_HD_Album.php the link to DVD International doesn't work. It should be <http://www.dvdinternational.com/dveregistration.cfm>

That's not what the insert sheet said and I noticed I got it wrong in the sheet I gave you. What I should have given you was <http://www.dvdinternational.com/dvehd>

It got changed and the DVD International site does the link.