For TV and DVD Player Manufacturers

Solution #1 TV and DVD Power Consumption Test

This solution measures TV and DVD players’ power while on Operation and Standby modes. The U8101A display tester sets patterns in white, grey or other required pattern screens for TV tests.

Agilent Solution for TV test
- U8101A Display tester
- 6811B AC power source/ power analyzer

Value Proposition
- Automated test
- 2-in-1 AC power source and analyzer

Solution #2 TV Reception and Functionality Test

This solution checks the TV’s multiple audio/video inputs/outputs connections and channel tuning functionalities. The scope is able to provide convenient TV signal trigger, and limits test functions to show Pass/Fail result.

Agilent Solution
- DSO3062A/54621A Oscilloscope

Value Proposition
- Direct TV trigger input
- Auto trigger Pass/Fail

Solution #3 TV Audio Fidelity and Video Accuracy Test

This solution verifies TV sound quality and video clarity with the multi-formatted U8101A Display Tester.

Agilent Solution
- U8101A Display tester
- 3062A/54621A Oscilloscope
- U2701A USB modular oscilloscope

Value Proposition
- Direct TV trigger input
- Auto trigger Pass/Fail
- Modular plug-in test cards
- Custom configuration
Solution #4 TV Color Clarity Test

This solution measures TV’s color clarity in terms of Lv, Cx and Cy, also known as the White Balance test. The U8101A display tester tunes the TV to achieve the right color balance.

Agilent Solution
- U2972A Data acquisition (DAQ) device
- U8101A Display tester

Value Proposition
- Low cost, high speed (0.5s)
- Automation

Application Note
TV Color Clarity Test - (Coming soon)

Solution #5 Accessories and Inverter Test

These solutions test TV Tuner functionality with configuration from various Agilent instruments, LCD panel inverter with modular DC power supply, and HDMI cable functionality and integrity by using the ENA RF network analyzer.

Agilent Solution
- U8101A Display tester
- N8973A Noise figure meter
- E4404B Spectrum analyzer
- DSO3202A Oscilloscope
- 34401A Digital multimeter
- 4278A RF LCR meter
- N6700B Modular power supply
- E5071C ENA RF network analyzer

Value Proposition
- Broad product coverage and integration
- Complete test solution
- High speed, high accuracy

Application Note
- Agilent Test Solutions for HDMI (5898-7169EN)
- Testing LCD Backlight Inverters using the Agilent N6700 Modular Power System (5898-4016EN)

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Solution #6 DVD Player Reception, Audio Fidelity, Video Accuracy, Color Clarity Test

This solution tests various video and audio output signal characteristics, such as video level, burst level, and audio signal frequency/level. The Agilent USB modular instruments simplify measurements with their scalable, space-saving modular form factor.

**Agilent Solution**
- U2781A USB modular instrument chassis
- U2701A USB modular oscilloscope
- U2751A USB modular switch
- Agilent VEE software

**Value Proposition**
- Direct TV trigger input on scope
- Automation test with modular scope + switch
- Smaller footprint with modular form factor – less bench space required

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Solution #7 DVD Recorder Reception, Audio Fidelity, Video Accuracy, Color Clarity Test

This solution focuses on video and audio output signal characteristic test, and requires tuning built-in digital and analog TV tuner as well as broadcasting signals.

**Agilent Solution**
- U2781A USB modular instrument chassis
- U2701A USB modular oscilloscope
- U2751A USB modular switch
- Agilent VEE software
- U8101A Display tester
- N5182A MXG vector signal generator

**Value Proposition**
- Direct TV trigger input on scope
- Automation test with modular scope + switch
- Smaller footprint with modular form factor – less bench space required

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Product specifications and appearance are subject to change without notice.
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