

Cobalt Digital BBG-1060-TG2-REF1 3G/HD/SD-SDI Signal Generator w CVBS Out/AES/AA

The all-new Cobalt® BBG-1060-TG2-REF1 3G/HD/SD-SDI Modular Dual Test Signal Generator with Bouncing Box Active Signal Indication, Bi-Level Sync Out, and Embedded ANC Data Signal Generator offers an easy to use, economical solution to providing comprehensive test signal packages to ensure validity of downstream baseband SDI systems. Two independent generator blocks can be set to offer dual test packages which can be simultaneously outputted.

In addition to numerous high-quality industry-standard test patterns and user static raster import, the BBG-1060-TG2-REF1 also provides ANC data generators that are designed to thoroughly check all standard ANC packages (including CEA 608/708 closed captioning, SMPTE 12M timecode, SMPTE 2020 HANC audio, and SMPTE 2010 SCTE 104 test packets). Custom DID/SDID packages can be added to test non-conventional or custom processing. An ingenious Stress-Test Generator can send intentional error-bearing packets that help flush out unexpected error handling problems in downstream systems – errors are discovered and remedied in testing and setup instead of when carrying on-air programming.

The BBG-1060-TG2-REF1 also provides AES and analog audio test tones (both using 24-bit data), and also provides waveform-based test data over its CVBS video output. A moving-box insertion can be enabled to serve as a dynamic raster confidence check. The BBG-1060-TG2-REF1 can use either of two frame references to provide an output that's synchronous with house ref, or use its internal ref timing to generate its own ref. A CVBS output offers bi-level reference output, line 21 CEA 608 closed-captioning and VITC waveform test sequences. Audio LTC test sequences are available over embedded, AES, and analog audio as well as via an RS-485 serial port.

Preset save/load allows saving custom settings while allowing one-button revert to factory settings. Layered presets allow invoking changes related only to a specific area of concern while not changing any other processing settings or aspects. The BBG-1060-TG2-REF1 uses a built-in web server that allows control/monitor over computers or smart devices from anywhere accessible over the web; no special apps or plug-ins are required for remote control (can also be remote-controlled using DashBoard™). The compact 1/3-rack size of the BBG-1060-TG2-REF1 allows 3 units to be installed in a 1RU space (an optional mounting tray is available that provides secure mounting of the units to a standard 19" frame).

Features

- Comprehensive test signal generation for SDI/analog video and baseband discrete audio in an easily integrated standalone unit
- Easy to use, intuitive, flexible, and far more economical than typical bench equipment
- Fully-independent dual generator blocks offer simultaneous output of user-configured test packages, or instant user selection between generators via output crosspoint
- Full array of test stimulus for SDI, including CEA608/708, packetized and waveform timecode, SCTE 104, and AFD
- Moving-box/motion insertion enable serves as an easy to use dynamic raster confidence check
- SDI import allows insertion of user static raster/patterns as an alternative addition to standard test pattern outputs
- DID/SDID authoring allows custom payloads to be written to specific DID/SDID locations as test packets for downstream systems
- Stress-Test generators provide illegal character, TRS, line length and other error cases that help flush out surprises in downstream error handling tolerance and robustness
- Full suite of output interfaces – SDI, CVBS, AES and analog audio
- Convenience RS-485 LTC output works with legacy systems and checks bi-phase LTC/SMPTE 12 correlation in mixed systems
- Low-power/high-density design – less than 18 Watts
- Compact footprint – up to 3 units in a 1RU space. Optional tray provides secure captive-fastener mounting of 3 units in a 1RU tray.
- Web-based user interface/remote control as well as front-panel pushbutton menu-based local control with LCD status/net ID. Also controllable using DashBoard remote control.
- Five year warranty