



## BG-SDITPG-G2

4K/1080P 12G-SDI VIDEO TEST PATTERN  
GENERATOR (12G/6G/3G/HD-SDI SUPPORT)

Introducing the BG-SDITPG-G2 12G/6G/3G/HD/SD-SDI Pattern Generator, the ultimate tool for SDI pattern generation and testing. This state-of-the-art device offers multi-format support for 12G/6G/3G/HD/SD and a wide range of test patterns, making it an essential tool for professionals in broadcasting, professional AV, and related industries.

The BG-SDITPG-G2 features a comprehensive set of video test patterns, including still and moving patterns, as well as audio support (SMPTE-291M) with up to 8 channels of AES-compliant audio at a 48KHz sample rate. With this generator, you can calibrate and test SDI-enabled video devices and displays with ease and precision.

Designed for intuitive operation, the BG-SDITPG-G2 comes equipped with four buttons, a rotary switch, and an LCD screen, ensuring effortless control and management. Its user-friendly interface allows for quick access to various features, making it a cost-effective solution for all your SDI pattern generation needs.



Whether you're working with NTSC, PAL, 720p, 1080i, 1080p, or even 4K2K resolutions, the BG-SDITPG-G2 supports a wide range of output resolutions and bit rates. It delivers reliable performance and supports 10-bit color space, ensuring accurate and high-quality signal testing.

## FEATURES



### MULTI-FORMAT SUPPORT

12G/6G/3G/HD/SD-SDI



### MULTI-PATTERN FUNCTIONALITY

Still and moving video test patterns



### AUDIO SUPPORT

Up to 8 channels of AES-compliant audio  
at 48KHz sample rate (SMPTE-291M)



### INTUITIVE CONTROLS

Four buttons, rotary switch, and LCD  
screen



### EASY SAVING

Save settings to memory



### PRESET SUPPORT

Supports preset modes for added  
convenience



# TECH SPECIFICATIONS

## Technical

Role of Usage	Pattern generator
SDI Standards	12G/6G/3G/HD/SD-SDI
Auto SDI Rate Detection	Yes
Supported Protocols	SMPTE 259M (270Mbps / 360Mbps)SMPTE 292M / HDTV (1.485 & 1.485/1.001Gbps)SMPTE 424/425M (2.97 & 2.97/1.001Gbps)SMPTE ST-2081 (5.94&5.94/1.001Gbps)SMPTE ST-2082 (11.88&11.88/1.001Gbps)
Video Bandwidth	11.88Gpbs
Data Rates	270 / 1483 / 1485 / 2967 / 2970 / 5934 / 5940 / 11868 / 11880 Mbps
Video Support	[12G] 4K2K@50/59.94/60[6G] 4K2K@23.97/24, 25, 30[3G] 1080p@50/59.94/60 (4:2:2)[HD] 720p50/59.94/60, 1080p24/30, 1035i50/59.94/60, 1080i50/59.94/60[SD] NTSC@59.94Hz, PAL@50Hz
SDI Signal Type	SMPTE-292M / 259M / 424M / ST-2081 / ST-2082
Output Impedance	75W
Cable (Belden 1694A) Equalization / Transmission	[12G-SDI] up to 50m (165ft) / [6G-SDI] up to 100m (330ft) / [3G-SDI] up to 200m (660ft)
Audio Support	Yes
PCB Stack-up	6-layer board [impedance control — differential 100W; single 75W]
Output	4x BNC [SDI]
BNC Connector	75W interlocking socket
[HD] Eye Pattern Characteristics	Amplitude: Within 800mV <10% Long time jitter <1.0 UI Rise overshoot: Less than 2% Timing jitter <1.0 UI Fall overshoot: Less than 2% Alignment jitter <0.2 UI



## Limited Product Warranty Terms

**Pro Line:** 5-year warranty from the date of purchase for AV/Broadcasting products bought on or after August 1, 2024.

**Essential Line:** 3-year warranty from the date of purchase for AV/Broadcasting products bought on or after August 1, 2024.

**Cables:** Lifetime Limited Product Warranty.

For complete warranty information, please visit [bzbgear.com/warranty](http://bzbgear.com/warranty).  
For questions, please call 1.888.499.9906 or email [support@bzbgear.com](mailto:support@bzbgear.com).

Pro Line Products  
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Essential Line Products  
**3-YEAR WARRANTY**  
Cables Products  
**LIFETIME WARRANTY**

