

3G-SDI Pattern Generator

Supported output resolution - Up to 1080p@60

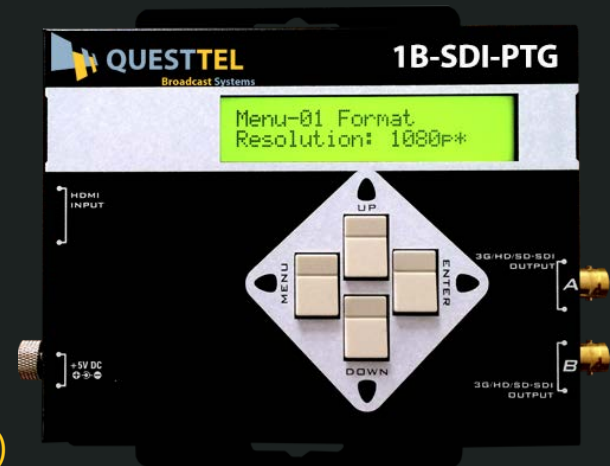
Bit Rate - Up to 3-Gbps

Resolution - 10bit

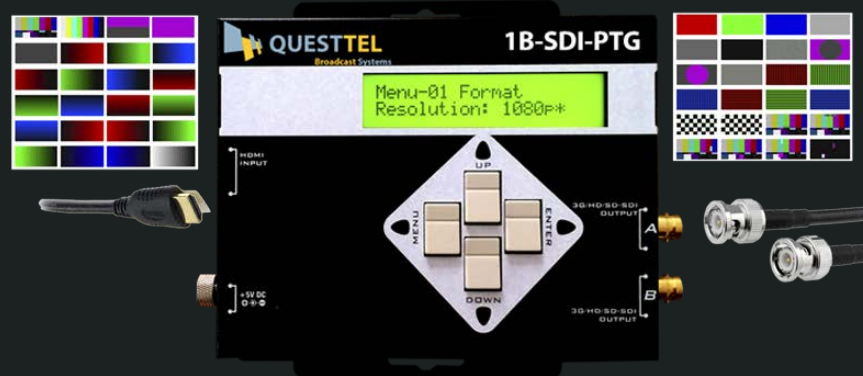
Many Various Video Patterns

ANC Data - EDH (RP-165), SMPTE 352M, SMPTE291M

Video Output - Triple SDI output (SDI, HD-SDI, 3G-SDI)



The 1B-SDI-PTG 3G-HD/SD SDI Pattern Generator - advanced SDI pattern generator with multi-format and multi-pattern support. Supports still and moving video test patterns, and provides a lot of useful features like audio SMPTE-291M. 1B-SDI-PTG Pattern Generator supports up to 8 channels of AES compliant audio with 48KHz sample rate. Multitasking of 1B-SDI-PTG comes from bypassing HDMI input which allows user to use more testing patterns for connected display or use 1B-SDI-PTG as SDI converter with 3G support. 1B-SDI-PTG was designed with 4 control buttons and LCM screen for easy track and control. This SDI Pattern Generator offers a simple and effective way to calibrate and test SDI video displays and other devices.



NTSC

3G 3G/HD/SD-SDI

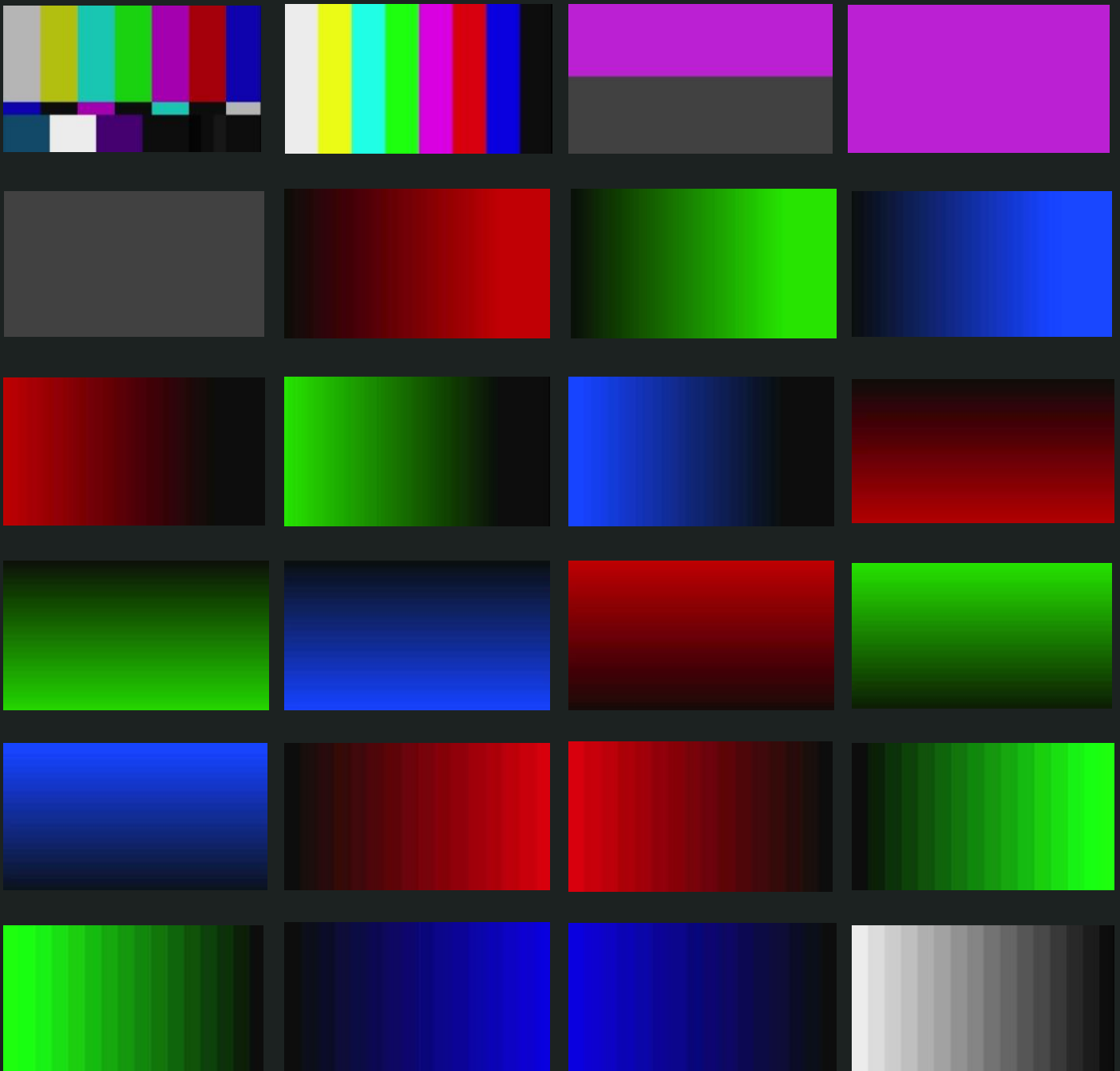
Full HD
1080p

PAL

SPECIFICATIONS

Role of usage	Pattern generator	
SDI standards	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)	
Video bandwidth	2.97Gpbs	
Data rates	143 / 270 / 1483 / 1485 / 2967 / 2970 Mbps	
Video support	[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	
HDMI bypass	Yes	
Output impedance	75Ω	
Cable (Belden 1694A) equalization / transmission	[3G-SDI] up to 60m (190ft) / [HD-SDI] up to 150m (500ft) / [SD-SDI] up to 300m (1000ft)	
Audio support	Yes	
PCB Stack-up	4-layer board [impedance control — differential 100Ω; single 50Ω]	
Input	None	
Output	2x BNC [SDI]	
BNC connector	75Ω interlocking socket	
HDMI connector	Type A [19-pin female]	
[HD] Eye pattern characteristics	Amplitude: Within 800mV <10% Rise overshoot: Less than 2% Fall overshoot: Less than 2%	Long time jitter <1.0 UI Timing jitter <1.0 UI Alignment jitter <0.2 UI
Mechanical		
Housing	Metal enclosure	
Dimensions [L x W x H]	Model	150 x 190 x 32mm [5.9" x 7.5" x 1.3"]
	Package	175 x 270 x 100mm [6.9" x 10.6" x 3.9"]
	Carton	450 x 370 x 300mm [1'6" x 1'3" x 1']
Weight	Model	660g [1.5 lbs]
	Package	1260g [2.8 lbs]
Fixedness	Interlocking power supply	
Power supply	5V 4A DC	
Power consumption	10 Watts [max]	
Operation temperature	0~40° C [32~104° F]	
Storage temperature	-20~60° C [-4~140° F]	
Relative humidity	20~90% RH [no condensation]	

BUILT-IN VIDEO PATTERNS



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