



Extensor VPG-70

Extensor Family Pattern Generator



Extensor Family

Pattern Generator

Extensor VPG-70: Pattern Generator

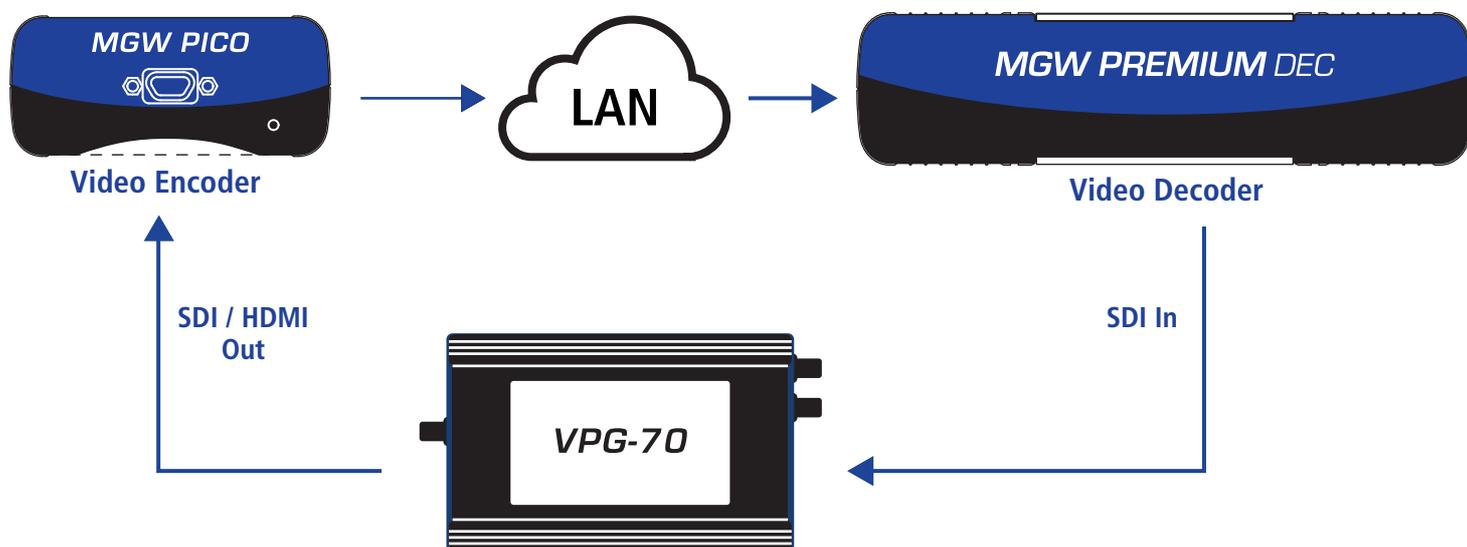
HD Pattern Generator Includes a User-friendly LCD Touchscreen Interface

Extensor VPG-70 generates standard and custom motion video and audio patterns for setup and performance testing of video processing equipment. With 24 standard video patterns, audio patterns based on 22 tones ranging from 100Hz to 24,000Hz and the ability to generate custom user motion video patterns via an integrated USB connection, VPG-70 provides the format and pattern sequences you need.

The compact Extensor VPG-70 includes a user-friendly LCD touchscreen interface. Outputs include 2 HDMI YUV/RGB outputs with up to 4 stereo channels and 2 SDI outputs with up to 8 stereo channels and payload ID options. DVI outputs are supported through an HDMI adaptor.

The color, speed and size of the bouncing box at the side of the screen are configurable. Up to 16 configurations may be saved, including time control sequences. A binary time code is displayed on-screen in the top left corner and an ancillary time code is available in SDI. Audio noise is synchronized with both the time code and the square box and generated every 1, 2, 4 or 8 seconds of the time code and/or when the square box changes direction.

Extensor VPG-70 can be configured to set one of its outputs as an input. This function will allow the use of Extensor VPG-70 as an analyzer, making it possible to check CRC, audio and video quality (PSNR) and to measure the latency of the complete video chain.



High Definition Video Pattern Generator

- VPG-70 generates video and audio patterns
- Custom patterns supported through the USB
- Friendly LCD touchscreen user interface
- DVI outputs supported through HDMI adapter



VPG-70

VIDEO

Inputs	1x SDI (SDI Compliance SMPTE-259M, SMPTE-292M, SMPTE-424M & SMPTE-425-A) USB 2.0 Genlock Ethernet
Outputs	2x HDMI (YUV/ RGB) / DVI (not included in the package) (Colorimetry: Studio BT601(SD) and Studio BT709(HD)) 2x SDI with Payload ID Option (Colorimetry: Studio and Computer BT601 and BT709) SDI Compliance: SMPTE-259M, SMPTE-292M, SMPTE-424M & SMPTE-425-A

AUDIO

	22 Audio tones from 100Hz to 24 000Hz
HDMI	Up to 4 stereo channels
SDI	Up to 8 stereo channels

RESOLUTIONS & FRAME RATES SUPPORTED

1080p at 23.97 / 24 / 25 / 29.97 / 30 / 50 / 59.97 / 60 frames per second
1080i at 50 / 59.94 / 60 frames per second
720p at 50 / 59.94 / 60 frames per second
480p, 576p, PAL, NTSC

ADVANCED FEATURES

Time-code	OSD Time-code Binary Time-code on the left-top corner Ancillary Time-code in SDI (LTC and DVITC) Drop frame option
KLV	Generate KLV data from an external file, which can then be synchronized at a frame accuracy or at a define timecode
Square box	Box bouncing on the sides of the screen Colour, Speed and size are configurable
Genlock	Yes (device synchronization)
Audio/Video Synchronization with timecode and square	Audio noise is generated every 1,2,4 or 8 seconds of time-code Audio noise is generated when square direction changes
Save Configuration / Sequence	Up to 16 different configurations with time control sequence Possibility to generate Format or Pattern sequences
Network	A TCP socket implemented in software allows to control device by Network
Video generator	High quality MPEG-2 decoder (2GB internal memory) Display video up to 1920 x 1080p60 4:2:2

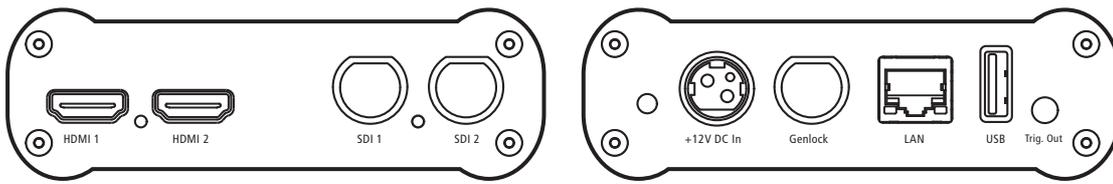
24 STANDARD PATTERNS & 12 USER PATTERNS

SMPTE EG 75%
Bars 100/0/100/0
Random
Unicolor
Gradient
Frame ramps
Gray Level
Blue Level

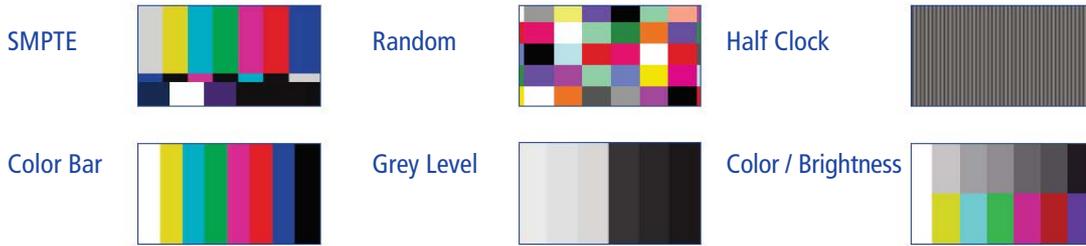
Green Level
Red Level
Black2White 8x8
Circles
SMPTE_HD_Bars
Path Equalizer
Grid
HLines

VLines
Bars 100% Red
Circle 4:3
Circle 16:9
Chroma Burst
Border lines
MBurst
Plug

Front & back panels

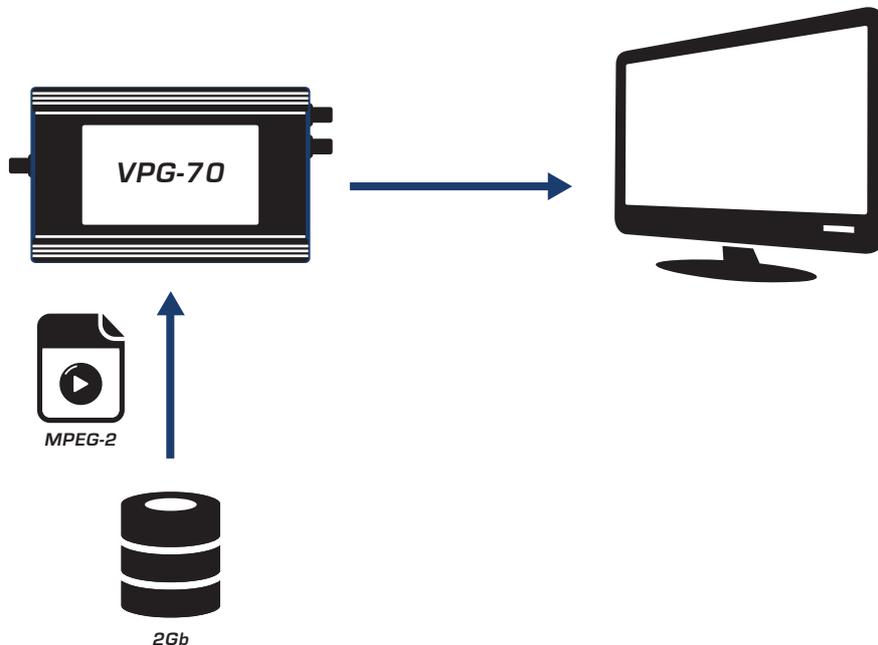


Still Pattern Examples



Motion Video Pattern

High quality MPEG-2 decoder (2GB internal memory) Display video up to 1920 x 1080p60 4:2:2



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