

BBG 6 A

BLACKBURST AND AUDIO GENERATOR

VERSA™
TOOLS

- Creates up to six blackburst outputs for genlocking
- Generates Color Bars and balanced/unbalanced audio signals
- Compact 1U high, quarter rack width metal enclosure
- Versatile mounting options including rack, under-desk, or projector mounts
- LED power indicator
- External international power supply
- NTSC and PAL compatible



The Extron BBG 6 A Blackburst Generator is designed for use in broadcast, production, and presentation environments that require reference signals for genlocking video systems. It is also useful for system troubleshooting and alignment as it features a Color Bars and audio test signal generator.



Extron® Electronics

www.extron.com

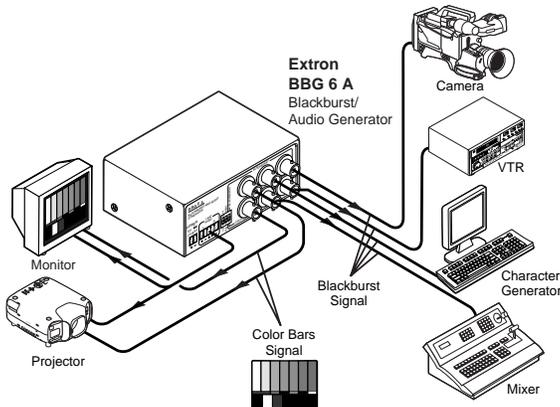
DESCRIPTION

The Extron **BBG 6 A** Blackburst and Audio Generator offers six broadcast quality, NTSC or PAL blackburst output signals, allowing a variety of video equipment to be genlocked to a common reference signal. The output blackburst signal consists of three reference signal components: vertical sync, horizontal sync, and color burst. The first two outputs can also output NTSC SMPTE Color Bars or PAL full-field Color Bars test patterns, selectable via a DIP switch. Additionally, the BBG 6 A comes with a 1 kHz audio generator with balanced or unbalanced audio on captive screw connectors. Part of the VersaTools™ line of products, the BBG 6 A is housed in a 1U high, quarter rack width metal enclosure, making it ideal for installation in small spaces or portable field use.

FEATURES

- **Broadcast quality blackburst outputs** – Six outputs on female BNC connectors for creating blackburst reference signals to feed into genlockable devices
- **Color bar generator** – Two of the blackburst outputs also provide standard SMPTE Color Bars for NTSC and full-field 8-bar for PAL, selectable via DIP switch for easy troubleshooting and alignment
- **Audio test signal** – Built-in audio generator offers 1kHz, balanced/unbalanced output on captive screw connectors for simplified audio troubleshooting. The output level is switchable from +4 dBu to -10dBV via DIP switch
- **Compact metal enclosure** – 1U high, quarter rack width rugged, metal enclosure
- **Versatile mounting options** – Rack, under-desk, and projector-mountable
- **Power indicator** – LED for easy troubleshooting
- **Power supply** – 12VDC external international desktop power supply included for worldwide and daisy chaining capability

APPLICATION DIAGRAM



SPECIFICATIONS

BLACKBURST OUTPUT

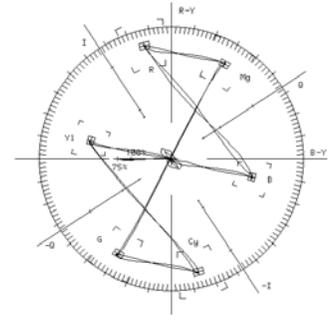
Number/signal type	6 blackburst (two can output Color Bars)
Connectors	6 BNC female
Standards	RS-170A standard for NTSC 3.58, CCIR 624-4 standard for PAL
Impedance	75 ohms
Sync level	40 IRE for NTSC, 43 IRE for PAL
Color burst level	40 IRE for NTSC, 43 IRE for PAL
Setup level	NTSC, 7.5 IRE; PAL, 0 IRE
Tolerance for all levels.....	±3%
Subcarrier level.....	NTSC 3,579,545 ±3 Hz / PAL 4,433,618 ±3 Hz

COLOR BAR OUTPUT

Number/signal type	2 Color Bars, switchable, standard SMPTE bars for NTSC, full-field 8-bar for PAL
Connectors	2 BNC female
Standards	NTSC 3.58, PAL
Impedance	75 ohms
Sync level	40 IRE for NTSC, 43 IRE for PAL
Color burst level	40 IRE for NTSC, 43 IRE for PAL
Setup level	NTSC, 7.5 IRE; PAL, 0 IRE
White level	100 IRE
Tolerance for all levels.....	±3%
Subcarrier levels	NTSC 3.579545 ±3Hz / PAL 4.433618 ±3 Hz

The Vector scope measurement plots the broadcast quality Color Bars output of the BBG 6 A.

APL = 40.8%
 System Line L 22 F1 Angle (deg) 0.0
 Gain x 1.000
 0.000 dB
 525 Line NTSC
 Setup 7.5%



AUDIO OUTPUT

Number/signal type	1 set (L and R) of stereo sine waves, bal. or unbal.
Connectors	(1) 3.5 mm captive screw connector, 5 pole
Impedance	50 ohms unbalanced, 100 ohms bal.
Signal level	Selectable: professional level, +4dBu (1.23V) bal.; or consumer level, -10dBV (316mV) unbal.
Tolerance for all levels.....	±3%
Signal frequency.....	1 kHz
NOTE: 0dBu = 0.775 volts (RMS)	

GENERAL

Power	100VAC to 240VAC, 50/60 Hz, 2.5 watts, external, autoswitchable to 12VDC, 1 A power supply. Product requires 0.2 A max.
Rack mount	Yes
Enclosure type	Metal
Enclosure dimensions	1.7" H x 4.3" W x 3.0" D 4.3 cm H x 10.9 cm W x 7.6 cm D
Product weight.....	0.4 lbs (0.2 kg)
Shipping weight.....	3 lbs (1.4 kg)
Listings	UL, CUL
Compliances.....	CE, FCC Class A, VCCI, AS/NZS, ICES
MTBF	30,000 hours
Warranty	3 years parts and labor

Model	Part Number
BBG 6 A	60-535-01

Specifications are subject to change without notice.



Extron Electronics, USA
 1230 South Lewis Street
 Anaheim, CA 92805
 800.633.9876 714.491.1500
 FAX 714.491.1517

Extron Electronics, Europe
 Beeldschermweg 6C, 3821 AH Amersfoort
 The Netherlands
 +800.3987.6673 +31.33.453.4040
 FAX +31.33.453.4050

Extron Electronics, Asia
 135 Joo Seng Rd. #04-01
 PM Industrial Bldg.
 Singapore 368363
 +65.6383.4400 FAX +65.6383.4664

Extron Electronics, Japan
 Daisan DMJ Bldg. 6F, 3-9-1 Kudan Minami
 Chiyoda-ku, Tokyo 102-0074
 Japan
 +81.3.3511.7655 FAX +81.3.3511.7656