

BBG 6 A

Blackburst, Color Bars, and Audio Generator



FEATURES

- **Broadcast quality blackburst reference signals** — Six outputs on female BNC connectors for creating blackburst reference signals to feed into genlockable devices.
- **Broadcast quality SMPTE color bars for NTSC and full-field 8-color bars for PAL** — Two of the blackburst outputs also provide standard SMPTE color bars for NTSC and full-field 8-bars for PAL, selectable via DIP switch for easy troubleshooting and alignment.
- **Integrated 1 kHz audio tone generator** — Built-in audio generator offers 1 kHz, balanced or unbalanced output on captive screw connectors for simplified audio troubleshooting. The output level is switchable from +4 dBu to -10 dBV via DIP switch.
- **Selectable +4 dBu or -10 dBV audio output**
- **NTSC/PAL switchable**
- **Power indicator LED for easy troubleshooting**
- **1U, quarter rack width metal enclosure**
- **Rack, under-desk, and projector-mountable**
- **External universal power supply included**, part # 70-055-01 — Provides worldwide power compatibility

DESCRIPTION

The Extron **BBG 6 A** Blackburst, Color Bars, 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 blackburst signal consists of three reference signal components: vertical sync, horizontal sync, and color burst. The first two outputs can also provide broadcast quality NTSC SMPTE Color Bars or PAL full-field Color Bars test patterns, selectable via a DIP switch. Additionally, the BBG 6 A includes 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, quarter rack width metal enclosure, making it ideal for installation in equipment racks as well as small spaces or portable field use.

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%



| | |
|-------------------------------|---|
| 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..... | 7.5 IRE (NTSC) or 0 IRE (PAL) |
| Tolerance for all levels..... | ±3% |
| Sub carrier level..... | NTSC: 3.579545 ±3 Hz, PAL: 4.433618 ±3 Hz |

COLOR BARS 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 ±3 Hz, PAL 4.433618 ±3 Hz |

AUDIO OUTPUT

| | |
|-------------------------------|--|
| Number / Signal type..... | 1 set (L and R) of stereo sine waves, balanced or unbalanced |
| Connectors..... | (1) 3.5 mm captive screw connector, 5 pole |
| Impedance..... | 50 ohms unbalanced, 100 ohms balanced |
| Signal level..... | Selectable: professional level, +4 dBu (1.23 V) balanced; or consumer level, -10 dBV (316 mV) unbalanced |
| THD..... | 0.1% |
| Tolerance for all levels..... | ±3% |
| Signal frequency..... | 1 kHz |

GENERAL

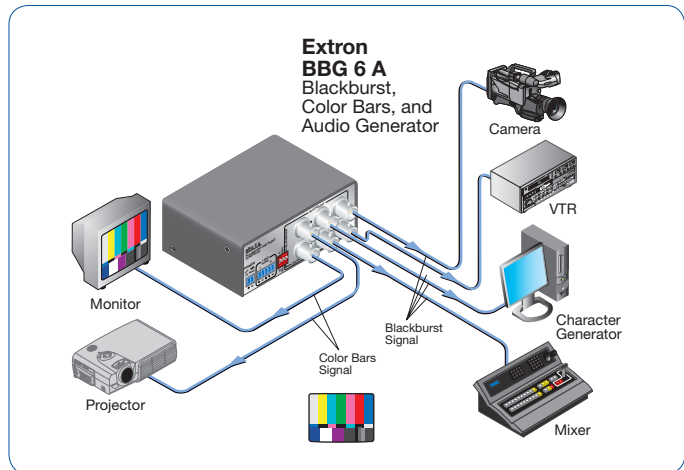
| | |
|--------------------------------|---|
| External power supply..... | 100 VAC to 240 VAC, 50/60 Hz, 2.5 watts, external, to 12 VDC, 1 A, regulated power supply |
| Power input requirements..... | 12 VDC, 0.2 A (max.) |
| Rack mount..... | Yes, with optional rack shelves (See optional accessories) |
| Enclosure type..... | Metal |
| Enclosure dimensions..... | 1.7" H x 4.3" W x 3.0" D (1U high, quarter rack wide) 4.3 cm H x 10.9 cm W x 7.6 cm D (Depth excludes connectors) |
| Product / Shipping weight..... | 0.4 lbs (0.2 kg) / 3 lbs (2 kg) |
| Warranty..... | 3 years parts and labor |

Note: All nominal levels are at ±10%. Specifications are subject to change without notice.

SPECIFICATIONS

BLACKBURST OUTPUT

| | |
|---------------------------|---|
| Number / Signal type..... | 6 blackburst (two can be switched to color bars) |
| Connectors..... | 6 BNC female |
| Standards..... | RS-170A standard for NTSC 3.58, CCIR 624-4 standard for PAL |



MODEL

| | | |
|----------------|--|----------------------------|
| BBG 6 A | VERSION DESCRIPTION Blackburst, Color Bars & Audio | PART # 60-535-01 |
|----------------|--|----------------------------|

OPTIONAL ACCESSORIES

| MODEL DESCRIPTION | PAGE | PART # |
|---|----------|-----------|
| RSU 129 1U 9.5" Deep Universal Rack Shelf Kit | page 819 | 60-190-01 |
| RSF 123 1U 3.5" Deep VersaTools® Rack Shelf Kit | page 819 | 60-190-20 |
| RSB 129 1U 9.5" Deep Basic Rack Shelf | page 820 | 60-604-01 |
| RSB 123 1U 3.5" Deep Basic Rack Shelf | page 818 | 60-604-20 |
| MBU 123 VersaTools® Mini Under-Desk Mount Kit | page 815 | 70-212-01 |

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