

**BG4 / BG5 NTSC Black Burst  
& BG4CB / BG5CB NTSC/PAL  
Black Burst & Color Bar  
Generators**

**Manual Version 1.01**



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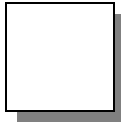
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## **BG4 / BG5 Black Burst & BG4CB / BG5CB Black Burst & Color Bar Generators**

Congratulations on your purchase of the Burst Electronics Model BG4 / BG5 Black Burst or the BG4CB / BG5CB Black Burst and Color Bar generator. The BG4 and BG5 series video generators continue our line of low cost, high quality video synchronization generators for the broadcast professional.

### **BG4**

Key features include four (4) synchronous composite video outputs, NTSC video standard. 1kHz tone is also a standard feature either as Balanced or Unbalanced (configured at the factory). S-video is also an option that can be configured by the factory.

### **BG5**

Key features include four (4) synchronous composite video outputs, NTSC video standard. S-video is also an option that can be configured by the factory.

### **BG4CB**

The BG4CB is a more versatile device. Key features include synchronous video outputs. This model can be switched between NTSC or PAL, and selection between Black Burst and Full Field Color Bars. 1kHz tone is also a standard feature either as Balanced or Unbalanced (configured at the factory). S-video is also an option that can be configured by the factory.

### **BG5CB**

The BG5CB is a more versatile device. Key features include synchronous video outputs. This model can be switched between NTSC or PAL, and selection between Black Burst and Full Field Color Bars. S-video is also an option that can be configured by the factory.

### **Operation**

The BG4 and BG5 are simple to use. Connect the unit to the included 12Vdc power supply and push the Power switch up. The green LED on the front of the unit lights up, indicating power. The video output connectors and tone connector (BG4 and BG4CB) are immediately active when the unit is powered.

The BG4CB and BG5CB is just as simple to use. Connect the unit to the included 12Vdc power supply and push the Power switch up. The green LED on the front of the unit lights up, indicating power. The video output connectors and tone connector (BG4 and BG4CB) are immediately active when the unit is powered. The “Bars Black” switch allows the end-user to select either Full Field Color Bars (up) or Black Burst (down). An internal jumper labeled SW3 will allow the end-user to select either NTSC (center to interior of unit) or PAL (center to exterior of unit).

**Video Outputs** – The BG4 / BG5 and BG4CB / BG5CB come standard with BNC connectors for composite video. If Y/C video is required, we can convert one or all connectors to MiniDIN (typical S-Video) connectors.

**Audio Outputs** - The BG4 and BG4CB come standard with a RCA connector with stereo unbalance tone. Balanced tone with a mini-XLR connector is available upon request.

## Specifications

Size: 4.1W x 1.5H x 5.5D inches

### BG4 and BG5

Power: 12Vdc @ < 400mA (120Vac 60Hz – 12Vdc adapter).

Video Outputs (composite): BNC; 1 Vp-p w/ 75 Ohms  
(short circuit protected).  
(S-Video): MiniDIN; 1 Vp-p w/ 75 Ohms  
(short circuit protected)  
Audio Output (BG4 only): RCA; 2 Vp-p 1kHz (+/- 200Hz)  
mini-XLR (optional); Balanced  
2 Vp-p 1kHz (+/- 200Hz)

### BG4CB and BG5CB

Power: 12Vdc @ < 200mA (120Vac 60Hz / 240Vac 50Hz – 12Vdc power supply).

Video Outputs (composite): BNC; 1 Vp-p w/ 75 Ohms  
(short circuit protected)  
(S-Video): MiniDIN; 1 Vp-p w/ 75 Ohms  
(short circuit protected)  
Audio Output RCA; 2 Vp-p 1kHz (+/- 200Hz)  
mini-XLR (optional); Balanced  
2 Vp-p 1kHz (+/- 200Hz)

