Balanced Video

The VAC **20-550-001** Balanced Line driver provides protection against ground loops and RF interference for long cable runs. The 20-550-001 driver works in conjunction with the 20-550-002 receiver or the 20-550-003 Driver/Receiver. The driver converts a standard unbalanced baseband video signal to a balanced video signal that is transmitted over two coax cables. The 12V AC wall transformer provides isolated power to the Brick to control ground loops.

The VAC **20-550-002** Balanced Line receiver provides protection against ground loops and RF interference for long cable runs. The 20-550-002 receiver works in conjunction with the 20-550-001 driver or the 20-550-003 Driver/Receiver. The receiver converts a balanced video signal (from two coax cables) into unbalanced baseband video. The 12V AC wall transformer provides isolated power to the Brick to control ground loops.

The VAC **20-550-003** Balanced Line driver/receiver provides protection against ground loops and RF interference for long cable runs. The 20-550-003 driver/receiver works in conjunction with another 20-550-003 driver/receiver, a 20-550-001 driver or a 20-550-002 receiver. The 20-550-003 converts unbalanced baseband video to/from balanced video. Two coax cables are used for the balanced video. The 12V AC wall transformer provides isolated power to the Brick to control ground loops.

Balanced Video

	Driver - PN: 20-550-001	Receiver - PN: 20-550-002
Frequency Response	DC - 120MHz @ -3dB (1Vpp input signal)	DC - 120MHz @ -3dB (1Vpp input signal)
Input Signal Level	0.5 - 2.0Vpp (within -1V to +1V range from ground)	0.5 - 2.0Vpp (within -1V to +1V range from ground)
Input Impedance	75 Ohms	75 Ohms (per input connector)
Input Coupling	DC	DC
Input Connector(s)	BNC (total of 1)	BNC (total of 2)
Output Connectors	BNC (total of 2)	BNC (total of 1)
Configuration	Standard input, 2 balanced outputs	2 balanced inputs, 1 unbalanced output
Gain	Unity (both balanced lines)	Unity
Output Series Impedance	75 Ohms (per output connector)	75 Ohms

Balanced Video Driver/Receiver PN: 20-550-003

	Driver:	Receiver:
Frequency Response	DC-120MHz @ -3dB (1Vpp input signal)	DC-120MHz @-3dB, both sections (1Vpp input signal)
Input Signal Level	0.5 - 2.0Vpp (within -1V to +1V range from ground)	0.5 - 2.0Vpp (within -1V to +1V range from ground)
Input Impedance	75 Ohms	75 Ohms (per input connector)
Input Coupling	DC	DC
Input Connector(s)	BNC (total of 1)	BNC (total of 2)
Output Connectors	BNC (total of 2)	BNC (total of 1)
Configuration	Standard input, 2 balanced outputs	2 balanced inputs, 1 unbalanced output
Gain	Unity (both balanced lines)	Unity
Output Series Impedance	75 Ohms (per output connector)	75 Ohms

Balanced Video General Specifications

Package	2.2" x 4.4" x 0.65"
Mounting	Two threaded 6-32 inserts
Power	Internal linear supply; 10-24V AC, 12-28V DC; < 100mA input current
Power Status	Power LED indicator
Power connector	2-pin terminal block header

Video Tester - VT-1

The new **VT-1 Video Tester** from VAC is an accurate, low-cost, easy-to-use tester for measuring composite video gain and equalization levels. The VT-1 provides a simple visual display that allows the user to determine gain and EQ levels at a glance. The VAC Video Tester meets broadcast requirements for accuracy yet is affordable for Pro A/V and security installers and integrators.

Visual Indicators:

- Power LED — ON when unit is switched on
- NTSC — ON when tester detects a valid NTSC video signal (based on sync pulse timing)
- PAL — ON when tester detects a valid PAL video signal (based on sync pulse timing)
- GAIN — Series of five LEDs that indicate signal level based on sync tip amplitude
- EQ — Series of five LEDs that indicate signal equalization based on color burst amplitude

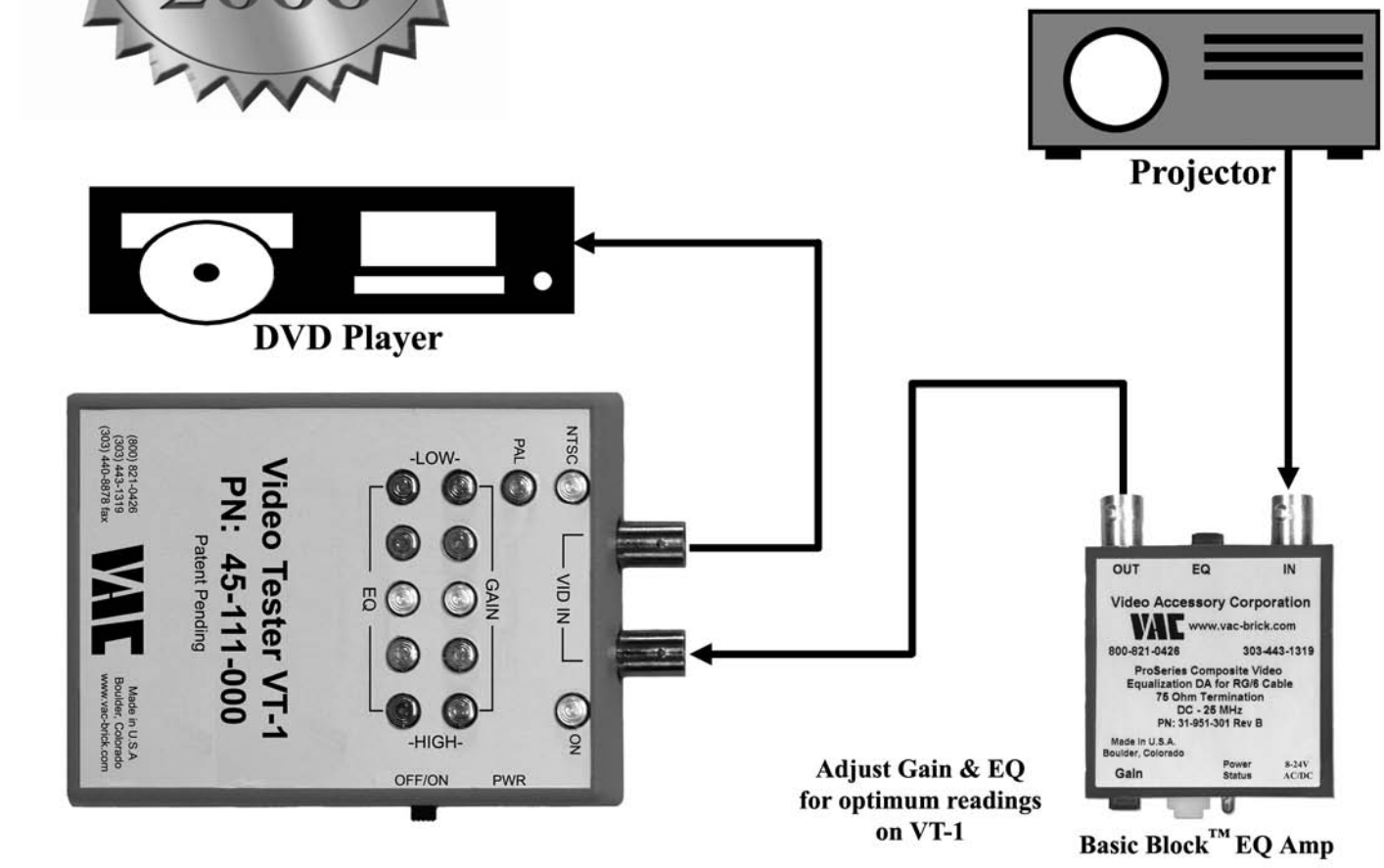
Other Features:

- Loop-thru Input — Second video connector allows the VT-1 to be connected in-line with the video system or to a separate monitor. A 75 Ohm terminator is included to terminate the loop-thru connector when it is not used.
- Battery Operation — The VT-1 will operate from an internal 9V battery (not included) or from an optional wall transformer. The VT-1 will operate for up to 8 hours continuous use on a 9V alkaline battery.
- Compact Size — The VT-1 measures 4.5" (L) x 3.25" (W) x 1.5" (D). Small enough to hold in one hand and to easily fit into an installers' tool kit.

Also Available:

- 12V AC Wall Transformer; eliminates need for 9V battery. PN: 55560
- Padded carrying case; holds VT-1 and 75 Ohm terminator. PN: 00601

Typical application using VT-1 to set Gain and EQ levels from a Basic Block EQ Amplifier



VB/BBG-3

BBG-2

VAC's line of Black Burst Generators provide the critical link for a video system's timing reference. Among the many possible applications, VAC's rugged and reliable series of generators can be used to synchronize multiple video devices.

VB/BBG-3 (# 135-0-001):
The VB/BBG-3 black burst generator provides four black burst outputs guaranteed to meet RS-170A specifications including SC/H phase, frequency accuracy, rise times and amplitudes from the moment the unit is first powered on. The popular VAC Brick® package makes it ideal for field and desktop video installations.

BBG-2 (# 135-0-005):
The BBG-2 black burst generator provides nine black burst outputs guaranteed to meet RS-170A specifications including SC/H phase, frequency accuracy, rise times and amplitudes from the moment the unit is first powered on. Nine outputs eliminate the need for a black burst distribution amplifier or phase error inducing loop-thru.

Specifications

	VB/BBG-3 (# 135-0-001)	BBG-2 (# 135-0-005)
Black Burst Outputs	4	9
Burst Frequency	3.579545 MHz ±10Hz (trimmable)	3.579545 MHz ±10Hz (trimmable)
Burst Amplitude	40 IRE pp trimmable	40 IRE pp trimmable
Sync Tip Level	-40 IRE	-40 IRE
Blanking Level	0 IRE	0 IRE
Setup Level	+7.5 IRE	+7.5 IRE
SC/H Phase	±10°	±5° internally trimmable ±40°
Output Impedance	75 Ohms	75 Ohms
Connectors	BNC	BNC
Power Requirements	12-24V AC or 12-24V DC ungrounded either polarity, <100mA	120V AC, <250mA
Dimensions (including connectors)	3.00"W x 0.65"H x 2.75"L	4.25"W x 1.75"H x 12"L
Shipping Weight (with wall transformer)	2 lbs	4 lbs