



## VAGC-100 and VAGC-200

### Video Automatic Gain, EQ and Chroma Distribution Amplifier

- **Automatic video Gain** adjustment to **1 Volt peak to peak** with 100 IRE maximum luminance peak.
- **Automatic flatness Equalization** for more than **4000 feet of Belden 8281** and more than **3000 feet of Belden RG59U** to within **+/- 0.05dB at 3.58MHz**.
- **Supports two switch selectable cable types** ( Belden 8281 and RG59U typical ).
- **Automatic chrominance adjustment +/- 9 dB** to broadcast specifications. (VAGC-200 only)
- High impedance loop-through input and up to **8 outputs** with source terminations of 75 Ohms.
- Equalizers for other cable types are available.
- **Back-porch clamp** with up to **60 Vp-p hum cancellation**.
- Video present LED indicator.
- The unit automatically compensates for signal degradation for Satellite, Cable TV Head-ends, ENG, Off-air Signals and roll-off due to coaxial cable.



**VAGC-100 Portable Stand-alone Model**

#### **Model VAGC-200 Modular Plug-in**

- **Plugs into the MULTIDYNE UTIL-200-2RU-AC**, 10 module, 8 output tray with 2 redundant power supplies.
- 85 - 265 VAC Auto-ranging Power Supply and 48 VDC Power Supply available for all trays.
- **Fully compatible with the Grass Valley™ 8500/8800/8900 Trays.**

#### **Model VAGC-100 Portable Stand-alone or Rack-mount**

- Stand-alone with L x W x H, 5 1/2" by 5 1/2" by 1 3/4" or triple rack-mount in 1 3/4" by 19" rack space with 5 1/2" depth.
- Operates from **110 and 220 VAC** (optional front panel switch) and from a **12V Battery** or **external 12 VDC**.

#### **SPECIFICATIONS**

Input video level range.....	0.35 to 2 Volts
Gain accuracy automatic .....	+/-0.05 dB
Chrominance burst amplitude accuracy.....	+/-0.05 dB
Clamp type .....	Back-porch, sampling, feedback
Equalization Max. Range 8281 type cable.....	> 4000 ft automatic
Equalization Max. Range RG-59U type cable.....	> 3000 ft automatic
Chrominance adjustment range.....	> +/- 9 dB
Differential Gain .....	< 0.2 %
Differential Phase .....	< 0.2 °
Line or Field Tilt .....	< 0.5 %
Signal to Noise .....	> 72 dB
Common Mode Rejection (60 Hz) .....	> 66 dB
Return Loss, to 5 MHz .....	> 42 dB
Power consumption, MAX. ....	< 2 Watts

#### **ORDERING INFORMATION:**

VAGC-200, Modular Plug-in Video Automatic Gain, EQ and Chroma Distribution Amplifier for the UTIL-200 Tray.

VAGC-100, Stand-alone Video Automatic Gain and EQ Distribution Amplifier.

Options: -RMT, Triple Rack-mount Kit for the VAGC-100; -110/220SW, 110 and 220 VAC Front Panel Selector Switch.



In the USA and Canada call **1-(800)-4TV-TEST**  
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