WPG & EQ

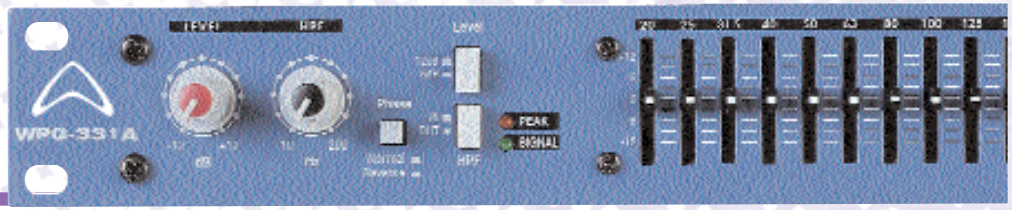
WPG 202
WPG 212
WPG 331
WPG 332

EQ 215
EQ 31A

Wharfedale Pro

THE WPG

WPG 331

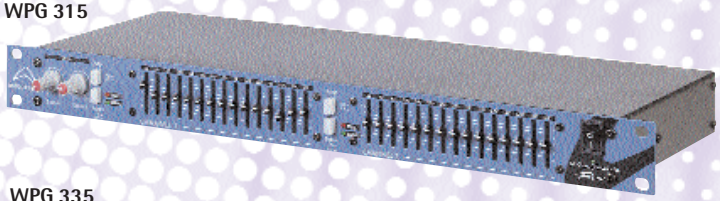


The WPG series of Graphic Equalizers are high quality units suitable for stage, club and studio use. Using proven circuitry they are straightforward to use, reliable in operation and capable of excellent performance. The range consists of the WPG 331 Single Channel Graphic Equaliser, the WPG315 Two Channel Graphic Eqauliser, the WPG 335 Dual 31 Band Graphic Equaliser and the WPG 202 Two Channel Electronic Crossover. These models fit standard 1U, 19" (482mm) racks. The units are housed in steel cases suitable for mounting in professional flight cases.

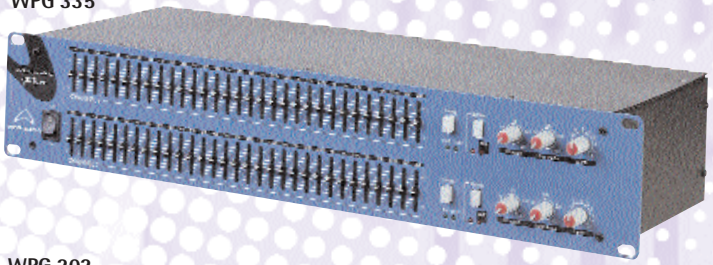
The WPG 331 is a dual 31 band graphic equaliser designed to provide accurate room equalisation, feedback control and system tone control. It can be used in balanced or unbalanced mode for any kind of system set up. The WPG 331 features variable high pass filters from 10Hz to 250Hz (18db octave) and variable low pass filter from 3KHz to 40KHz (18dB octave).

The Wharfedale Pro WPG-335 Dual 31 band graphic equalizer has been designed to provide accurate room equalization, feedback control and system tone control. The professional quality and low noise design guarantees the finest in sound quality and overall electronic performance. The WPG 335 is a system design product. You can use it either in a balanced or unbalanced mode for any kind of system set up.

WPG 315



WPG 335



WPG 202

WPG-331 Single Channel Graphic Equalizer Features:

- 31 bands of equalisation, Third Octave at standard ISO frequencies
- Balanced inputs and outputs with XLR and jack connectors
- Constant "Q" multi-feedback bandpass filter circuits
- Very low THD and background noise levels
- Signal level and Peak level LED indicators
- Variable High-Pass Filter 10 Hz to 200Hz
- Phase reverse switch
- ± 6dB or ±12dB operating level switch
- EQ Bypass switch

WPG-315 two Channel Graphic Equalizer Features:

- As WPG-331 except 15 equalisation bands per channel and without high pass filter.

WPG-335 Dual Channel Equaliser 31 Band Features:

- XLR , 1/4" phone and RCA connectors
- Selectable 6 or 12dB boost or cut.
- Balanced and Unbalanced inputs and outputs.
- Constant Q filter design.
- Dual 31 bands of equalization.
- Variable high pass filter from 10Hz to 250Hz.18dB/Octave.
- Variable low pass filter from 3KHz to 40KHz.18dB/Octave.
- Input level control from -∞ to +6dB
- Peak indicator LED.

WPG-202 Two Channel Electronic Crossover Features:

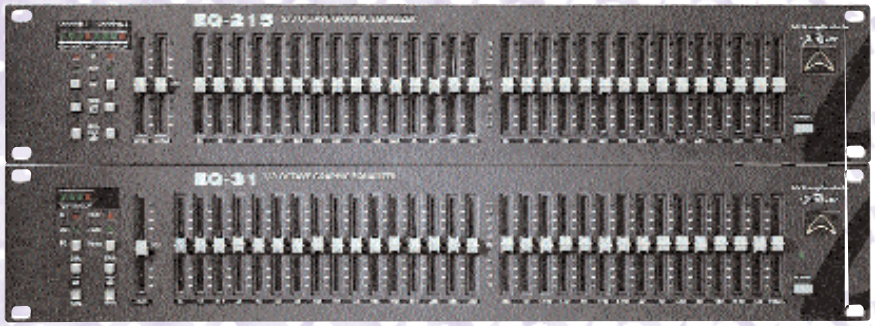
- Balanced inputs and High Band Low Band outputs with XLR & jack connectors
- Peak level LED indicators
- High Pass 40Hz and low pass 15kHz filter circuits
- Variable controls for gain and frequency adjustment
- Constant directivity horn EQ
- Stereo operation 2 way; mono operation 3 way

THE EQ

The EQ series of Graphic Equalisers comprises two models; the EQ 215 (dual 15 band) and the EQ 31 (single 31 band). The units are housed in a 2U steel chassis. High definition constant-Q equalisers with a high slew rate guarantee the finest sound quality for use in studio recording or sound reinforcement applications. Both models feature center-detented high resolution 45mm faders for maximum user convenience as well as _ inch TRS and XLR inputs and outputs. EQ Bypass switches use high quality relays to create a direct - wired signal path assuring the audio will not be lost even in the event of equipment or power failure.

The output level may be adjusted over a range of +/-15dB and is monitored by 4 LED meters. Selectable 7.5 or 15dB cut/boost (selected option indicated by the corresponding LED) gives the user superior signal processing control whilst the low tolerance components yield accurate frequency centers.

EQ-215 & EQ-31



Rear - EQ215

EQ-215A

EQ-31A

Features of the EQ215 & EQ 31:

- Balanced XLR and _" jack TRS input and output
- Hardwire bypass switch with LED indicator
- Quiet power up and power down modes
- Ultra low noise and distortion
- 45mm High Resolution faders
- Sophisticated protection circuitry.
- Selectable +/- 15dB or +/- 7.5dB cut/boost range with LED indicator (EQ-31 only)
- Input signal level and peak LED meter
- Constant Q filtering
- Switchable subsonic and ultrasonic filter

Low cut filter:

- EQ 215: 40Hz (18dB Octave)
- EQ 31: 40Hz or 20Hz (18dB Octave)

High cut filter:

- EQ 215: 16KHz (18dB Octave)
- EQ 31: 16KHz or 20KHz (18dB Octave)

(the ultrasonic high cut filter may be used to protect your system from RF interference or to simply roll off the high end characteristics of a room)

SPECIFICATIONS

MODEL	EQ215	EQ31
INPUT		
Impedance	10K Ohm balanced	10K Ohm balanced
Maximum input level	+24dBm	+24dBm
OUTPUT		
Impedance	100 Ohm Balanced	100 Ohm Balanced
MAX OUTPUT LEVEL		
Balanced 600 Ohm	+23dBm	+23dBm
Balanced no load	+27dBm	+27dBm
Unbalanced	+23dBm	+23dBm
DYNAMIC RANGE	118dB	118dB
SIGNAL/NOISE RATIO(RE +20DBM)	115dB	115dB
EQUIVALENT INPUT NOISE	-95dB	-95dB
THD	<0.005% 20-20KHz, +15dBm	<0.005% 20-20KHz, +15dBm
FREQUENCY RESPONSE	10-30KHz +0, -5dB	10-30KHz +0, -5dB
FILTERS		
FREQUENCY CENTERS	25, 40, 63, 100, 160, 250, 400, 630 1K, 1.6K, 2.5K, 4K, 6.3K, 10K, 16K	20, 25, 31.5, 40, 50, 63, 80, 100, 125 160, 200, 250, 315, 400, 500, 630, 800 1K, 1.25K, 1.6K, 2K, 2.5K, 3.15K, 4K 5K, 6.3K, 8K, 10K, 12.5K, 16K, 20KHz
BOOST/CUT	±15dB	±15dB
LEVEL CONTROL	±7.5dB	±7.5dB
HIGH CUT	16KHz (18dB/Octave)	16K 20KHz (18dB/Octave)
LOW CUT	40Hz (18dB/Octave)	20Hz 40Hz (18dB/Octave)
CONNECTIONS		
	_ inch (TRS) Balanced (Tip Hot (+), Ring (-)) Balanced XLR (Pin 3 Hot (+), Pin 2 (-)) POWER REQUIREMENTS: 105-125 Volts AC, 50-60Hz, 140ma @116VAC, 16.3 Watts, Fuse 315mA 210-250 Volts AC, 50-60Hz, 70ma @232VAC, 16.3 Watts, Fuse 630mA	
INDICATION		
POWER	Red (ON)	Red (ON)
CHANNEL 1, 2 ACTIVE	Red (ON)	Red (ON)
CHANNEL 1, 2 PRESENT	Green/Red (Red=Clipping)	Green/Red (Red=Clipping)
SIGNAL PRESENT LEVEL	-35dBm	-35dBm
SIGNAL CLIP LEVEL	+16dBm	+16dBm
DIMENSIONS H x W x D (mm)	889 x 482 x 159	889 x 482 x 159
WEIGHT (NET)	10lbs (4.5 kg)	10lbs (4.5 kg)

MODEL	WPG202	WPG315	WPG331	WPG335
FREQUENCY RESPONSE	20Hz - 40kHz ±3dB	10Hz - 30kHz ±1dB	10Hz - 30kHz ±1dB	
THD	<0.03%	<0.03%	<0.03%	
SIGNAL TO NOISE RATIO (R.E. +20dBm)	--	114dB	114dB	
FILTER FREQUENCIES	--	25, 40, 63, 100, 160, 250, 400, 630, 1K, 1.6K, 2.5K, 4K, 6.3K, 10K, 16K,	20, 25, 31.5, 40, 50, 63, 80, 100, 125, 160, 200, 250, 315, 400, 500, 630, 800, 1K, 1.2K, 1.6K, 2K, 2.5K, 3.1K, 4K, 5K, 6.3K, 8K, 10K, 12K, 16K, 20K	
HUM & NOISE	-94dB	--	--	
MAX BOOST & CUT GAIN	--	±12dB	±12dB	
LEVEL CONTROL RANGE	0-6dB	0-12dB	±12dB	
INPUT IMPEDANCE	10KΩ (balanced)	10KΩ (balanced)	10KΩ (balanced)	
OUTPUT IMPEDANCE	<600Ω (balanced)	<600Ω (balanced)	<600Ω (balanced)	
MAX OUTPUT LEVEL	+22dBm (balanced)	+22dBm (balanced) +20dBm (unbalanced)	+22dBm (balanced) +20dBm (unbalanced)	
MAX INPUT LEVEL	+22dBm (balanced)	+22dBm (balanced) +20dBm (unbalanced)	+22dBm (balanced) +20dBm (unbalanced)	
HFP RANGE	--	--	10-200Hz 18dB/Octave	
CHANNEL FREQUENCY RANGE	50Hz-10kHz	--	--	
LOW CUT FILTER	15Hz 12dB/Octave	--	--	
HIGH CUT FILTER	40Hz 12dB/Octave	--	--	
CD HORN EQ	3kHz	--	--	
POWER CONSUMPTION	12 watts	12 watts	12 watts	
POWER	95v-130v AC, 50-60Hz 190v-250v AC, 50-60Hz	95v-130v AC, 50-60Hz 190v-250v AC, 50-60Hz	95v-130v AC, 50-60Hz 190v-250v AC, 50-60Hz	
DIMENSIONS H x W x D (mm)	483 x 160 x 44	483 x 160 x 44	483 x 160 x 44	
WEIGHT	2.7kg	3kg	3kg	

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