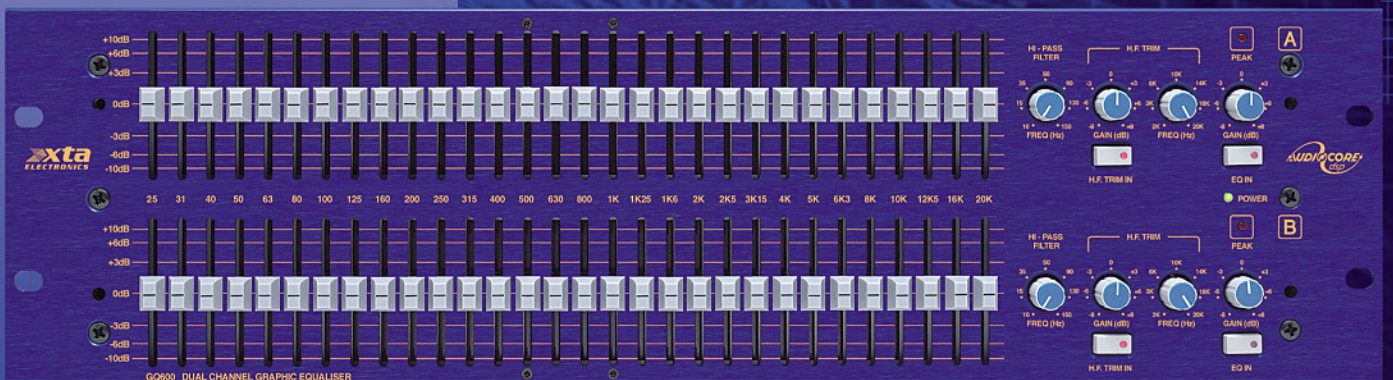




DS 800 Active Mic/Line Distribution System
GQ 600 Dual Channel Graphic Equaliser





DS 800 Active Mic/Line Distribution System

Active 8-input, 32 output audio distribution system, with XTA's promise of first-class sound quality built-in.

With exceptional dynamic range as standard, each input is split into two transformer-isolated outputs (-10dB level) and two actively balanced outputs. The unit can be internally reconfigured to give more than the standard four outputs from each input, up to a total number of 32 outputs. Each input features remote activated pad, adjustable gain, mic/line switch, 48V phantom power, 5 segment LED metering, 'listen' facility. A headphone output with "listen" access to each channel and associated gain control are also provided. When using multiple units the 'listen' facility can be cascaded such that any input channel may be listened to via a single headphone output.

FEATURES

Self-contained, 8 input 32 output unit with auto switching power supply, will work down to 60V mains voltage, 50/60Hz, no external power supply needed.

Ergonomically designed front panel with recessed controls resulting in a 'cable and connector free' control area.

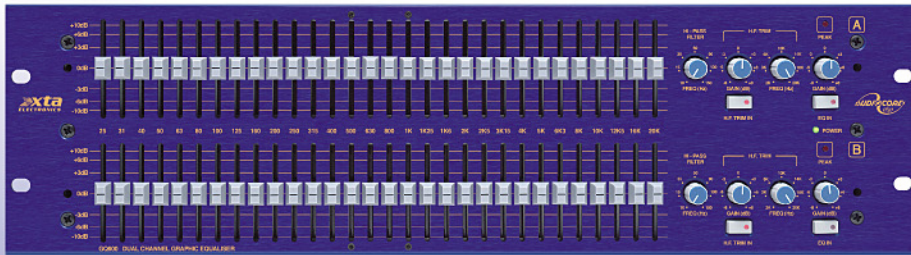
5 segment LED meters on every input giving instant indication of input levels and or clipping.

Exceptional dynamic range.

Headphone 'listen' facility, which can be expanded when using multiple units.

SPECIFICATION

Inputs	8 electronically balanced
Impedance (microphone)	2k ohms
Impedance (Line)	10k ohms
CMRR >	80dB @ 1kHz
Outputs	
FOH	8 electronically balanced *
MON	8 electronically balanced *
Isolated Feeds	16 Transformer balanced 2.5kVAC for 1 min. isolation (-10dB)
Source Imp	< 80ohms
Minimum Load	600ohm
Maximum Level	+20dB into 600 ohm load
Gain	10dB, 20dB, 30dB, 40dB or 50dB via 5 position switch
Headroom meter	5 point LED @ 0, -6, -12, -18, -30dB below clipping
Frequency Response	±0.5dB 20Hz - 20kHz
Equivalent Input Noise	10dB Gain: < -112dBm
(20Hz - 20kHz, Unweighted)	20dB Gain: < -117dBm
	30dB Gain: < -120dBm
	40dB Gain: < -120dBm
Distortion	< 0.01% @ 1kHz, +4dB output
Power	80 to 250VAC @ 50/60Hz
Consumption	< 40 watts
Weight	8.1kg, Net (9.5kg, Shipping)
Size	3.5" (2U) x 19" x 12.2" (88 x 482 x 312mm) excluding connectors
Options	* = Transformers available



GQ 600 Dual Channel Graphic Equaliser

The new standard in professional EQ, with market-leading noise and distortion performance. Dual-channel 30-band graphic, with high-quality long-throw 45mm faders and a shelving HF trim section, gives fast and powerful response-tailoring in a familiar format.

The GQ600 is a precision dual channel 1/3 octave graphic equaliser which provides up to 10dB of boost or cut at 30 centre frequencies between 25Hz and 20kHz. Filter design has been carefully optimised for good interpolation and improved narrow band performance, whilst high quality long-throw 45mm sliders are used for better resolution. The GQ600 also provides excellent noise and distortion performance, with a flat noise figure of better than -98dBm.

A shelving H.F. Trim section is provided, with adjustable gain and frequency allowing fast adjustments to be made to overall high frequency response. This obviates the need for system re-voicing when, for example, changes in humidity or audience size occur.

A sweepable high-pass filter offers turnover frequencies of 10Hz to 150Hz and a fixed frequency low-pass filter is also provided for increased H.F. driver protection. This filter is selectable in or out of circuit via jumper links on the main circuit board.

Audio inputs and outputs are provided on lockable XLR's and 'quick-wire' Klippon connectors and are fully electronically balanced as standard. Optional transformer balancing is also available for both inputs and outputs.

Additional features include; relay fail-safe bypass, peak level indicators and optional perspex security cover. The GQ600 is sturdily constructed from high quality components and undergoes extensive testing and

quality control procedures including a minimum 48 hours burn-in period prior to despatch.

FEATURES

H.F. Trim section with adjustable gain and frequency allows fast adjustments to be made to overall H.F. response. This obviates the need for system re-voicing when, for example, changes in humidity or audience size occur.

Filter design is carefully optimised for good interpolation and improved narrow band performance. Excellent noise and distortion performance.

High quality long throw 45mm sliders are used, improving resolution whilst eliminating the need for range switching.

Sweepable high-pass filter is provided. Inputs and outputs are fully electronically balanced as standard.

A fixed frequency 18 dB/octave low-pass filter is provided for increased H.F. driver protection. Both XLR and Klippon "quick-wire" connectors are provided.

Peak level indicators give prior warning of onset of clipping anywhere in the equaliser.

Relay fail-safe bypass is provided, with turn-on delay. Gain control and EQ in/out switch for each channel.

SPECIFICATIONS

Inputs	Two, electronically balanced
Impedance	> 10k ohms
CMRR >	65dB 50Hz - 10kHz
Outputs	Two, electronically balanced
Source Imp.	< 60 ohms
Minimum Load	600 ohms
Maximum Level	± 23dB into 600 ohm load
Gain	± 10dB via rotary control
Frequency Response	± 0.5dB 20Hz to 20kHz with controls "flat"
Eq'v. Input Noise	< -100dBm (20Hz - 20kHz un-weighted) with controls "flat"
Distortion @	+18dBm < 0.01% @ 1kHz
Channel Separation	> 80dB @ 1kHz
Peak Indicator	Threshold: + 20dBu
H.F. Trim	
Filter Type	2nd order, optimum phase, shelving
Frequency	2K - 20kHz
Gain	± 8dB
H.F. Trim In/Out	Front panel switch with LED
High-pass Filter	
Filter Type	12dB/octave H.P
Frequency (-3dB)	10Hz - 150Hz
Low-pass Filter	
Filter Type	18dB/octave 3dB @ 27kHz
LPF In/Out	Link selectable on PCB
Equaliser Section	
Filters	2 x 301/3 octave, 25Hz-20kHz
Filter Type	High performance simulated LCR network
Freq. Tolerance	± 3%
Range	± 10dB
Power	110/120 ± 15% @ 50/60Hz
Consumption	< 20W
Weight	5.0 kg Net (6.7 kg Shipping)
Size	5.25" (3U) x 19" x 9.3" (133 x 482 x 237mm) excluding connectors
Options	* = Optional transformer balancing Perspex security cover

Due to continuing product improvement the above specifications are subject to change.



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XTA is dedicated to providing increasingly improved technology to produce exceptional audio quality