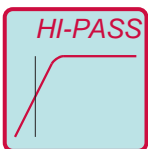


## More than just equalisation...

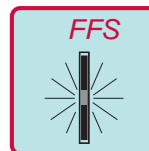
The constant Q graphic equalisers EQ-215 (dual, 2/ 3 octave) and EQ-230 (dual, 1/ 3 octave) incorporate new functions like selection of equalisation range and selective faders illumination as well as improved specifications in increased dynamic range and better filter musicality. A rear panel switch (ON-SCAN-OFF) associated with the faders illumination system warrants the adaptability to the different application fields: disk, live music, bands or monitor systems.

The equaliser EQ-230 combines in a compact 3u rack format, two 30 bands single channel graphic equalisers, two fully parametric equalisation points and a feedback finder system (FFS), giving the professionals a complete toolkit.

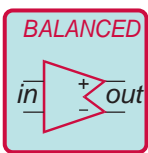
Unlike other automatic feedback destruction systems, the FFS is a simple feedback finder which allows the operator the freedom of eliminating the feedbacks while monitoring and evaluating at the same time, the effect produced on the equalisation. Included in a monitor system it helps locating the send that is causing the feedback. A delaying circuit extends the visualization time of the last feedback during a few seconds even though the real feedback situation might have ceased as it normally occurs.



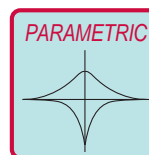
**HI-PASS:** Continuously variable high pass filter (10Hz-300Hz) in order to delimit the bandwidth. This filter is of great utility when miking string instruments, voices and to control low frequency feedback,...



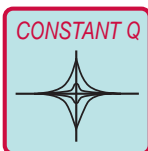
**FFS:** Feedback finder system (only EQ-230). A microprocessor associated with each channel scans the whole spectrum in order to detect and display possible feedbacks. Direct LED fader indication.



**BALANCED:** Equipped with electronically balanced input and output circuits for noise immunity in long cabling set-ups.



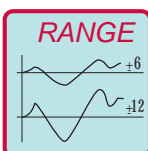
**PARAMETRIC:** Incorporates a totally parametric equalization point on each channel (only EQ-230). The range is asymmetric (+15dB, -30dB) allowing notch filter adjustments.



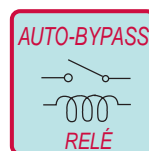
**CONSTANT Q:** The constant Q topology assures minimum interaction between bands and makes the bandwidth of each filter independent of the gain/attenuation setting.



**LOW NOISE:** The use of very low noise circuits and other techniques permit achieving an exceptional dynamic range.



**RANGE:** Global selection of the range of gain/attenuation of each band for a more precise adjustment. Front panel Indication by double LED.

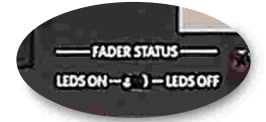


**AUTO-BYPASS:** Incorporates secure by-pass circuits controlled by relay for the on/off switch transients elimination and for signal integrity in the case of internal failures.

EQ -215 FRONTVIEW



EQ -215 REAR VIEW

ON/OFF LED  
switchFFS  
ON/OFF/SC.  
N switchFeedback  
finder system  
(FFS) LED  
fader detail

## GRAPHIC EQUALISERS

### EQ-215/EQ-230



EQ -230 FRONTVIEW



EQ -230 REAR VIEW

# TECHNICAL SPECIFICATIONS

**NUMBER OF BANDS:**

EQ-215: - 15+15 bands, 2/3 octave, ISO standard.  
EQ-230: - 30+30 bands, 1/3 octave, ISO standard.

**FILTERS TYPE:**

Band-pass. constant Q.

**CENTRE FREQUENCIES:**

Better than  $\pm 4\%$  of nominal.

**CUT/BOOST:**

Selectable between  $\pm 12$  and  $\pm 6$  dB by means of the range switch.

**HIGH PASS FILTER (HPF):**

12 dB/octave, sweepable frequency 10Hz - 300Hz.

**PARAMETRIC FILTER:**

**GAIN:** Adjustable between +15 and -30 dBu.  
**FREQUENCY:** Adjustable between 32Hz and 16KHz.  
**Q:** Adjustable between 0,5 and 10.

**CHANNEL SEPARATION:**

Greater than 75 dB (20Hz - 20KHz).

**GAIN/ATTENUATION:**

+6 dB. -∞. Level control by calibrated rotatory potentiometer.

**DISTORTION:**

Less than 0,01% at 0 dBu (20 Hz - 20 KHz).

**MAXIMUM INPUT LEVEL:**

+21 dBu (with all controls flat).

**INPUT IMPEDANCE:**

10 K $\Omega$  unbalanced.  
20 K $\Omega$  balanced.

**COMMON MODE REJECTION RATIO (C.M.R.R.):**

Greater than 65 dB (20Hz - 20KHz).

**MAXIMUM OUTPUT LEVEL:**

+21 dBu over 600  $\Omega$  (0,1% THD).

**OUTPUT IMPEDANCE:**

100  $\Omega$  unbalanced.  
100  $\Omega$  balanced.

**SIGNAL TO NOISE RATIO:**

Greater than 115 dB ref. +20 dBu unweighted (20Hz - 20KHz).

**FREQUENCY RESPONSE:**

20Hz - 40KHz. (+0, -0,5 dB)

**POWER SUPPLY:**

Selectable between 115 and 230VAC  $\pm 12\%$ , 50-60Hz.

**NET WEIGHT:**

EQ-215: - 4,5 Kg.  
EQ-230: - 6,0 Kg.

**DIMENSIONS:**

EQ-215: - 483x89x200 mm. (19" x 3 1/2" x 7 7/8").  
EQ-230: - 483x123x200 mm. (19" x 4 6/7" x 7 7/8").

**POWER REQUIREMENTS:**

EQ-215: - 30 VA  
EQ-230: - 40 VA

Specifications subject to change without previous notice..

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