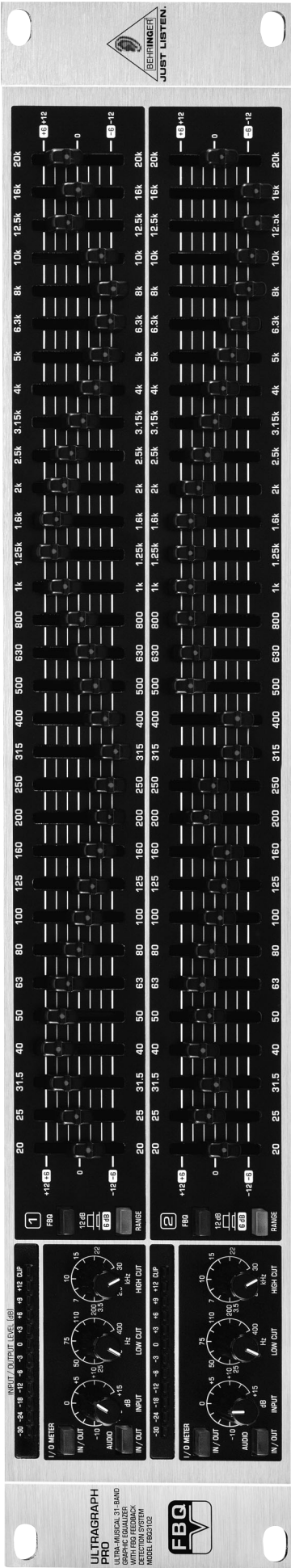


# ULTRAGRAPH PRO FBQ3102



## Technical Specifications

VERSION 1.2 October 2003

ENGLISH

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## ULTRAGRAPH PRO FBQ3102

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# ULTRAGRAPH PRO

**ULTRA-MUSICAL 31-BAND STEREO GRAPHIC EQUALIZER WITH FBQ FEEDBACK DETECTION SYSTEM**

- ▲ Professional 31-band stereo graphic equalizer for both live and studio applications
- ▲ Revolutionary FBQ Feedback Detection system instantly reveals critical frequencies and can also be used as audio analyzer
- ▲ Dedicated mono subwoofer output with adjustable crossover frequency
- ▲ Additional sweepable high and low-cut filters for each channel remove unwanted frequencies, e.g. floor rumble, tape hiss, etc.
- ▲ Highly accurate 12-segment LED input/output metering and input gain control for easy level setting
- ▲ Ultra-low noise audio operational amplifiers offer outstanding sound performance
- ▲ Relay-controlled hard-bypass with an auto-bypass function during power failure (failsafe relay)
- ▲ Servo-balanced inputs and outputs with 1/4" TRS and gold-plated XLR connectors
- ▲ Shielded toroidal power transformer for ultra-low noise performance
- ▲ High-quality components and exceptionally rugged construction ensure long life
- ▲ Conceived and designed by BEHRINGER Germany

# ULTRAGRAPH PRO FBQ3102

## SPECIFICATIONS

	ULTRAGRAPH PRO FBQ6200	ULTRAGRAPH PRO FBQ3102	ULTRAGRAPH PRO FBQ1502
<b>AUDIO INPUTS</b>			
INPUTS	RF-filtered, servo-balanced XLR and 1/4" TRS connectors		
Impedance	40 kΩ balanced and unbalanced		
Maximum input level	+21 dBu balanced and unbalanced		
CMRR	typ. 40 dB, >55 dB @ 1 kHz		
<b>AUDIO OUTPUTS</b>			
OUTPUTS	servo-balanced XLR and 1/4" TRS connectors		
SUBWOOFER OUT	balanced XLR connector, level variable off to 0 dB	balanced XLR connector	
Crossover frequency	variable, 30 - 200 Hz		
<b>SYSTEM SPECIFICATIONS</b>			
Frequency response	10 Hz to 30 kHz, +/-3 dB		10 Hz to 200 kHz +/-3dB
S/N ratio	22 Hz to 22 kHz >94 dB @ +4 dBu		
Distortion (THD)	typ. 0.006% @ +4 dBu, 1 kHz, Gain 1		
Crosstalk	typ. -65 dB @ 1kHz		
<b>ROLL-OFF FILTERSECTION</b>			
Type	12 dB/oct., Butterworth		
Input	variable (-15 dB to +15 dB)		
Low Cut	variable (10 Hz to 400 Hz)	switchable, Cutoff @ 25 Hz	
High Cut	variable (2.5 kHz to 30 kHz)	-	
<b>GRAPHIC EQUALIZER</b>			
Type	analog 31-band equalizer		analog 15-band equalizer
Frequency range	20 Hz to 20 kHz in 31 1/3-octave bands (ISO frequencies)		20 Hz to 16 kHz in 15 bands (ISO frequencies)
Bandwidth	1/3 octave		2/3 octave
Control range	+/-6 dB or +/-12 dB (switchable)		
<b>LIMITER SECTION</b>			
Attack/Release	20 msec / 90 msec	-	
Threshold	variable, -6 dB to +22 dB (off)	-	
LED meter	Gain reduction 20/10/3/1 dB	-	
<b>NOISE GENERATOR</b>			
Type	Pink noise, level variable, off to 0 dBu,	-	
LED level meter	-24/-12/-6/0 dB	-	
<b>FUNCTION SWITCHES</b>			
FBQ	activates the FBQ Feedback Detection System		
Audio In/Out	switch to bypass the equalizer functions		
I/O Meter In/Out	switches the meter display from input to output		-
Range	shift of the maximum cut/boost range for all 31/15 bands		
Low Cut	-	-	activates the high pass filter
Limiter	activates the limiter	-	-
Pink Noise	activates the noise generator	-	-
Subwoofer	activates the subwoofer output	-	-
<b>INDICATORS</b>			
Input/output level	8-segment LED display: -24/-18/-12/-6/0/+6/+12 dB/CLIP	12-segment LED display: -30/-24/-18/-12/-6/ -3/0/+3/+6/+9/+12 dB/CLIP	4-segment LED display: -20/0/+6 dB/CLIP (output only)
Subwoofer	4-segment LED display: -18/-12/0/+12 dB	-	-

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<b>POWER SUPPLY</b>			
Mains voltage	USA/Canada 120 V~, 60 Hz		
	Europe/U.K./Australia 230 V~, 50 Hz		
	Japan 100 V~, 50 - 60 Hz		
	general export model 120/230 V~, 50 - 60 Hz		
Power consumption	35 W	35 W	22 W
Fuse	100 - 120 V~: <b>T 630 mA H</b>		
	200 - 240 V~: <b>T 315 mA H</b>		
Mains connection	standard IEC receptacle		
<b>DIMENSIONS/ WEIGHT</b>			
Dimensions (approx.) (H x W x D)	133.5 mm x 482.6 mm x 150 mm	89 mm x 482.6 mm x 150 mm	44.5 mm x 482.6 mm x 215 mm
	5 ¼ " x 19" x 5 7/8"	3 ½" x 19" x 5 7/8"	1 ¾" x 19" x 8 3/8"
Weight	approx. 2.70 kg	approx. 2.5 kg	approx. 2.15 kg
	approx. 5.95 lbs	approx. 5.51 lbs	approx. 4.74 lbs

BEHRINGER continuously strives to assure the highest quality standards possible. Required modifications may be implemented without prior notice. Technical data and the appearance of the unit may deviate from the above values and/or illustrations.

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