



EQ 1520 System Controller – Technical Specifications (rev2 01/05/01)

General Detail.

The EQ 1520 is a two input, three output, system controller that enables the successful combination of **CM20** and **CM20SB** products. The high pass outputs are designed to drive the **CM20** cabinets and include a 6th order filter for optimum bass response. The high pass outputs may also be used to drive both **CM20** and **CM20SB** cabinets when they are combined as a passive system, as the **CM20SB** is co-tuned and requires the same 6th order filter for optimum bass response. The mono summed output enables you to drive the **CM20SB** cabinets actively.

- Left and right balanced line inputs.
- Input limiters (internally selectable range)
- Left and right high pass balanced outputs, **6th order EQ @ 45Hz.**
- Mono sum bass low pass balanced output (**132Hz 2nd order Linkwitz Riley**)
- High pass filter on mono summed output, **6th order EQ @ 45Hz.**
- Tamper proof internal selection for features.

Technical Specification

THD:	• Less than 0.01% 20Hz – 20KHz 0dBV
En (output):	• 22Hz – 22KHz Less than-90dBV
Mains Voltage:	• 230V 50/60Hz
XLRs wired:	• Pin 1 = Earth Pin 2 = Hot Pin 3 = Cold
Dimensions (1 unit):	• 483mm (W) x 44.5mm (H) x 220mm (D)
Packaged dimensions:	• 495mm (W) x 62mm (H) x 305mm (D)
Weight:	• 2.5kg (3kg when packed)

Feature Selection

To select or make adjustments to the controller settings, you will need to remove the controller's lid (6 off pozi screws). You then have the following two options available to you.

- Limiter threshold (selectable between **-6dBv** to **+9dBv**)
- High pass output drive level (selectable between **0dB** and **-6dB**)

All settings are detailed on labels inside the controller's lid. Standard factory settings are:

- Limiters: **0dBu**
- High pass output attenuation: **0dB**

Limiter settings

When calibrating the limiter setting to your amplifier input gain, the following information may be useful:

- **-2dBv = 0.8 VOLT, 0dBv = 1 VOLT, +3dBv = 1.4 VOLT.**

The equation to calculate other settings is:

$$\text{LEVEL (dBv)} = 20 \times (\text{LOG (V)}) \quad \text{OR} \quad \text{LEVEL (V)} = 10^{(\text{LEVEL (dBv)} / 20)}$$

Miscellaneous

- This product is supplied with a UK specification mains lead. This is packaged in the cardboard tube at the front of the controller.
- For correct operation of the mono summed bass output it is imperative that the controller receives a stereo input. If a mono feed is being used, please feed both left and right inputs with the same signal source. Alternatively, reduce the high pass output drive level by **-6dB** and increase the limiter setting by **6dB**.