

R200 Instruction Manual



Wharfedale
Pro

Thank you for purchasing an R Series Mixer from Wharfedale Professional. Please read these instructions carefully to ensure problem free operation and user satisfaction. The R Series of mixers from Wharfedale Professional are designed to offer a superior quality audio performance in an easy to use, great value package. The quality of the R Series is such it can be used in a variety of professional applications such as studio, sound reinforcement, field recording and film/video production.

Features R200:

- * **4 balanced/unbalanced mono line inputs**
- * **4 low noise, high headroom XLR mic inputs**
- * **2 pairs of balanced/unbalanced stereo line input with +4/-10 input gain/sensitivity selector**
- * **48V phantom power**
- * **3 band EQ in each input channel (12kHz, 2.5kHz, 80Hz)**
- * **75Hz, 18dB/octave low cut filter on channels 1-4**
- * **EFX to AUX switch**
- * **Peak LED's on mono channel**
- * **One aux send and one effect send**
- * **Separate main mix, control room and headphone outputs**
- * **2 track inputs assignable to main mix, control room/headphone outputs**
- * **Highly accurate 4 segment bargraph meters**
- * **High quality 60mm fader on master output**
- * **19" Rack Mounting kit included**

Getting Started

Power Supply

The R Series mixer is supplied with an external power supply unit. Only use the power supply provided with your mixer. Connect the R Series mixer to the power supply unit and THEN connect the power supply unit to the Mains. During long periods of operation the mixer may become warm. Therefore it is important that the unit is placed where the air is able to flow freely around it.

Packing

Every care has been taken to ensure that your mixer reaches you in perfect condition and working order. The exterior and internal packaging has been designed to protect the unit in transit, but should you notice any damage to the unit, please notify the place of purchase immediately.

Warranty

The R Series mixers warranty covers any defects in the manufacture of the product for a period of 12 months from the date of purchase. The Warranty is nontransferable and applies to the original purchaser only. Should you have any Warranty issues, please contact your place of purchase who will advise on a returns procedure.

Mono Input Channels:

1. Low Impedance (or Low Z) Mic Inputs

The R200 features four low noise, high headroom Low Z mic inputs for use with balanced or low impedance microphones or low level external equipment with XLR connectors.

2. Line Inputs

The R200 features four balanced/unbalanced high impedance mono line inputs for use with high level signals with 1/4" phone plug connectors.

3. Low Cut Filter:

The low cut filter can be activated by pressing this button. The slope of this filter is 18dB. 3dB at 75Hz and should be used when it is necessary to eliminate or reduce background rumble, breathing noises and popping.

4. Gain Control:

The input level on the mic channels is controlled by using the Gain Control maximising the signal to noise ratio. The Gain control should be used in conjunction with the Peak LED (10) which will illuminate if the input gain is too high.

5. EQ Section:

Each mono input channel features a three band EQ section. The Hi EQ control has an upper shelf limit of 12kHz, the Mid EQ 2.5kHz and the Low EQ 80Hz. Each control has a range of -15dB to +15dB cut and boost, with a central point of "0" for OFF. The EQ control section should be used in conjunction with the Low Cut Filter (3) to add extra warmth or extra punch to the mix where necessary.

AUX Section

6. The AUX is set to Pre Fader (independent of the channel fader) and post EQ.

7. The EFX control is set to Post Fader which allows you adjust channel EFX send level to the external effect unit.

Volume and Panning

8. The Pan control adjusts the amount of channel signal sent to the left versus the right inputs. On the mono channels the controls act as true Pan pots.

9. The level to the main mix bus is controlled by the channel volume control with a range to +15dB.

10. Mic channel level is determined by the GAIN control (4). In addition to main metering, a channel PEAK LED illuminates when a channel is going into overload. These LED's take their cue from post EQ.

Stereo input Channels:

11. The R200 stereo channel features two unbalanced line level inputs with 1/4" jacks for left and right signals.

12. Left mono input: When the left input is connected only, then the channel operates in mono.

13. -10/+4. Switch: This button lets you choose between the two standard operating levels -10dBv and +4dBu.

Aux send and stereo EFX return

14. The AUX Send and EFX Send are provided on unbalanced 1/4" jacks.

15. The stereo EFX return, If you connect a jack only to the Left socket it will operate in mono.

16. EFX to AUX button: Press the EFX to AUX button can route the EFX return signal to the AUX bus.

17. EFX send level control

18. EFX return level control

Metering

19. The level of the main mix is displayed on this LED section. The '0' level LED should be illuminated most of the time - if the '6' or 'CLIP' LEDs are illuminated then you should reduce the main mix or channel volume.
20. This LED is illuminated when Power is ON.
21. When this LED is illuminated it indicates that the +48 V DC phantom power is present. The Phantom Power is switched on and off by a sliding switch.

2 Track In/Out

22. The two track input section has RCA phono jack inputs to enable easy connection to DAT tape devices and other audio equipment. This is used primarily for listening to mix playback from a tape for example. Pressing the '2TK to MIX' button (23) routes this signal to the main mix. Similarly, pressing the button '2TK to Phones Ctrl Room' (24) will route the signal to the studio monitors.
23. 2TK to Mix button.
24. 2TK to Phones Ctrl Room Button.
25. The Level is determined by the 2TK Level control.

Monitoring:

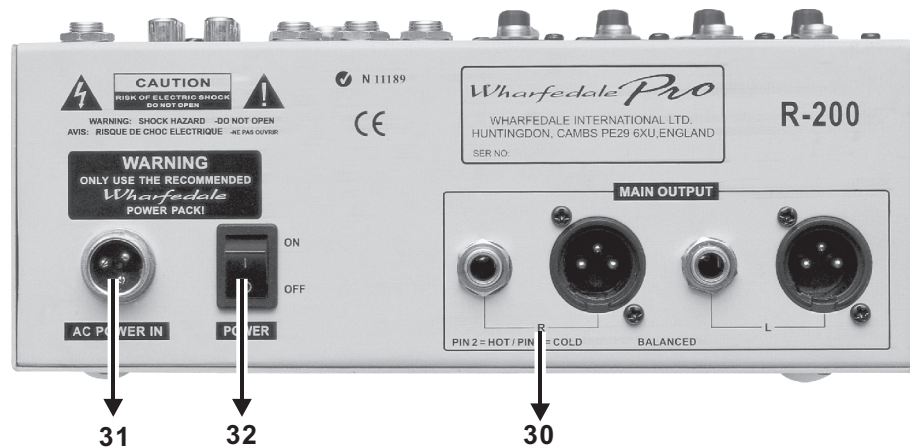
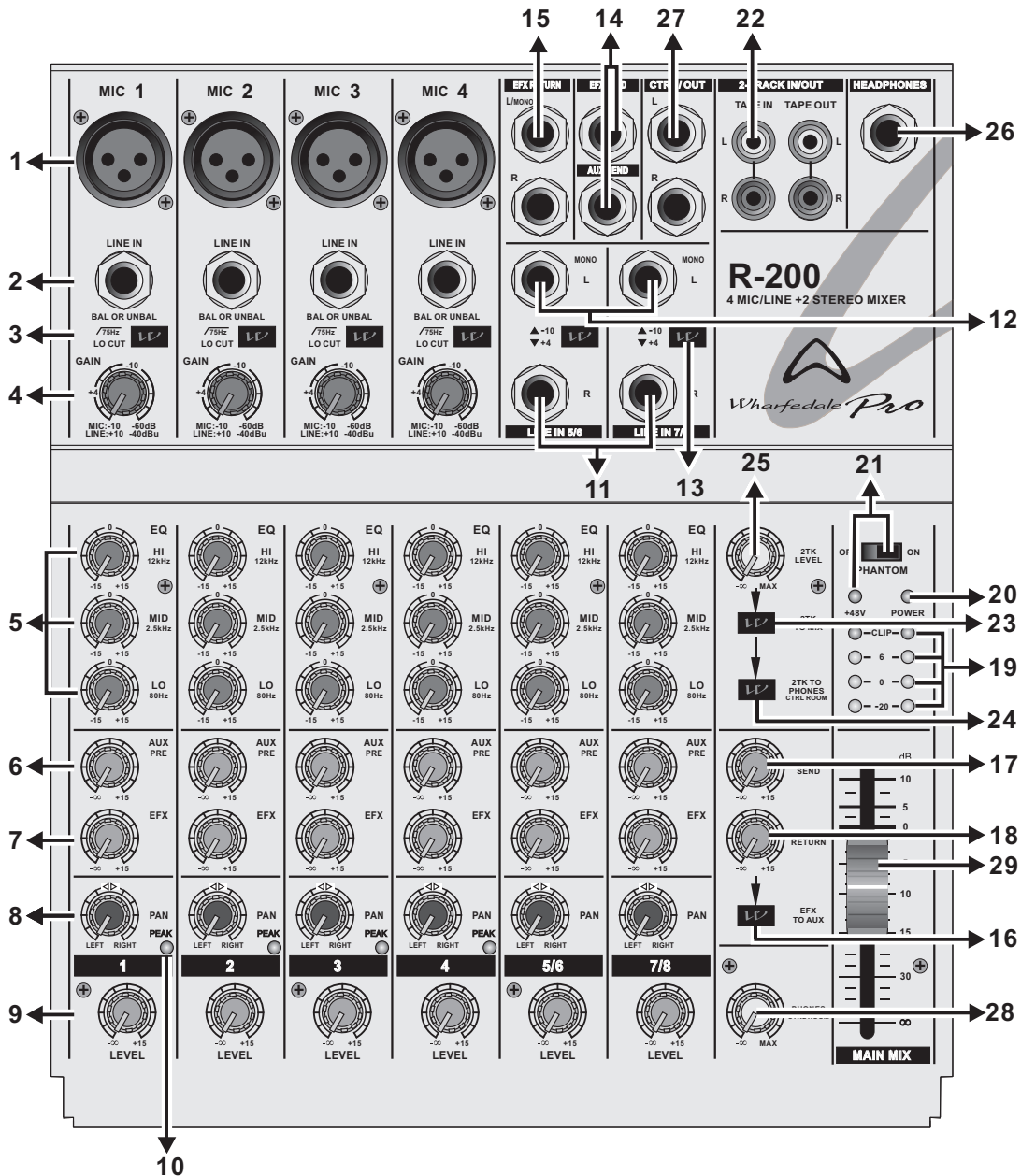
26. Headphones output. The signal from this output follows the signal from the control room outputs.
27. Control room outputs.
28. Volume control level for headphones and main monitors.
29. The master fader controls the level of the master mix.
30. Balanced XLR 1/4" (TRS) output.

Power:

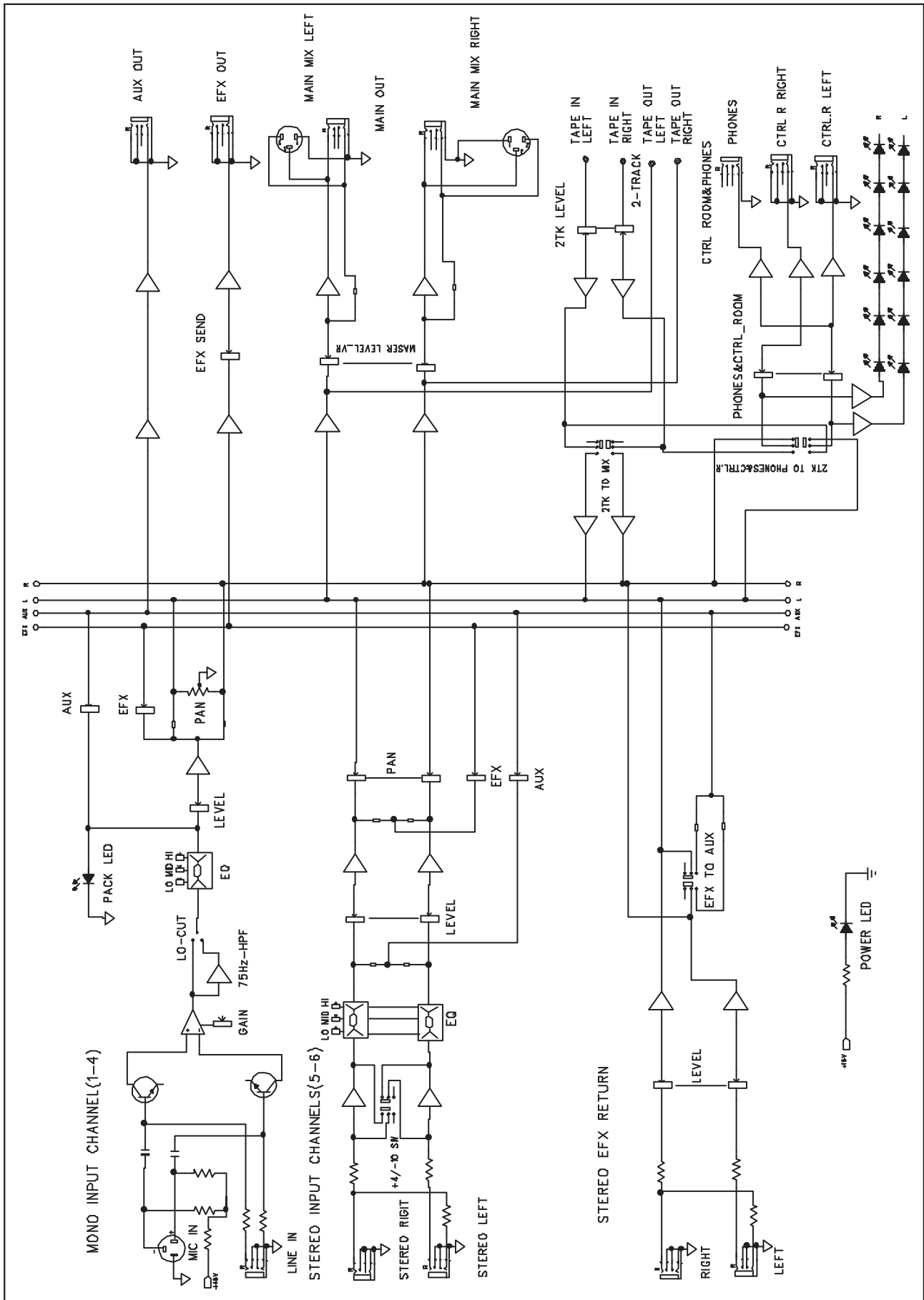
31. AC cable connector.
32. ON/OFF switch.

Features of the R200 mixer:

- | | | |
|----------------------------------|---|----------------------------|
| 1. Low Z inputs | 15. Effect stereo return | 29. Main mix level control |
| 2. Balanced line inputs | 16. Effect aux switch button | 30. Balanced main output |
| 3. Lo Cut filter | 17. Effect send level control | 31. AC cable connector |
| 4. Gain control | 18. Effect return level control | 32. ON/OFF switch |
| 5. EQ section | 19. Main mix LED meter | |
| 6. AUX (Pre Fader) control | 20. Power on LED | |
| 7. EFX (Post Fader) control | 21. Phantom power ON/OFF and indicator | |
| 8. Pan control | 22. Two track input and output | |
| 9. Channel level control | 23. Two track to main mix switch | |
| 10. Peak LED | 24. Two track to control room and phones switch | |
| 11. Stereo input channel | 25. Two track level control | |
| 12. Mono input on stereo channel | 26. Headphones output | |
| 13. +4/-10 input gain switch | 27. Control room output | |
| 14. EFX to AUX send | 28. Control room & Headphones level control | |



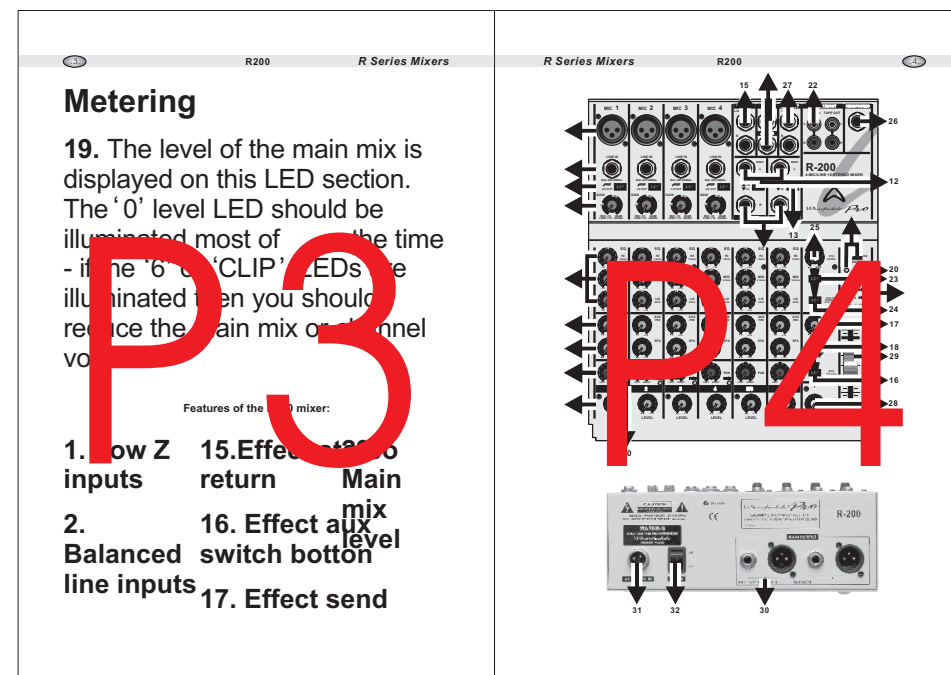
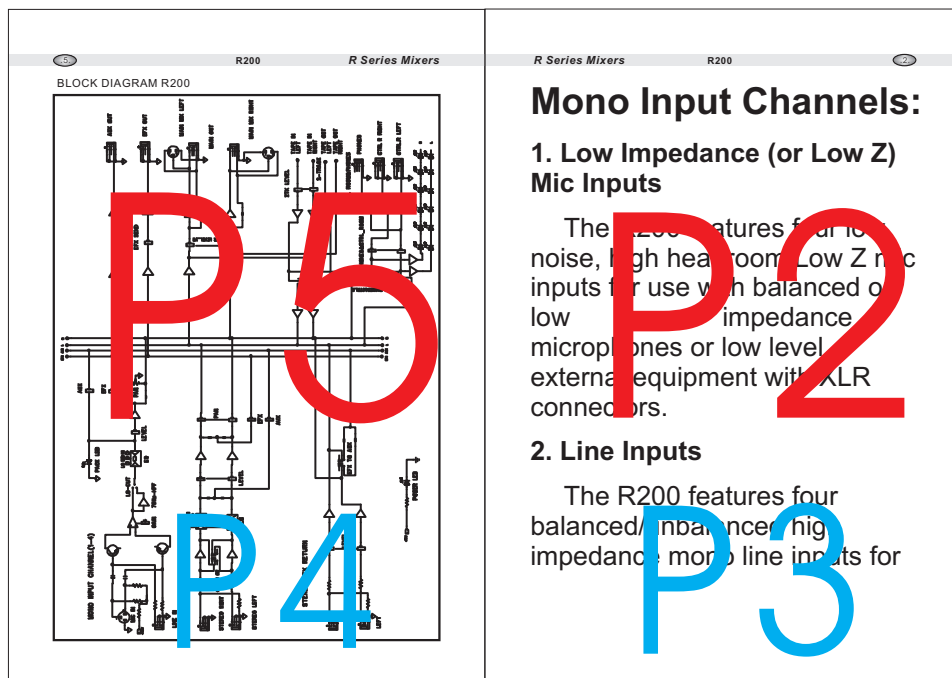
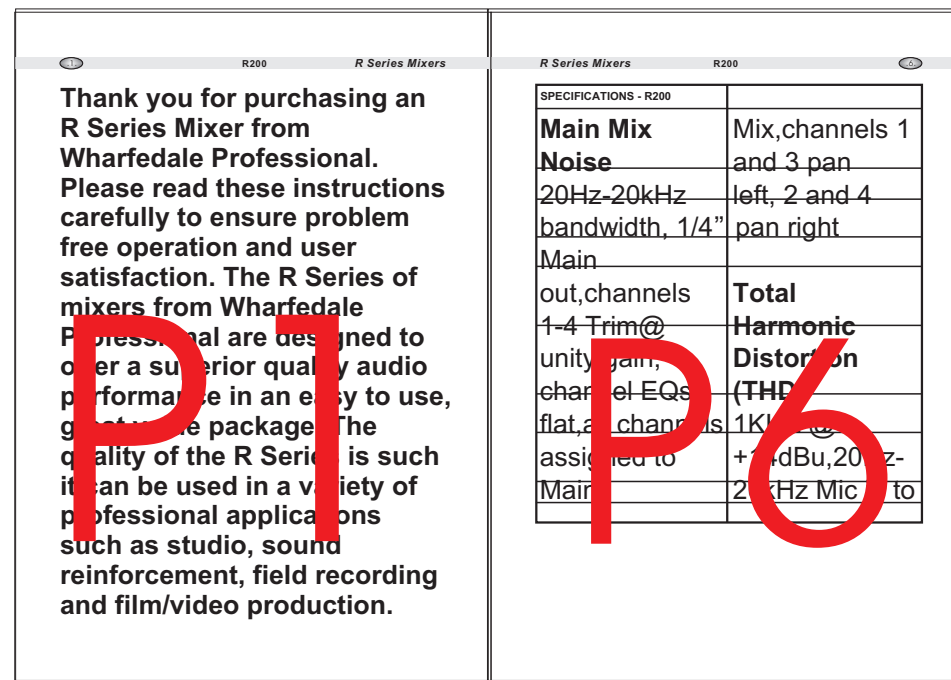
BLOCK DIAGRAM R200



| SPECIFICATIONS - R200 | |
|---|--|
| Main Mix Noise 20Hz-20kHz bandwidth, 1/4" Main out, channels 1-4 Trim @ unity gain, channel EQs flat, all channels assigned to Main Mix, channels 1 and 3 pan left, 2 and 4 pan right | Main Mix fader down, channel faders down: -100dBu Main Mix fader unity, channel faders down: -90dBu Main Mix fader @ unity, channel faders @ unity: -90dBu |
| Total Harmonic Distortion (THD) 1KHZ @ +14dBu, 20Hz-20kHz Mic in to Main out: | 0.0025% |
| Attenuation(Crosstalk) 1kHz relative to 0dBu, 20Hz-20kHz bandwidth, line in, 1/4" ± Main out, Trim @ unity | 1 Main fader down: -85dBu Channel VR minimum : -70dBu |
| Frequency Response Mic input to any output | 20Hz-20kHz: +0dB/-1dB 10Hz-60kHz: +3dB/-3dB |
| Maximum levels | Mic in : +4dBu Tape in: +13dBu All other inputs: +25dBu Main Mix XLR out: +22dBu All other outputs: +22dBu |
| Impedances | Mic in: 3 kilohms Channel input: 20 kilohms Stereo input: 20 kilohms All other inputs: 10 kilohms or greater Tape out: 10 kilohms All other outputs: 100 ohms |
| EQ | High shelving: +/-15dB @ 12kHz Mid peaking: +/-15dB @ 2.5kHz Low shelving: +/-15dB @ 80Hz |
| Power Consumption 25 watts | EUROPE: 230VAC-50Hz JAPAN: 100VAC-60Hz UK: 240VAC-50Hz USA : 120VAC-60Hz |
| SIZE mm (HxWxL) | 80.3 x 307 x 379 |
| Weight | 4.4 kg |



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印刷的折手样 共有8个页面