

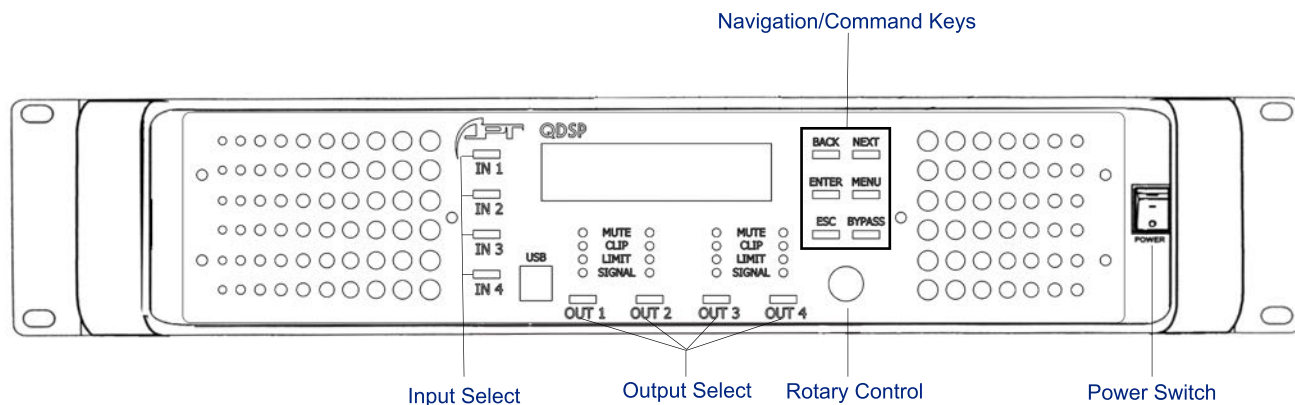


Amp Specs:	QDSP-20K
8Ω Single Channel:	4 x 2100w
4Ω Single Channel:	4 x 4000w
2Ω Single Channel:	Not Suitable for 2Ω Load
8Ω Bridge Mode:	2 x 10,000w
4Ω Bridge Mode:	Not Suitable for 4Ω Load in bridge
2Ω Bridge Mode:	Not Suitable for 2Ω Load in bridge
Frequency response:	20Hz - 20KHz ±0.5dB
THD+N (Rated Power 4Ω/KHz)%	0.10%
SNR	110dB
Input Impedance:	20KΩ Balanced/10KΩ Unbalanced
Output Connectors:	4 x Neutrik Speakons NL4
Power Requirements:	100 -120v 50/60Hz, 200-240v 50/60Hz

Dimensions:	QDSP-20K
Size:	483 x 377 x 88mm
Weight:	13Kg

DSP Specs:	QDSP-20K
Input:	4 x Channel Neutrik XLR
PC Com Port:	Front: 1 x USB-B, Rear: 1 x USB-B, RS485, Ethernet
Processing:	48KHz Sampling Frequency, 48-Bit DSP, 24-Bit A/D & D/A Conversion
Dynamic Range:	>110dB
Frequency response:	± 0.25dB, 20Hz - 20KHz
Distortion:	< 0.01%, 20Hz - 20KHz @ +10dBu Balanced Input
SNR:	>110dB
Crossover:	LPF,HPF & APF, Butterworth, Bessel & Linkwitz-Riley 12, 18, 24 & 48dB/Octave
EQ:	Bandwidth:0.2 to 36 Oct., Gain -24dB to +12dB, Step:0.2dB
Delay:	0ms - 115ms
Display:	2 x Line LCD Display
Preset Storage:	20 x Storage Slots

Front Panel



Signal Indicator:

- Mute LED - Indicates Device audio protection mute
- Clip LED- Indicates Low impedance/short circuit detection
- Limit LED - Indicates signal is clipping/limiters are in use
- Signal LED - Indicates signal present on channel.

LCD Display:

Display shows current status and allows user to view and edit menu's and settings locally..

Enter:

Confirms menu/operation command using front display.

Back:

Previous Page/scroll cursor back a character.

Next:

Next Page/Scroll Cursor forward a character.

Menu:

In Standby state used to access Settings Menu.

ESC:

Back to Previous menu/Return to standby screen.

Bypass:

Used to Bypass certain parameters in Channel Settings.

Input Select Key:

Quick press to Mute input signal, Press and hold to access Output Channel settings.

USB-B Port:

Used to access PC control via front panel (Windows OS only).

Output Select Key:

Quick Press to Mute output signal, Press and hold to access Output Channel settings.

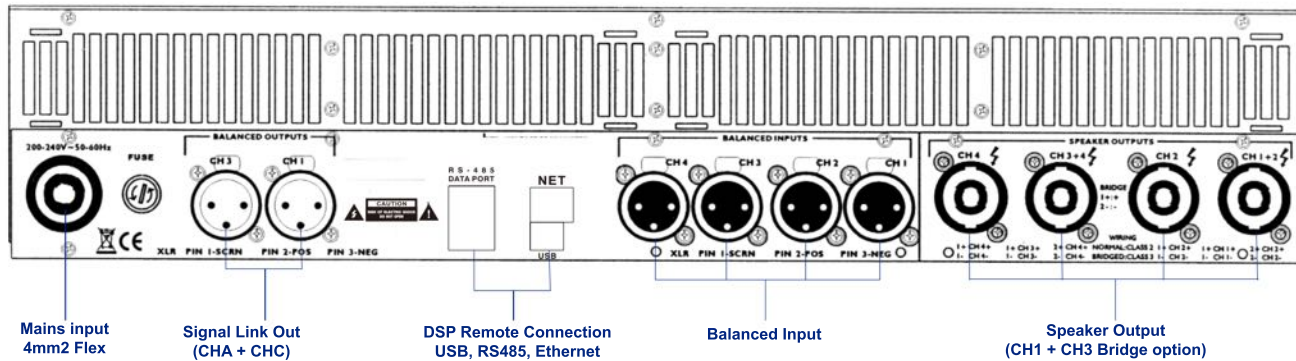
Control Knob:

Adjust Paramaters in Menu settings.

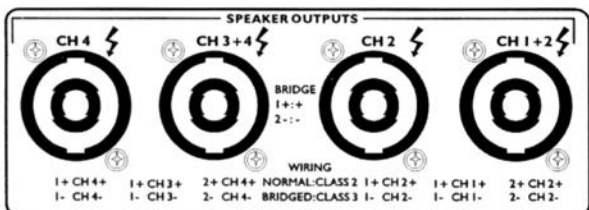
Power Switch:

Switch on Unit/Switch off unit, with LED to indicator to show Current power state.

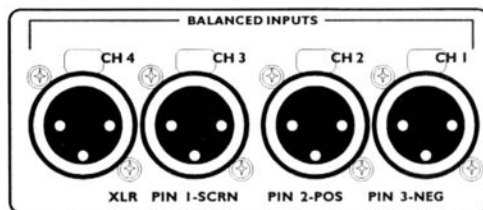
Rear Panel



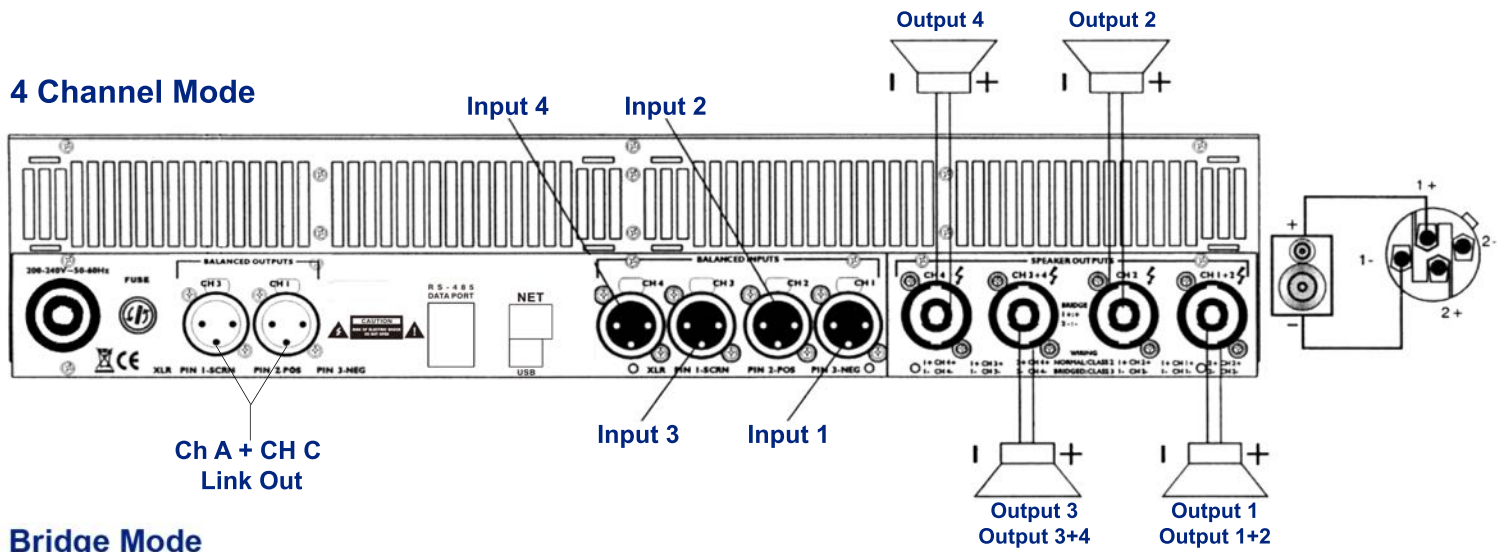
Output Connections



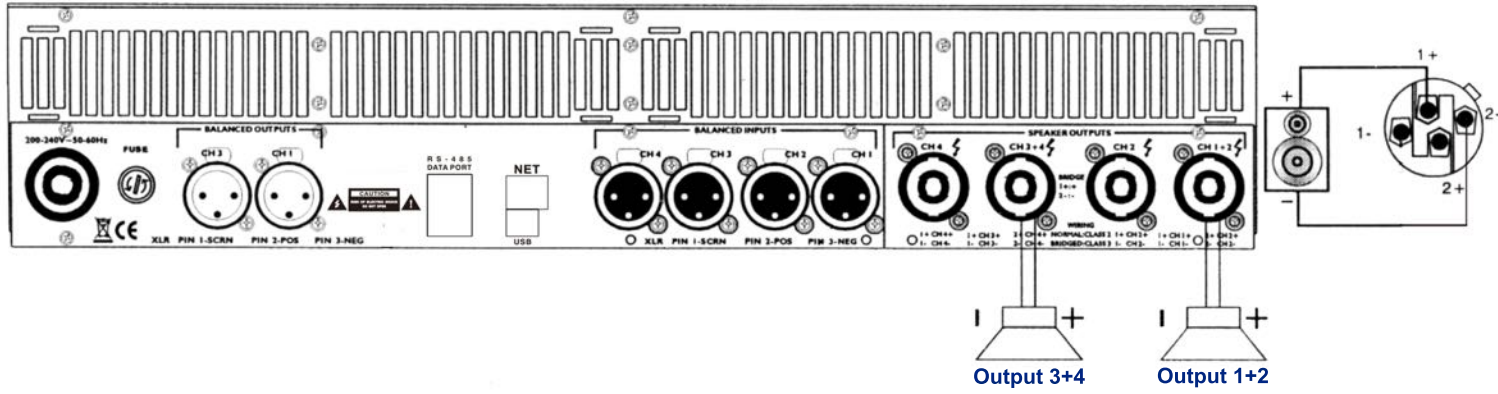
Input Connections

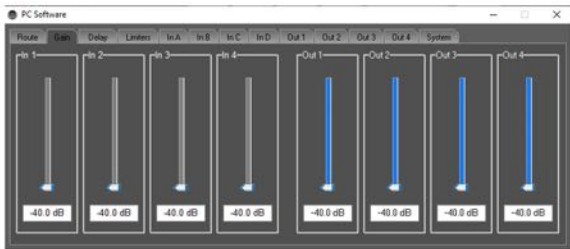


4 Channel Mode



Bridge Mode





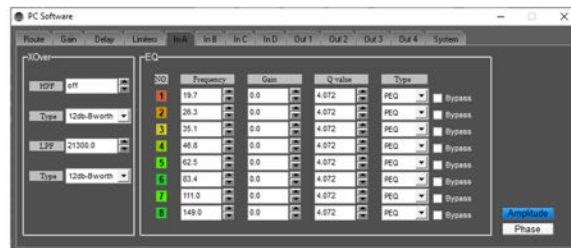
Input & Output Gain Settings



Delay Settings



Limiter Settings



Input Crossover/EQ Settings

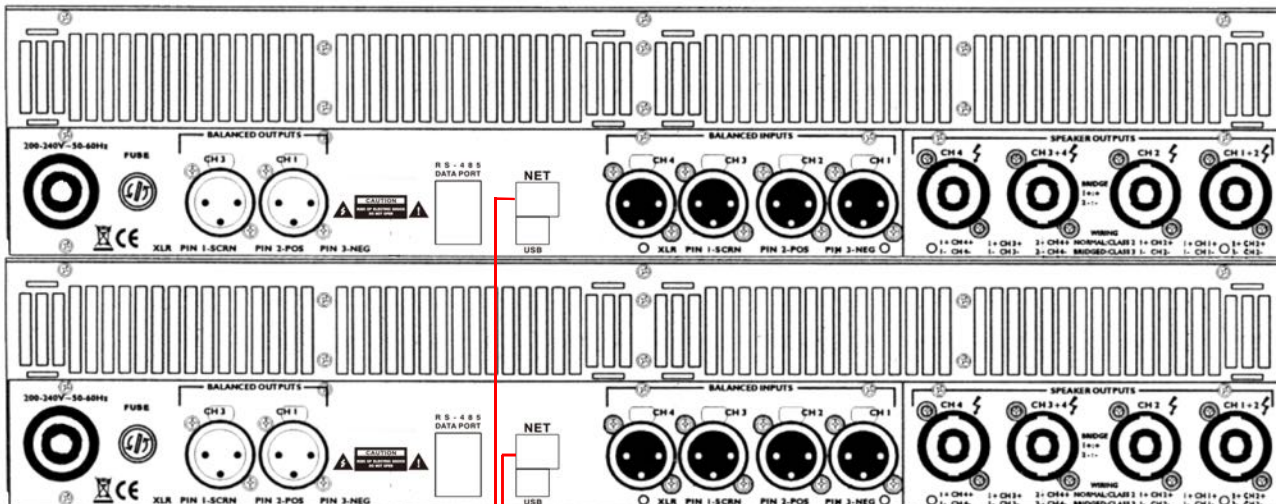


Routing Selection

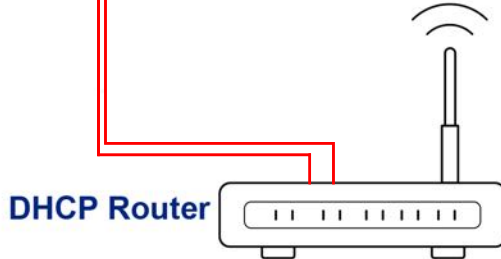


Network/Output Mode Settings

Network Connection:



*Please note Must be connected to DHCP Router/Switch



Overview Screen:

The screenshot shows the APT QDSP-10K software interface. At the top, it displays 'Disconnected' and 'V 2.2.5'. A search bar for the 'Local IP: 10.211.55.7' is present. Below this, there are checkboxes for inputs (In A, In B, In C, In D) and outputs (Out 1, Out 2, Out 3, Out 4). The 'Current Mode' is set to 'Normal', and a 'System' button is visible. The central part of the screen features a 'Crossover/EQ Visual Display' graph with a frequency axis from 20Hz to 20KHz and a gain axis from -30dB to +15dB. Below the graph is a 'Channel Link Button' section with four rows (A, B, C, D) for channels. Each row includes buttons for 'Mute', 'Pol+', 'Gain', 'EQ', 'XOver', 'Route', 'Mute', 'Pol+', 'Gain', 'Delay', 'EQ', 'XOver', 'Limiter', and 'Out' (1-4). A 'Signal Indicator' is shown as a colored line connecting the input and output buttons. At the bottom, there are 'Channel data Copy' and 'Parameter Access Shortcuts' fields, and a 'Current Channel Routing' section. A 'Channel Name' label is also present.

Device IP

Channel Display Option

Amp Output Mode Normal/BTL

System Settings

Crossover/EQ Visual Display

Channel Link Button

Signal Indicator

Channel data Copy

Parameter Access Shortcuts

Current Channel Routing

Channel Name