

SPECIFICATIONS

Power	2 x 120W RMS @ 8 Ohms 2 x 180W RMS @ 4 Ohms
DSP Echo	20BIT processing
Key Control	16BIT processing
Freq' Response	20Hz - 20kHz (+/-3dB)
Mic input Impedance	5mv-100mv/600 Ohm
Line Input Impedance	250mv-47 kOhm
S/N Ratio	85dB
Tone Controls	
Music	2 way +/-10dB
Mic	3 way +/-5dB
Output Impedance	4 to 16 Ohm

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instruction manual

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OVERVIEW

The KKA300 is a sophisticated and powerful microphone mixer, voice processor, effects processor and amplifier in a single integrated unit. It is a superb solution for either the home Karaoke enthusiast or the professional Karaoke performer.

FRONT PANEL CONTROLS

[1] Power switch - use this to turn the mains power on/off. **NOTE Always turn off the mains power and set all volume controls to zero before making and audio connections.**

[2] Input Selection buttons - use these to choose the music source you wish to sing along to. There are four separate line level audio inputs on the KKA300 (see Rear Panel Connections for details) available. They are labeled; DVD, VCD, LD & AUX but you can connect any line level audio equipment.

[3] Input Selection Indicators - each Input Selection Button is accompanied by an LED that lights to show you which music source is selected at a glance.

[4] Music Volume control - use this control to adjust the playback volume of the currently selected music source. **NOTE** this control does not adjust the volume of the microphones or effects.

[5] Music Lock screw - turn this fully clockwise to 'lock' the Overall Music Volume at its current setting. This can be used to prevent accidental adjustment of the music volume setting during performance.

[6] Speaker System Selection buttons - use these buttons to switch speaker systems A and B on/off.

[7] Mute button - use this to temporarily stop all sound being sent to the outputs.

[8] Loudness button - use this to increase/decrease the proportion of low frequencies within your music. Increased low frequencies tend to make music 'seem' to sound louder.

[9] Music Tone controls - use these bass and treble controls to adjust the tone of your music.

[10] Front Panel Microphone Inputs - use these 1/4" Jack type microphone input connectors to connect microphones to Mic channels 1 to 3. Mic inputs 4 & 5 are found on the rear panel. **NOTE** The KKA300 features an automated microphone feedback elimination feature.

[11] Overall Microphone Volume control - use this to set the level of ALL 5 microphones in relation to your source music.

[12] Microphone Volume Lock screw - turn this fully clockwise to 'lock' the Overall Microphone Volume at its current setting. This can be used to prevent accidental adjustment of the various microphone volume settings during performance.

[13] Individual Microphone Volume controls - use these to set the volume of each microphone in relation to the other microphones. The first control adjust the volume of Mic 1, the next control sets the volume of both Mics 2 & 4 and the third control adjusts the volume of Mics 3 & 5.

[14] Microphone Tone controls - use these bass, mid and treble tone controls to adjust the tone of all 5 microphone channels at once.

[15] Microphone Echo button - use this to switch the built in microphone Echo Effect on/off. **NOTE** echo is applied to all mic inputs unless the DJ Mic button **[16]** is engaged.

[16] DJ Microphone button - this button eliminates the Echo Effect from Mic channel 1. It is often desirable to have the microphone used by a DJ/Compere to be free from echo so that their voice remains clear at all times.

[17] Echo Volume control - use this to adjust the volume of the Echo Effect in relation to the volume of your music source and the volume of your microphones.

[18] Echo Delay control - use this to adjust the interval between each echo of the Echo Effect. This can be used to adjust the echo effect in such a way that the timing of the echoes match the Beats Per Minute of the source music and blend seamlessly with the music. Turning clockwise increases the interval between each echo.

[19] Echo Repeat control - use this to adjust how long the echoes of the Echo Effect continue for. Different settings are useful for different types of music. Turning clockwise increases how long the echoes continue for.

[20] Music Key Control buttons - use these buttons to transpose the tone of the source music without altering it's tempo. Each button raises or lowers the music tone by a 'semi-tone'. Using these buttons you can adjust the 'key' of your source music to one that better suits the singers voice or vocal range.

THE REMOTE CONTROL

The KKA300 is supplied with an IR Remote control unit that provides easy access to the functions most commonly used during a Karaoke performance.

[21] Music Source Selection buttons - use these four buttons to choose between the DVD, VCD, LD & AUX music inputs.

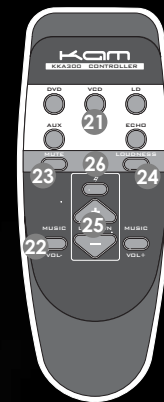
[22] Music Volume buttons - use these to increase or decrease the source music volume.

[23] Mute button - use this to temporarily stop all sound being sent to the outputs.

[24] Loudness button - use this to increase/decrease the proportion of low frequencies within your music. Increased low frequencies tend to make music 'seem' to sound louder.

[25] Music Key Control buttons - use these buttons to transpose the tone of the source music without altering its tempo. Press the plus button to increase by one semi-tone or use the minus button to decrease by one semi-tone.

[26] Microphone Echo button - use this to switch the built in microphone Echo Effect on/off. **NOTE** echo is applied to all mic inputs unless the DJ Mic button **[16]** is engaged.



REAR PANEL CONNECTIONS

[27] Line Inputs (DVD, VCD, LD, AUX) - unbalanced, line level inputs using RCA Phono connectors. These can accept a signal from any line level audio device.

[28] Mic Inputs 4 & 5 - use these two 'combi' sockets to connect microphones to Mic channels 4 & 5. They will accept either 1/4" Jack or XLR type connectors and work with any mic level signal. **NOTE** The KKA300 features an automated microphone feedback elimination feature.

[29] Mic Input Earth Switches - These switches temporarily disconnect 'earth' or 'ground' connection for Mic Inputs 4 & 5. In complex audio set ups it is possible to experience unwanted earth hum problems caused by too many earth connections within the system... using these switches to eliminate the KKA300 Mic input earth may help to solve the issue.

[30] Record Out - connect this unbalanced line level output to the input of a Recording device (MD etc) to record the combined microphone and music signals.

[31] EQ In/Out - use these unbalanced line level connections to send the combined microphone and music signals to an external processor like a graphic EQ. Connect the Out from the KKA300 to the In of your processor, then connect the Out from your processor to the In of the KKA300.

[32] Speaker Outputs - use set A and set B of these Speakon type speaker outputs to connect the KKA300 to your speakers.

[33] Mains Power - use the IEC type mains inlet to supply mains power to the unit. Use the Power switch to turn the unit on/off.

[34] Power earth lift - use this to temporarily disconnect the earth from the power supply to the unit. In complex audio set ups it is possible to experience unwanted earth hum problems caused by too many earth connections within the system... using this switch to eliminate the mains input earth may help to solve the issue.

