

# UC4

# UNIVERSAL COMBO

## OWNER'S MANUAL

The UC4 Universal Combo is just that: universal. Possible uses include keyboard amplifier, acoustic guitar amplifier, powered monitor, self-contained P.A. system and many other uses. The unique wedge shape and stand-mounting adapter allow the UC4 to be positioned in many different ways to suit any performance or public address situation.

### FRONT PANEL FEATURES

(Left to Right)

1. **INPUT 1 – 4:** Controls the volume of sources plugged into channels 1 through 4. Start with the Master Volume set as described in #8, and slowly bring each channel up to the desired volume.
2. **EFFECTS 1 – 4:** Controls the amount of each channel being sent to the internal Accutronics reverb, as well the Effects Send jack on the rear panel.
3. **LO EQ CONTROL:** Controls the frequencies below 125Hz. There is 15 dB of available boost and cut, shelving type.
4. **LO MID CONTROL:** Controls the lo-mid frequencies centered around 250 Hz. There is 15 dB of available boost or cut, peak/dip type.
5. **HI MID CONTROL:** Controls the hi-mid frequencies centered around 1 kHz. There is 15 dB of available boost and cut, peak/dip type.
6. **HI EQ CONTROL:** Controls the frequencies above 4 kHz. There is 15 dB of available boost and cut, shelving type.
7. **REVERB MASTER:** Master volume for the internal spring reverb return. This control does not affect the external Effects Loop.
8. **MASTER VOLUME:** Controls overall output volume of the UC4. Set this control to approximately 12 o'clock to 3 o'clock for most live performance situations.
9. **HEADPHONE JACK:** Used to connect external headphones. This jack is compatible with headphones ranging from 8 to 600 ohm impedance.
10. **PHANTOM POWER SWITCH:** 15 VDC Phantom power is applied to the XLR input jacks when this switch is pushed in. Use a small screwdriver or similar object to operate the switch. **DO NOT OPERATE THIS SWITCH WHILE THE AMPLIFIER IS TURNED ON! A VERY LOUD THUMP COULD OCCUR WHICH COULD DAMAGE THE SPEAKERS, YOUR HEARING, OR BOTH!**
11. **PHANTOM POWER LED:** This yellow LED is illuminated when the Phantom Power is on.
12. **POWER ON LED:** This green LED is illuminated when power is applied to the UC4.
13. **POWER SWITCH:** Applies mains power to the UC4 when in the UP "1" position.

## REAR PANEL FEATURES

(Left to Right)

1. **VOLTAGE SELECTOR SWITCH:** Set the Voltage Selector Switch to correspond to your local mains voltage. USA voltage is 115V.
2. **POWER INLET:** Connect the appropriate power cord to the inlet, and then connect to a properly wired, grounded power source. The AC mains fuse and a spare fuse are located in the small compartment at the bottom of the inlet. Replace these fuses with the same rating and type as indicated on the voltage chart on the left side of the chassis.  
**CAUTION: NEVER DEFEAT OR REMOVE THE GROUNDING PIN ON THE AC CABLE. SERIOUS SAFETY HAZARDS COULD RESULT FROM THE REMOVAL OF THE SAFETY GROUND.**
2. **SPEAKER JACK:** The speaker jack is used to connect the UC4 to the built in speaker. NEVER CONNECT A LOAD THAT IS LOWER THAN 8 OHMS TOTAL IMPEDANCE TO THE UC4. DOING SO COULD DAMAGE THE UNIT AND VOID THE WARRANTY.
3. **SPEAKER ON/OFF SWITCH:** Used to switch the speaker on or off. Uses include silent practice with headphones, or studio use.
4. **GROUND LIFT SWITCHES:** These switches are used to eliminate ground loops when the Direct Out and Preamp Out XLR jacks are used. The lift position disconnects pin 1 of the XLR jack. Use the position that results in the least noise and hum.
5. **PREAMP OUT XLR JACK:** This is a balanced, line level (0 dBm) XLR output. It is post EQ, post effects and post Master Volume. It is normally used to drive an external power amplifier, or as an additional high level direct output. This output is phantom power protected.
6. **DIRECT OUT XLR JACK:** This a balanced, microphone level (-40 dBm) XLR output. It is pre EQ, pre effects and pre Master Volume. This output is normally used to send a signal to a P.A. system or recording console. This output is phantom power protected.
7. **EFFECTS SEND:** This unbalanced, ¼" jack sends a line level (0 dBm) signal from the channel effects sends to an external effects device. This jack may also be used as an additional line output.
8. **EFFECTS RETURN:** This unbalanced, ¼" jack receives the signal from an external effects device. Use the Input, Output and Mix controls on the external device to control the relative level and wet/dry mix of the processed signal.
9. **BALANCED MIC INPUTS 1 – 4:** These inputs accept standard, balanced XLR type cables. Either dynamic or condenser low impedance microphones may be used. If using condenser microphones, switch on the Phantom Power BEFORE turning on the power to the UC4. DO NOT OPERATE THE PHANTOM POWER SWITCH WHILE THE AMPLIFIER IS TURNED ON! A VERY LOUD THUMP COULD OCCUR WHICH COULD DAMAGE THE SPEAKERS, YOUR HEARING, OR BOTH!
10. **INST. INPUT 1 – 3 AND LINE INPUT 4:** These inputs accept standard, unbalanced ¼" instrument cables. Channels 1 – 3 are for low level sources such as Hi-Z microphones, most acoustic guitar pickups, and most keyboards. Channel 4 will accept high level sources such as CD players, tape decks, some keyboards and some acoustic guitar pickups with very hot preamps.

## TECHNICAL SPECIFICATIONS

<b><u>OUTPUT POWER:</u></b>	135 watts RMS continuous into an 8 ohm minimum load.
<b><u>S/N RATIO:</u></b>	Better than 90 dB.
<b><u>HUM &amp; NOISE:</u></b>	Better than -65 dBv.
<b><u>THD:</u></b>	Less than .1%
<b><u>INPUT IMPEDANCE</u></b>	Balanced XLR Input:: 4.7k ohm for use with 150 – 600 ohm microphones. Unbalanced Inst. and Line inputs: 47k ohm.
<b><u>EQUALIZATION:</u></b>	± 15 dB @ 125Hz, 250 Hz, 1kHz and 4kHz.
<b><u>REVERB TYPE:</u></b>	Internal Accutronics spring.
<b><u>HEADPHONE JACK:</u></b>	8 ohm minimum.
<b><u>EFFECTS SEND</u></b>	1k ohms.
<b><u>EFFECTS RETURN:</u></b>	4.7k ohm.
<b><u>SPEAKERS:</u></b>	1 GBE1241B, 1 LeSon Tweeter.
<b><u>SPEAKER STAND ADAPTER</u></b>	Fits standard 1 ½" speaker stands.
<b><u>COOLING:</u></b>	Internal fan cooled. Do not block air vents at front and rear of chassis.
<b><u>DIMENSIONS:</u></b>	23"H X 16"W X 15 ½"D
<b><u>WEIGHT:</u></b>	45 lbs.

## BLOCK DIAGRAM

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