



# AXSGTR® | Axess Electronics™

## User Manual

### COMPATTX™ UNITY+™

**Compatta/o** [kom·patta and kom·patto] are the Italian, feminine and masculine noun translations for 'compact'.

The COMPATTX™ Unity+™ is a multipurpose unity gain voltage amplifier. It's unlike any buffer we've designed before, and includes a brand new studio grade op-amp, 15 user selectable filters, and high headroom. Use one or more as an input buffer, an output line-driver and/or as a balanced long-line transmitter. It can also be used to buffer an amplifier's effects loop.

Use the Unity+™ as an input buffer by plugging your guitar directly into it. This will safeguard, strengthen and prepare your guitar's signal for whatever follows in the signal path.

Internally select one of the 15 different filters to get either the plugged-in direct to your amp tone, or the one that matches the loaded down (by your existing pedalboard) tone, or choose something in between. Whichever filter you decide on, rest assured that the Unity+™ will NOT load down your guitar's pickups or signal.

Use the Unity+™ as an output line-driver after the last pedal on your pedalboard to drive the long cable run to a back-line amp. It can drive very low input impedance loads and has superb capacitance drive capabilities which means long lengths of cable and/or daisy-chained passive splitters such as the COMPATTX™ IsoPlus™ will never be an issue.

For extra long (up to 330ft./100m) cable runs between a pedalboard and a backline amp, with greater noise immunity, use a ¼" TRS (tip-ring-sleeve) balanced cable between the Unity+™ and IsoPlus™.

You can even use it to buffer your amplifier's passive effects loop or to improve the load drive capability of an active effects loop.

## I/O DESCRIPTION

**BLUE LED** indicates the Unity+™ is receiving power, when it's illuminated.

**INPUT** is a ¼" TS (tip-sleeve) jack that accepts either an instrument level guitar signal or a line level signal from many other sources.

**OUTPUT** is a ¼" TRS (tip-ring-sleeve) jack that is meant to be connected to the input of an amplifier, effect pedal, loop switcher, patch-box or our COMPATTX™ IsoPlus™ via standard ¼" TS instrument cable.

*For extra long (up to 330ft./100m) cable runs between a pedalboard and a backline amp, with greater noise immunity, use a ¼" TRS (tip-ring-sleeve) balanced cable between the Unity+™ and IsoPlus™.*

**9VDC** is the external power supply jack and it accepts a standard 2.1mm x 5.5mm male barrel plug from a 9VDC wall-wart power adapter or pedalboard power supply with a **NEGATIVE CENTER** plug. Refer to the **SPECIFICATIONS** section for additional information and maximum operating voltage(s).

**⚠ ATTENTION ⚠** Do NOT connect any other DC Voltage or AC Voltage power supply to this jack, other than that specified in this section and in the **SPECIFICATIONS** section. Doing so will result in damage — voiding the warranty.

## FILTER SELECTION

Inside, the Unity+™ includes 15 user selectable filters. Depending on the Unity+™ version, filter selection can be made via an opening on the bottom of the enclosure or by removing the four (4) Philips head screws from the bottom of it (underneath the rubber feet). Filter selection instructions are included either on the bottom of the enclosure or inside — depending on the version.

The factory default setting is full-range and should be suitable for most output buffer or line-driver applications, but if you'd like to experiment with the filters, feel free to do so.

If using the Unity+™ as an input buffer for your guitar, experiment and select the filter that gives you either the; plugged-in direct to your amplifier tone, the one that matches the loaded down by your existing pedalboard tone, choose something in between, or choose nothing at all, and go with the factory default. Whichever filter you decide on, rest assured that the Unity+™ will NOT load down your guitar's pickups or signal.

## SPECIFICATIONS

Input Impedance: 1MΩ  
Output Impedance, Balanced: ≤40Ω  
Output Impedance, Unbalanced: ≤20Ω  
Operating Voltage: 9VDC  
Maximum Operating Voltage: 12VDC  
Power Jack: 2.1x5.5mm Barrel **⊕-G-⊖**  
Current Draw: Less than 100mA@9VDC  
Dimensions (LxWxH): 3.72x1.55x1.29inch  
94.5x39.4x32.8mm  
*Specifications subject to change without notice.*

**⚠ ATTENTION ⚠** Some switched-mode power supplies (SMPS) and wall-wart power adapters are noisier than others, which can result in an audible high-pitch "whine". Trying to run too many devices from a single adapter or power supply output can also result in noise and/or an audible "whine". If this occurs, we recommend either trying another wall-wart power adapter or a pedalboard power supply with enough isolated outputs to power every device/effect on your pedalboard individually; better power equals less noise = more tone!!

## CONNECTION DIAGRAMS

Click the links below (to our site) for hi-res PDF diagrams of the Unity+™ in action.

[First Step to Great Consistent Tone](#)

[Second Step to Great Consistent Tone](#)

[Balanced Extra-Long Cable Run \(Mono\)](#)

[Balanced Extra-Long Cable Run \(Stereo\)](#)

[Stereo Amp Rig w/Hum-Free Consistent Tone](#)

[Patch-Box Output & FX Loop Buffer Add-Ons](#)

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