**Non-amplified Audio Connections**

Balanced Stereo Input (high impedance)

-41.6 dB to +17.5 dB

Balanced Stereo Output (high impedance)

-10 dBV (approximately) consumer signal.

Unbalanced Mono Input (high impedance)

+4 dBu (1.23 Vrms), +30 dBv (300 mVrms), +40 dBu (12V), +40 dBv (120mVrms)

Unbalanced Stereo Input (high impedance)

-10 dBV (approximately) consumer signal.

Mono Output

For mono output, wire the left or the right side (not both).

Output level options:

-16 dBV (0.316 Vrms), unbalanced output; for consumer level devices such as VCRs, self-powered speakers, and stereo.

-4 dB (1.22 V), balanced.

Gain/attenuation

Carefully "trim" to set appropriate gain for professional device such as preamps, mixes, digital processors, and power amplifiers.

CAUTION

Do not connect speakers to the MLC’s amplifier output until setup has been completed and volume has been set to the minimum level.

**Configuring Lineout and Preamp output levels**

Prior to connecting the output to a professional device such as a power amplifier, output the proper signal on the Lineout and Preamp outputs, and prevent noticeable jumps in audio levels during input switching.

1. Leave the bass and treble set to 0 and the loudness control set to off (default). Adjust the audio settings.
2. Select the MLC-406SA’s input with the active input signal.
3. Adjust the audio input level via the front panel or control software until the desired output level is reached and/or the Mid/Normal LED turns on.
4. Fine tune levels including bass, treble, and loudness once all output levels are adjusted.

**Making adjustments**

- Leave the audio level and treble set to 0 and the loudness control set to off (default) prior to adjusting the input level (sensitivity). Audio input levels must be adjustable with a wide dynamic range. The material should have dual passageway representative of what will be used in the system.

**Setup/Configuration: Optimizing the Audio**

The Extron MLS 406SA is a six-input switcher with an integrated audio amplifier. Select the MLS 406SA’s input with the active input signal.

1. Leave the bass and treble set to 0 and the loudness control set to off (default).
2. Select the MLC-406SA’s input with the active input signal.
3. Adjust the audio input level via the front panel or control software until the desired output level is reached and/or the Mid/Normal LED turns on.
4. Fine tune levels including bass, treble, and loudness once all output levels are adjusted.

**Audio level adjustments can be made in 1 dB increments/decimals via the front panel or control software. Refer to the user’s manual for instructions.**

Because there are many different output levels for source devices, Extron recommends that you adjust the input level(sensitivity) for each input. When making these adjustments, use source material with a wide dynamic range. The material should have dual passageway representative of what will be used in the system.

**CAUTION**

Because there are many different output levels for source devices, Extron recommends that you adjust the input level(sensitivity) for each input. These items are reset:

- volume (41)
- Aux/Mix (on)
- executive mode (off)
- video type (inputs 4-6 = RGB)
- line level and amp out (stereo)
- loudness (off)
- audio gain/attenuation (+6 dB)

These items are not reset:

- mute
- freeze
- volume (41)
- Aux/Mix (on)
- executive mode (off)
- video type (inputs 4-6 = RGB)
- line level and amp out (stereo)
- loudness (off)
- audio gain/attenuation (+6 dB)

**Gain/Attenuation**

The three 10-pH units inputs (A, B, and C) are balanced, in line level. These inputs have fixed and/or variable unbalanced outputs. If connecting a variable level input to the input of a professional product such as a mixer, the frequency response may be affected. Check manufacturers’ specifications for details on input/output devices that are connected.

**Fine-tune levels**

- Leave the audio level and treble set to 0 and the loudness control set to off (default) prior to adjusting the input level (sensitivity). Audio input levels must be adjustable with a wide dynamic range. The material should have dual passageway representative of what will be used in the system.

**Making adjustments**

- Leave the audio level and treble set to 0 and the loudness control set to off (default) prior to adjusting the input level (sensitivity). Audio input levels must be adjustable with a wide dynamic range. The material should have dual passageway representative of what will be used in the system.

**Setup/Configuration: Optimizing the Audio**

- Leave the audio level and treble set to 0 and the loudness control set to off (default). Adjust the audio settings.
- Select the MLC-406SA’s input with the active input signal.
- Adjust the audio input level via the front panel or control software until the desired output level is reached and/or the Mid/Normal LED turns on.

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- audio gain/attenuation (+6 dB)

These items are not reset:

- mute
- freeze
- volume (41)
- Aux/Mix (on)
- executive mode (off)
- video type (inputs 4-6 = RGB)
- line level and amp out (stereo)
- loudness (off)
- audio gain/attenuation (+6 dB)