



### Introduction

The 6306 is the first product in the new TAPCO by Mackie® family, designed for live sound applications and an exceptional price/performance ratio.

Its small size belies its many features, including two mic inputs, two instrument inputs, two stereo line inputs, two aux sends, a stereo aux return, tape in and out, and stereo control room and phones outputs in addition to the main outputs.

The TAPCO 6306 is designed for rugged, 24-hours-a-day use. Its sturdy construction houses durable double-sided SMT-plated fiberglass circuit boards. Impact-resistant knobs are mounted so they "ride" just above the steel chassis, absorbing impact to minimize damage.

The 6306 has two mono mic/line channels with input gain controls and level-set LEDs. The balanced XLR mic inputs have switchable phantom power, and the 1/4" TRS instrument input jacks accept balanced or unbalanced line-level signals. In addition, it has two stereo line-input channels, accepting balanced or unbalanced line-level input signals. All the channels have high and low EQ controls, one monitor aux send (pre-fader), one effects aux send (post-fader), a pan control (balance control on the stereo channels), and a rotary level control.

The channel EQs are comprised of a 12 kHz high-frequency shelving EQ, and an 80 Hz low-frequency shelving EQ.

The Aux Return to Mains knob controls how much of the effects signal to add to the main mix. The Aux Return to Monitors knob lets you add effects to the stage monitor mix independent of the the effects levels added to the main mix.

The outputs on the 6306 include TRS balanced/ unbalanced main outputs, control room outputs, and aux sends, RCA tape outputs, and a TRS stereo headphones output.

The control room output can be switched between the main stereo bus or the stereo tape input. The "Tape to Main" switch can also route the tape input to the main stereo bus.

The 8-segment LED meters indicate the signal level at the control room/phones outputs.

The TAPCO 6306 is designed for continuous operation in any sound reinforcement and mixing application. It's packed with useful features and practical routing capabilities. Simply stated, this mixer offers more features, more peace of mind, and more possibilities than any other mixer in its class.



#### **Features**

- Two high-headroom mic preamps
- Two mono mic/line, two stereo line channels
- Pre-fader aux (monitor) send
- Post-fader aux (effects) send
- Effects-to-main control
- Effects-to-monitor control
- Level set gain-setting indicator LEDs
- 2-band EQ, Pan (mono channels) and Balance (stereo channels) controls on all channels
- Headphone output with level control
- Control room output with level control
- 8-segment stereo LED metering
- CD/Tape stereo inputs with Tape to Mix switch and Tape to Control Room switch
- Master +48 V phantom power switch with LED indicator
- Power LED indicator

## **Applications**

- Live sound mixing for small to mediumsized clubs
- Live sound mixing for meeting rooms and churches
- Desktop studio mixing and recording





### **SPECIFICATIONS**

**Frequency Response** 

Mic Input to any Output (Trim at 0 dB):

+0.-1 dB.20 Hz to 20 kHz -3 dB,

10 Hz to 80 kHz

**Distortion** 

THD and SMPTE IMD; 20Hz to 20kHz

Mic Input to Main Output:

< 0.025%

@ +4 dBu output

**Noise** 

20Hz to 20kHz BW (150 $\Omega$  source impedance)

Equivalent Input Noise (EIN): -128 dBu

Residual Output Noise:

Channel & Main Mix levels off

Main, Ctrl Room, Phones: -102 dBu Aux 1 Monitor out -82 dBu Aux 2 EFX out -92 dBu

Common Mode Rejection Ratio (CMRR)

Mic In: 60 dB @ 1kHz Gain @ maximum

Crosstalk

Adjacent Inputs or Input to Output:

-85 dB @ 1kHz

**Input Gain Control Range** 

Mic In: +3 dB to +50 dB Line In: -22 dB to + 25 dB

**Phantom Power** 

+48 VDC

**Eaualization** 

Mono Channel EQ:

High ±15 dB @ 12 kHz ±15 dB @ 80 Hz Low

Stereo Channel EQ:

**Mixer Rated Output** 

High ±15 dB @ 12 kHz ±15 dB @ 80 Hz

Low

Main, Aux, Control Room: +4 dBu Maximum Rated Output: +18 dBu

**Maximum Input Levels** 

Mic Input: +18 dBu, Gain @ +3 dB +18 dBu, Inst Input: Gain @ -22 dB

Stereo Line Input, Tape Input, and Aux Return:

+18 dBu

**Maximum Voltage Gain** 

Mic Input to:

Main Output: 74 dB Tape Output: 74 dB Aux Sends: 74 dB Control Room Output: 84 dB Phones Output: 84 dB Inst Input to:

49 dB Main Output: Tape Output: 49 dB Aux Sends: 49 dB Control Room Output: 59 dB Phones Output: 59 dB

Stereo Line Input to:

Phones Output:

Main Output: 20 dB Tape Output: 20 dB Aux Send: 20 dB Control Room Output: 30 dB 30 dB

Tape Input to:

Main Output: 10 dB Tape Output: 10 dB Control Room Output: 10 dB 10 dB Phones Output:

Aux Return to:

Main Output: 20 dB Tape Output: 20 dB Aux Send: 20 dB Control Room Output: 30 dB Phones Output: 30 dB

Input Impedance

 $2.3 \, \mathrm{k}\Omega$ , balanced Mic Input:

Inst Input:  $1 M\Omega$ 

Stereo Line Input:  $20 \text{ k}\Omega$ , balanced  $20 \text{ k}\Omega$ , balanced Stereo Aux Returns: CD/Tape In:  $24 k\Omega$ , unbalanced

**Output Impedance** 

Main, Ctrl Room, Aux Sends:  $120 \Omega$ Tape Output:  $1 k\Omega$ Phones Output:  $25 \Omega$ 

**Channel Level Set LED (Sensitivity)** 

OdBu (normal operating level)

**VU Meters** 

Main Left and Right

8 segments:

Clip (+16), +12, +8, +4, 0, -2, -4, -12, -24

 $0 \stackrel{\cdot}{\text{LED}} = +4 \stackrel{\cdot}{\text{dBu}}$ 

**AC Power Requirements** 

External Power Supply output:

9.0 VAC @ 1500 mA

(2.5 mm AC coaxial power connection)

External Power Supply AC input

120 VAC, 60 Hz 240 VAC, 50 Hz 100 VAC, 50/60 Hz U.S. Europe Japan 220 VAC, 60 Hz Korea

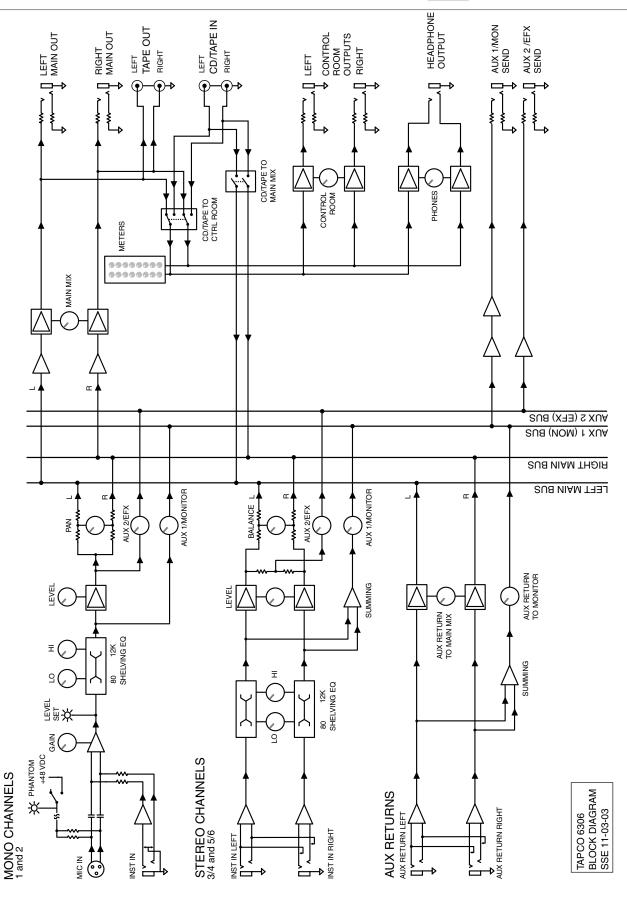
**Physical Dimensions and Weight** 

Height: 2.6 in/66.7 mm Width: 8.3 in/209.6 mm Depth: 10.5 in/266.7 mm Weiaht:  $3.5 \, lb / 1.6 \, kg$ 

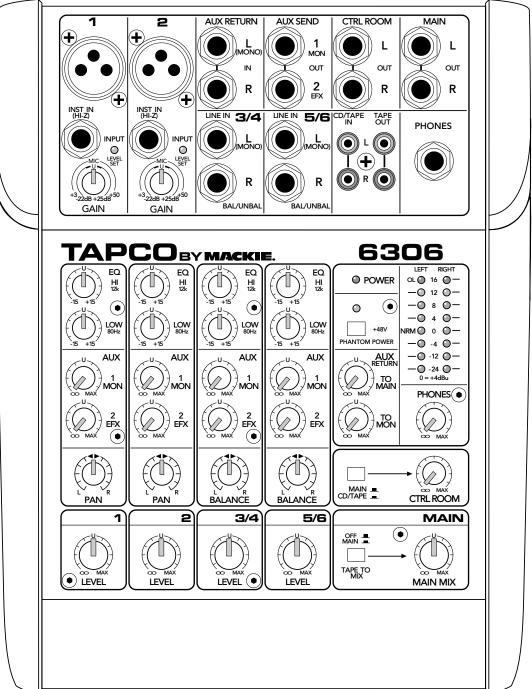
**Disclaimer** 

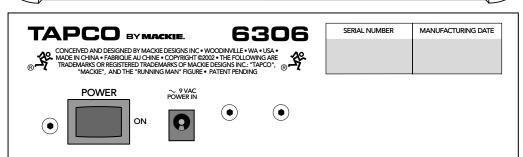
Since we are always striving to make our products better by incorporating new and improved materials, components, and manufacturing methods, we reserve the right to change these specifications at any time without notice.















# CSI PRODUCT SPECIFICATIONS FOR DESIGNERS, SPECIFIERS, AND CONSULTANTS

(Also known as "A&E Specifications")

The following are "Part 2 Products" CSI-type specifications. It is assumed that "Part 1 General – Administrative and Procedures" and "Part 3 Execution – Installation and Maintenance" will be part of an overall audio system or project specification.

#### **PART 2 PRODUCTS**

- 2.01 Approved Manufacturer/Product
  - A. TAPCO, 16220 Wood-Red Road NE, Woodinville, WA 98072
  - B. Model number: 6306
- 2.02 Design
  - A. Configuration: 6-channel audio mixer
    - 1. Inputs:
      - a. Two mono mic/line inputs (two XLR mic-level input jacks and two 1/4" TRS line-level input jacks)
      - b. Two stereo line inputs (four 1/4" TRS line-level input jacks)
      - c. One stereo aux return (two 1/4" TRS line-level input jacks)
      - d. One stereo CD/Tape input (two RCA line-level input jacks)
    - 2. Outputs:
      - a. One stereo main output (two 1/4" TRS line-level output jacks)
      - b. One stereo control room output (two 1/4" TRS line-level output jacks)
      - c. Two mono aux sends (two 1/4" TRS line-level output jacks)
      - d. One stereo tape output (two RCA line-level output jacks)
      - e. One stereo headphone output (one 1/4" TRS line-level output)
  - B. Powering Mode: External AC power supply, 9.0 VAC @ 1500 mA
- 2.03 Electrical Properties
  - A. Frequency Response (+0, -1 dB):

20 Hz to 20 kHz

B. Total Harmonic Distortion (20 Hz to 20 kHz @ +4 dBu output):

< 0.025%

- C. Noise (20 Hz to 20 kHz BW, 150 ohm source impedance):
  - 1. Equivalent Input Noise (EIN):

-128 dBu

2. Residual Output Noise (channel and Main Mix level controls off @ Main Outputs):

-102 dBu

D. Common Mode Rejection (@ 1 kHz, Gain at maximum):

60 dB

E. Crosstalk (@ 1 kHz, adjacent inputs or input to output):

-85 dB

F. Input Gain Control Range:

1. Mic In: +3 dB to +50 dB 2. Line In: -22 dB to +25 dB

G. Phantom Power: +48 VDC

H. Equalization

High EQ: ±15 dB @ 12 kHz
Low EQ: ±15 dB @ 80 Hz

I. Rated Output:

1. Nominal Output: +4 dBu

2. Maximum Output: +18 dBu

2.04 Physical Properties

A. Dimensions

Height: 2.6 in/66.7 mm
Width: 8.3 in/209.6 mm
Depth: 10.5 in/266.7 mm

B. Weight

1. Net Weight: 3.5 lb/1.6 kg



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Electronic files for this product available at: www.tapcogear.com

| This Specification Sheet | TAPCO6306_SS.PDF |
|--------------------------|------------------|
| Owner's Manual           | TAPCO6306_OM.PDF |
| CADD files               | TAPCO6306.DXF    |

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