

# TEK 40/70v Amplifier

## 78040-40/70 Data Sheet

The TEK-70/40 is a compact-size amplifier that features alternative 70V or 100V output. It has 2 stereo inputs, 1 digital audio input, and 1 MIC input. The TL-A70-40W can be controlled by button, IR, or RS232 command. It includes powerful functions, including ducking, EQ control, MIC mixer. The TEK 70/40 amplifier is great for classroom and training room amplification including speech reinforcement.

70/100v amplifiers have a higher signal voltage than conventional stereo audio amplifiers (commonly referred to as "8 Ohm" systems) and allow for more speakers and longer signal distances. This is ideal for any room or building requiring more than two speakers. These systems are commonly used in paging or background music applications, but are a great way to distribute audio anywhere using a very simple wiring concept.

### Features:

- Switchable 70V or 100V output
- Selectable 3-level microphone input
- Controllable via RS-232 commands, IR remote, or front panel buttons
- 16 ID codes for individual unit identification via RS-232
- 48dB of microphone gain w/ phantom power
- Microphone mixing with source audio
- Shipped fully functional, pre-programmed, and rigorously tested



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## 78040-40/70 Technical Specifications

<b>Inputs</b>	2 Stereo Audio (RCA/3.5mm mini jack) 1 Digital Audio (Optical jack)
<b>Control Ports</b>	1 IR Input (3.5mm mini jack) 1 RS-232 (3 Pin Phoenix)
<b>MIC Signal Type Selector</b>	1 3-position slider switch
<b>Output</b>	Constant-voltage 70V or 100V @ 40W
<b>Input Impedance</b>	>10k $\Omega$
<b>Frequency Response</b>	120Hz ~ 20kHz
<b>Common-Mode Rejection Ratio (CMRR)</b>	>70dB @ 20Hz~20kHz
<b>Signal-to-Noise Ratio (SNR)</b>	80dB (Max)
<b>Total Harmonic Distortion (THD) + Noise</b>	1% @ 1kHz, 0.3% @ 20kHz at nominal level
<b>Voltage Gain</b>	26dB
<b>Temperature</b>	14 ~ 104°F (-10 ~ 40°C)
<b>Humidity</b>	10 ~ 90%
<b>Power Consumption</b>	45W (max)
<b>Power Supply</b>	Input: 100 ~ 204V AC Output: DC 24V, 2.5A
<b>ESD Protection</b>	15kV
<b>Product Dimensions</b>	5.12" (130mm) x 1.73" (44mm) x 5.67" (144mm)
<b>Product Weight</b>	2.43 lbs. (1.1kg)

Specifications are subject to change without notice