



- **Classic Variable-Mu compression profile and vintage tone**
- **Six 670 time constants plus two vocal- friendly variations**
- **Three Modes of Compression**
- **All analog - no latency or conversion**
- **Standard 3U rack format**
- **One Year Parts and Labor Warranty**

The Fairchild 670 limiter is arguably one of the most famous and sought-after stereo compressors ever made. The magical way it adds density and dimension to a track or a mix has been demonstrated on many of the best-sounding records made in the last 50 years. For buss compression, the 670 Limiter is the standard by which all others are judged.

The AM670 is a faithful recreation of the classic sound and compression profile of the 670, using the AnaMod™ process to model the complex tube circuitry of the 670 and implement it entirely in the analog domain. Unlike a digital plug-in or processor-based outboard gear, there is no latency, and no A/D or D/A conversions to compromise the sound. All the functions of the original 670 have been condensed into three rack spaces.

Like the Fairchild 670, the AM670 has Left/Right (dual mono), and Lat/Vert (M-S encode/decode) modes of dynamics processing. In addition, AM670 also has a Stereo mode, which links sidechains of the two channels.

### AM670 Specifications

Format: Three space (5.25") EIA standard rack mount  
 Input Impedance: 20KΩ, balanced  
 Output Impedance: less than 50Ω  
 Max. Output Level: +22dBu, balanced or unbalanced  
 Input Gain: -15 to +15 dB  
 Frequency Response: +/- 1 dB from 40Hz to 15kHz  
 Noise Level: better than 73dB below +4dBu, 0-30kHz  
 Limiting Noises: same level as a vintage 670 with GE five star 6386 tubes and properly balanced  
 Total Harmonic Distortion: level- and compression-dependent  
 Compression Ratio: Variable from 1: 1 to 20:1, level-dependent

### Automatic Gain Control (AGC) Modes

Left/Right: Dual Mono (split) operation  
 Stereo: Left and Right channels are linked  
 Lat/Vert: Left and Right channels are Mid-Side (M-S) encoded, compressed separately, and decoded back to Left/Right.

### Time Constants

1- 6 are the classic 670 time constants  
 2a and 2b are variations on #2

Position	Attack Time	Release Time
1	0.2ms	0.3s
2	0.2ms	0.8s
2a	0.2ms	1s
2b	0.2ms	2s
3	0.4ms	2s
4	0.8ms	5s
5	0.4ms	Auto, as in 670 #5
6	0.2ms	Auto, as in 670 #6