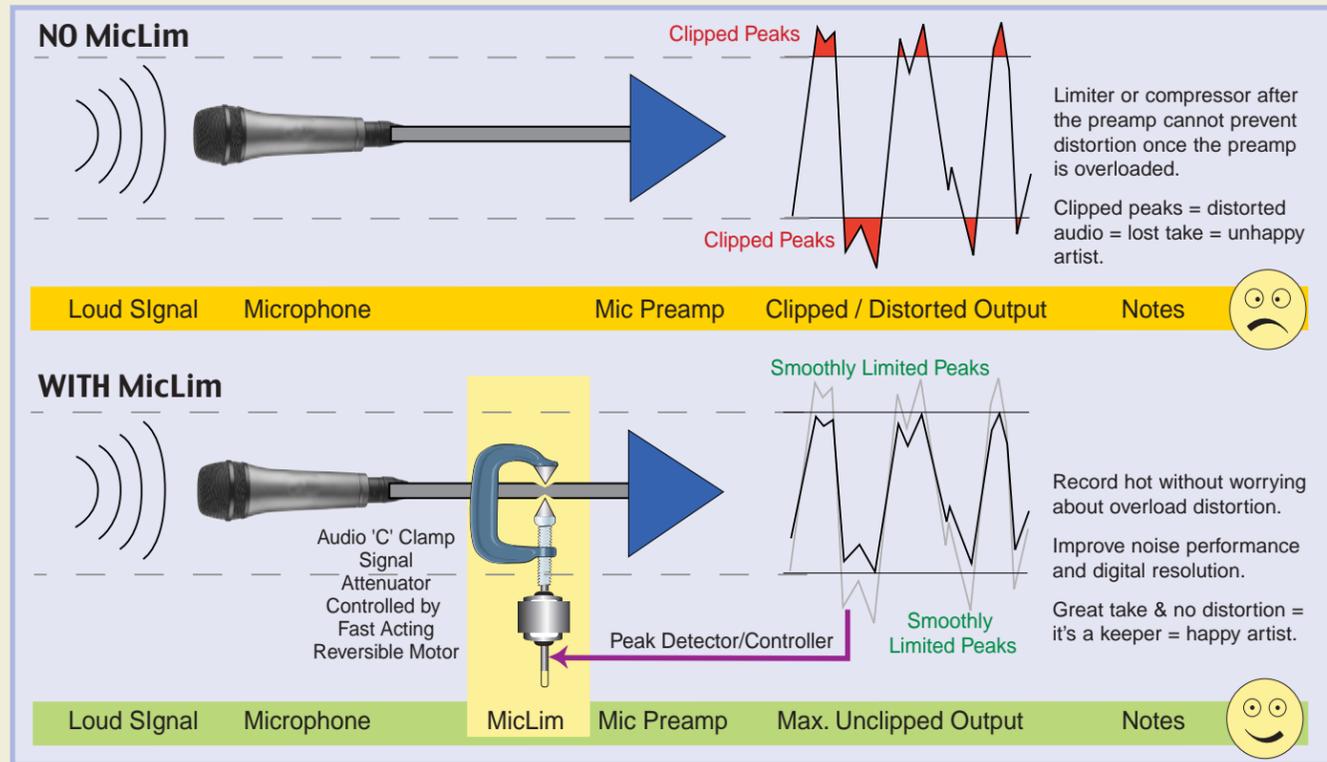


## MicLim vs. no MicLim



The MicLim is custom designed optical attenuator, located directly on the mic input line that smoothly limits the microphone's output signal according to the MicLim peak detector's control current. Since attenuation comes prior to preamplification, the patented MicLim can increase the Model 207's effective headroom by up to 20dB.

MicLim detects the preamp's output signal and instructs the input attenuator to proportionately reduce the microphone's output level just enough to prevent clipping. MicLim has no effect at all when the preamp's output level is not approaching clipping.

## MODEL 207 SPECIFICATIONS

	Operating Level	+4dBu	-10dBv (-7.8dBu)
<b>AUDIO:</b>			
Frequency Response:	+0, -0.5dB 30Hz-30kHz		
EIN:	-129dBu (input shorted)		
Crosstalk (10Hz-22kHz):	-79dB or better		
THD (10Hz-22kHz @-11dBfs):	<0.18%		
Tube Type:	12AT7/ECC81 Dual Triode		
<b>INSERT:</b>			
Connector:	1/4" TRS phone jack		
Send:	Tip		
Return:	Ring		
Nominal Operating Level:	-10dBV (316mVRMS)		
Point of Insertion:	Between front-end and Tube Output Stage		
<b>Other Specifications:</b>			
Power Requirements:	90-250VAC, 50-60Hz		
Power Consumption:	12W		
Dimensions:	19"W x 1.75"H x 8.25"D (482.6mm x 44.5mm x 209.6mm)		
Depth behind front panel:	7.5" (190.5mm)		
Net Weight (Rackmounted):	6lbs (2.73kg)		
Shipping Weight:	9lbs (4.1kg)		
<b>MIC INPUT:</b>			
Connector:	XLR-3F		same
Type:	Transformerless, NPN active balanced		same
Balanced:	2K $\Omega$ nominal		same
Maximum Level:	0dBu		same
CMRR:	Greater than 70dB @60Hz		same
Nominal Preamp Gain:	20 to 65dB minus OUTPUT TRIM loss		8 to 53dB minus OUTPUT TRIM loss
<b>INSTRUMENT INPUT:</b>			
Connector:	1/4" phone jacks		same
Type:	Unbalanced JFET amplifier		same
Input z:	1M $\Omega$ nominal		same
Maximum Level:	10VRMS		same
Nominal Preamp Gain:	$-\infty$ to 65dB minus OUTPUT TRIM loss		$-\infty$ to 38dB minus OUTPUT TRIM loss
<b>OUTPUT:</b>			
Connector:	XLR-3M and TRS 1/4" phone jacks		same
Type:	Impedance Balanced (may be used unbal.)		same
Output z Balanced:	XLR: 66 $\Omega$ - TRS: 1200 $\Omega$		same
Output z Unbalanced:	XLR: 33 $\Omega$ - TRS: 600 $\Omega$		same
Nominal Level:	+4dBu		-10dBV (-7.8dBu) Unloaded
Maximum Level:	+21dBu Unloaded		+6.75dBV Unloaded
Output Trim:	0 to -12dB		0 to -12dB

# APHEX SYSTEMS

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## Improving the way the world sounds<sup>sm</sup>

Aphex and MicLim are registered trademarks of Aphex Systems, Ltd.  
Reflected Plate Amplifier circuitry is included in Aphex Model 207 and is covered by US patent #5,450,034.  
MicLim circuitry is included in Aphex Model 207 and is covered by US patent #6,266,423.  
Foreign patents issued or pending. All Aphex products are ETL listed or pending.  
Aphex reserves the right to make modifications from time to time to enhance existing products without prior notice.



For detailed specifications on these or any other Aphex products please visit our website or call, fax, write or e-mail us.

## APHEX Model 207 TUBE MICROPHONE/INSTRUMENT PREAMPLIFIER





## APHEX Model 207 Tube Mic/Instrument Preamp

### BENEFITS

- ❖ Dramatically improves microphone performance
- ❖ Dramatically improves instrument performance
- ❖ Tighter lows; clearer, up front mids; strong highs without edginess
- ❖ Super quiet, -129dBu equivalent input noise
- ❖ Greater dynamic range and frequency response
- ❖ Fuller, more realistic sound
- ❖ MicLim™ offers up to a 20dB increase in dynamic range and makes the Model 207 virtually crashproof
- ❖ Record hotter tracks with the highest possible resolution

**THE MODEL 207** is an audiophile quality tube mic preamp without the high cost usually associated with such products. It will meet or exceed the performance of preamps costing many times more. The Model 207 will reveal the subtlety and power of vintage condensers, ribbons, electrets and popular dynamic mics. Even the world's most respected microphones will sound better. The instrument inputs also, are quieter and have more gain, than conventional instrument preamps. The MicLim™ circuitry, previously only available in our flagship Model 1100 2 channel and Model 1788 8 channel mic preamps, makes the Model 207 virtually crashproof - making it a perfect front end for digital recorders.

By combining the best traits of tube and solid state circuitry, the Model 207 captures a sound that is warmer, fuller and more true to life. Whether you are recording, mixing live, broadcasting or webcasting the signal has to travel a long journey before its final delivery. So give your sound a great start with the ApheX Model 207 Tube Mic/Instrument Preamp.

### PROPRIETARY CIRCUITRY

- ❖ **MicLim™**  
Provides up to 20dB of gain reduction. For a full description see back page.
- ❖ **Reflected Plate Amplifier™**  
The patented RPA is a true vacuum tube circuit which has all the desired characteristics without the heat, fragility, sonic variability, short life and high frequency roll-off of conventional tube designs.
- ❖ **Other innovative features**  
**Delayed Turn On** - the power LED glows orange while the Tube circuit is stabilized and all DC is eliminated (ensuring no turn on thump which can seriously harm loudspeakers). When the LED turns green the Model 207 is ready for optimum performance.  
**Switch Mode Power Supply** - this internal power supply will automatically adjust to any line voltage making the 207 an excellent choice for touring (no switches, jumpers etc.).

### FEATURES

- ❖ Two independent, low noise channels of tube amplification
- ❖ Microphone & Instrument inputs on each channel
- ❖ MicLim™ on each channel
- ❖ 20 to 65dB of continuously variable gain - Mic Input
- ❖ -Infinity to 65dB of continuously variable gain - Instr. Input
- ❖ Switchable 48Volt Phantom Power with ramp up feature
- ❖ Delayed Turn On
- ❖ Polarity, 20dB Pad and Low Cut Filter switches
- ❖ LED Headroom Meter Display for each channel
- ❖ Switchable -10dBV/+4dBu operating level
- ❖ Balanced XLR and 1/4" I/O
- ❖ Internal Switch Mode Power Supply

### FOR RECORDING MICROPHONES AND INSTRUMENTS

The Model 207 will capture the subtleties of voices and instruments that are missed by the inexpensive mic preamps found in most audio consoles, DAWs and other standalone preamps. This detail, dimension and space will greatly improve the overall "sound" of your recordings. With this improvement in realism comes an enhanced presence allowing for easier placement in the final mix. For recording instruments a typical mono tube Direct box (DI) sells for about the price of the Model 207 - and we'll give you two great DIs plus two great mic preamps, more useful features and ApheX quality all in one box! MicLim allows you to utilize every last bit of digital resolution for the most dynamic recordings possible.

### FOR LIVE SOUND & TOURING PA & FIXED INSTALLATION

The 207 can bring anything miked up out of the mix by greatly improving detail and presence. Vocals and instruments will have a noticeable improvement in clarity and depth when switched to a Model 207. Switch Mode power supply offers stable performance even with unstable mains. MicLim eliminates those desperate lunges over the mixing desk to trim back overloaded preamps.

### FOR BROADCASTING & WEBCASTING

Typical broadcasting and webcasting chains reduce the clarity and detail of an audio signal. This is especially damaging to voice presence and intelligibility. Voices miked through the Model 207 will better retain their original character and impact. MicLim ensures a strong undistorted sound that will still sound good out of a computer speaker, car radio or high fidelity system.

### AS A DIRECT BOX

For bass, acoustic guitar and keyboards the Model 207's low-noise, wide frequency response and tube warmth allow each instrument's unique character to be captured. The MicLim circuit works on the instrument input also, protecting against overload distortion.

Reflected Plate Amplifier - US Patent # 5,450,034

MicLim - US Patent #6,266,423

Model 207

SOLUTION DELIVERY SERIES