

# HOTRONIC AT61/AT61-F AT61-AU/AT61-AUD

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**Digital Output**  
 (SMPTE 244M)  
**20 Bit Audio Companion**  
**Stereo Delays**  
**AES/EBU Format**  
**One Rack Package**



## AT61 Features:

- Composite Input
  - Pass VIR/VIT
  - 10 bit Digital adaptive comb filter
  - Frame synchronization with full frame memory
  - 4 times sub-carrier sampling, 10 bit resolution
  - Digital output (SMPTE 244M)
  - 20 bit audio resolution
  - 48 KHz sampling (synchronized to video)
  - Digital audio outputs AES/EBU
  - 20 dB head room
  - Audio off-set
  - Audio delay in increment of one field
  - Constant SC/ H phase
- Gen-Lock capability
  - Full proc-amp control with no interruption presets
  - Adjustable horizontal and vertical blanking
  - Freeze field/Freeze Frame
  - Remote proc-amp controls
  - No visible quantization noise

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# HOTRONIC AT61



## Specifications

- Video Resolution  
10 bit
- Video Sampling Rate  
28.6 MHz
- Correction Range  
More than 1 frame memory
- Signal to Noise Ratio  
60 dB (p-p signal to rms noise)  
Differential gain less than 1%  
Differential phase less than 1°  
K factor (2T pulse) less than 1%
- Frequency Response  
6MHz
- Audio Resolution  
20 bit
- Audio Sampling  
48 KHz synchronized to video
- Max. Audio Delay off-set  
6.5 frames
- Audio Head Room  
20 dB
- Gen-lock Range  
±2µs
- Video Input  
NTSC 75Ω BNC
- Video Output  
NTSC 75Ω BNC
- Digital Video Output  
SMPTE 244M (D2)
- Gen-lock Input  
NTSC 75Ω BNC
- Audio Input (Analog)  
+8, +4 or 0 dbu XLR

- Audio Output  
+8, +4 or 0 dbu XLR
- Audio Output (Digital)  
AES / EBU Format

## Physical

- Size  
19" wide x 1-3/4" high x 17" deep  
Rack mountable
- Power  
Less than 30W
- Weight  
12-15 lbs.

- Ambient Temperature  
10° - 40° operating

## Models

- AT61 Analog input and output / No freeze field or frame
- AT61-F AT61 plus freeze field or frame
- AT61-AU AT61-F plus Analog audio inputs and outputs
- AT61-AUD AT61-AU plus analog audio/video inputs and digital audio/video outputs.

## Significant Advantage

The significant advantage of the AT61 series is its analog to digital format transcode. The 10 bit processing eliminates visual quantizing noise. The matching audio delay can handle the lip sync perfectly. The AT61 is a product that meets with the needs of the new digital world.

\*AT61 users include: US Air Force, KPIX, KOFY, WCIX, KCRA, WNOL, KICU, KNTV, WMSU, KTXL, 4WWL, ...and etc.

AT61's are used by several TV stations in Korea.

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