



Car Audio Control Systems  
Class D Amplifiers  
Interfaces And Speakers



**TOTAL RECALL**

**Four Input / Six Output Digital Control**

# TOTAL RECALL - Digital 5-channel Full Range Audio Control Center

Four-Inputs / 6 Outputs (dual Sub)



**TOTAL RECALL** is a 4-channel audio processor ideally suited to vehicles with a dedicated factory-installed speaker system, or where passive filtering is preferred to the use of active crossovers. The four input channels are configured in the typical layout of Front left / right and Rear left / right. The processed signals are presented on four full-range phono outputs. **TOTAL RECALL** also derives a mono signal from the stereo inputs and this is offered as a dedicated Subwoofer channel within the **ALTO Mobile™ PC Editor** software, (supplied) all channels with independent signal processing. To avoid the need for splitters, twin mono outputs are provided for the bass.

**UI-4** - Interface for factory-fitted audio systems or custom audio systems. The UI-4 accepts Standard low level unbalanced, balanced, high power BTL (Bridged Tied Load) or common ground signal inputs and provides a high quality variable gain output signal. Features Auto (music sensing) or standard 12V-switch on/off, and Dual Device Switching with adjustable independent on/off delay times.



## Features

- High level inputs - 4-ch input via factory speaker wire +/- out
- Stereo RCA inputs - accept Balanced/Unbalanced signals
- Outputs - 4 output channel + 2 mono sub
- Frequency Response - 10 Hz - 25kHz ( ± 0.1dB)
- Total Harmonic Distortion - < 0.005%
- Signal-to-noise ratio - > 120dB
- High Level Inputs - input range 630 mV to > 35 V
- Balanced inputs - range 400 mV to 26V
- Unbalanced inputs - range 125 mV to 6.3V
- Gain - 0 - + 15dB
- Protection - short circuit, reverse voltage, over/under voltage
- Compact size - W: 9" / 228 mm D 4" / 100 H 2" / 51 mm

- Channel Gain Controls
- Time Alignment
- Parametric Equalizer
- Graphic Equalizer
- Dynamic Equalization
- Dynamic Level Control
- High-Pass & Low Pass Filters
- Preset Memory & Data Print Function
- Alto™ PC Editor Software
- Optional TOTAL RECALL- RM2 Interface

- **Channel Gain Controls** - All channel gains are adjusted digitally via Alto™ PC Editor software in 0.5dB steps.
- **Time Alignment** - Time delay from as little as 21 microseconds (0.021ms) may be set on each output channel. Measurements may be entered as distance (mm) or time (ms).
- **Parametric Equalizer** - 3-band parametric EQ on each output channel. Frequency, Gain, Bandwidth (Q) and EQ type can be set independently for each band. Several types of EQ may be applied: Peaking, Shelved Response and Notch Filter.
- **Graphic Equalizer** - A 10-band digital EQ is provided on each of the Front and Rear channels. This operates independently and in addition to the Parametric EQ.
- **Dynamic Equalization** - **TOTAL RECALL's** Dynamic Equalization allows the incoming full-range signal to be split into three separate and user-definable bands, processed and then reassembled as a full-range signal.
- **Dynamic Level Control** - The DLC function allows each output to be kept within a set peak level range. This helps protect and extend the performance of installed speakers, as well as helping to provide more consistent listening level.
- **High-Pass & Low Pass Filters** - Front and Rear channels have a selectable High-Pass filter to improve power handling and audio reproduction from system speakers. Slopes of 6dB to 24dB per octave and a choice of 3 different filter types. The Subwoofer channel has a Low-pass filter offering the same slope and filter variables, with the addition of phase alignment in 5 degree steps.
- **Preset Memory & Data Print Function** - Up to 64 system set-ups can be stored within the unit and any number on a PC.
- **Alto™ PC Editor Software** - Supplied at No Charge and available for auditioning on our website, [www.altomobile.com](http://www.altomobile.com).

## Compact Size:

W (including mounting brackets): 10" / 256 mm (excluding): 9.15" / 232 mm  
D (incl power & 25-pin connector, phonos ): 7.5" / 190 (excl.): 6.9" / 175 mm  
Height: 1.6" / 41 mm

- **Optional TOTAL RECALL- RM2 Interface** - Optional hardware programmer that bolts to the front of the unit or may be removed and used hand held during programming.



Visit [www.altomobile.com](http://www.altomobile.com) for more complete information.

# UCS PRO - The Ultimate Stereo Input - Six Output Control Center

Stereo Input / 6 Outputs (dual Sub)



**UCS PRO** (Ultimate Control System) is an incredibly powerful 3-way 2 input / 6 Output audio system control center. The **UCS PRO's** 40-bit internal processing provides input / output gain control, a digital crossover with multiband EQ, time alignment and dynamic level control. **UCS PRO** also offers 24-bit A-D and D-A conversion with 48kHz sampling. All functions may be adjusted using **ALTO Mobile™ PC Editor** software, (supplied) and available as a free download.

The **UCS PRO** accepts an unbalanced input of up to 2V, which is typical of factory systems. Where you have a requirement to feed high level, speaker level or balanced type signal from the output of your head unit, use the optional **UI-2**.

**UI-2** - Interface for factory-fitted audio systems or custom audio systems. The UI-2 accepts Standard low level unbalanced, balanced, high power BTL (Bridged Tied Load) or common ground signal inputs and provides a high quality variable gain output signal. Features Auto (music sensing) or standard 12V-switch on/off, and Dual Device Switching with adjustable independent on/off delay times.



## Features

- High level inputs - 2-ch input via factory speaker wire +/- out
- Stereo RCA inputs - accept Balanced/Unbalanced signals
- Outputs - 2 output channel + 2 mono sub
- Frequency Response - 10 Hz - 25kHz ( ± 0.1dB)
- Total Harmonic Distortion - < 0.005%
- Signal-to-noise ratio - > 120dB
- High Level Inputs - input range 630 mV to > 35 V
- Balanced inputs - range 400 mV to 26V
- Unbalanced inputs - range 125 mV to 6.3V
- Gain - 0 - + 15dB
- Protection - short circuit, reverse voltage, over/under voltage
- Compact size - W: 9" / 228 mm D 4" / 100 H 1.3" / 33 mm

- **Input / Output Gain Controls**
- **Time Alignment**
- **Equalization**
- **Crossover Filters**
- **Dynamic Level Control**
- **Noise Gate**
- **Polarity and Phase Adjustment**
- **Preset Memory & Data Print Function**
- **Alto™ PC Editor Software**
- **Optional UCS PRO- RM2 Interface**

- **Input / Output Gain Controls** - All channel gains are adjusted digitally via Alto™ PC Editor software in 0.5dB steps.
- **Time Alignment** - Time delay from as little as 21 microseconds (0.021ms) may be set on each output channel. Measurements may be entered as distance (mm) or time (ms).
- **Equalization** - 5-band full parametric EQ on each channel. Frequency, Gain, Bandwidth (Q) and EQ type can be set independently for each band. Several types of EQ may be applied: Peaking, Shelved Response and Notch Filter.
- **Crossover Filters** - Filter slopes between 6dB and 48dB per octave, with a choice of 3 different filter types: Butterworth, Bessel and Linkwitz-Riley. For each filter, the crossover can be set between 16Hz and 16kHz, channels are not limited to any particular frequency band.
- **Dynamic Level Control** - The DLC function allows each output to be kept within a set peak level range. This helps protect and extend the performance of installed speakers, as well as helping to provide a more consistent listening level.
- **Noise Gate** - Allows signal to pass, or not pass, through. This minimizes noise when it is most audible, such as during pauses between CD tracks.
- **Polarity and Phase Adjustment** - Select Normal (in phase) or Reverse (180 degrees phase shift). Combines with Fine control via the Crossover section to provide bass phase adjustment thru 360 degrees in 5 degree steps.
- **Preset Memory & Data Print Function** - Up to 64 system set-ups can be stored within the unit and any number on a PC.
- **Alto™ PC Editor Software** - Supplied at No Charge and available for auditioning on our website

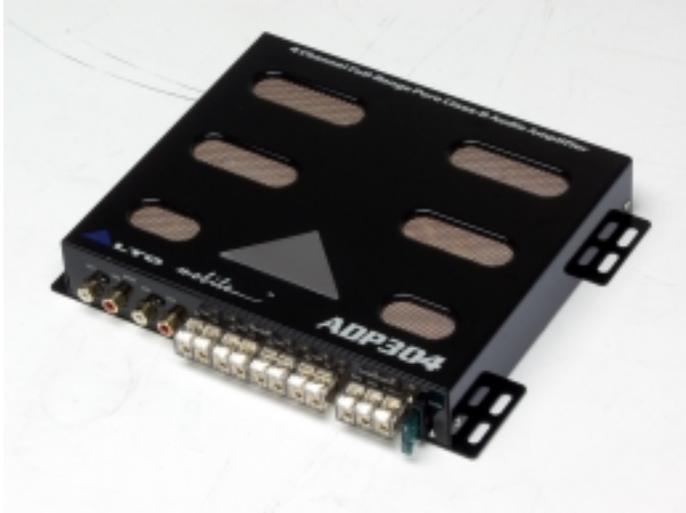
## Compact Size:

W (including mounting brackets): 10" / 256 mm (excluding): 9.15" / 232 mm  
D (incl power & 25-pin connector, phonos ): 7.5" / 190 (excl.): 6.9" / 175 mm  
Height: 1.6" / 41 mm

- **Optional UCS PRO - RM2 Interface** - Optional hardware programmer that bolts to the front of the unit or may be removed and used hand held during programming.



**Full Range Stereo & 4-Channel CLASS-D Amps**



**Alto Mobile™** has, through years of innovation in the professional audio business, arrived at the “holy grail” of Class-D amplifier designs, full-range signal response, exceptional sound reproduction, very low distortion and extremely high efficiency.

The benefits of ADP Series CLASS-D Amplifiers compared to Class-AB designs are, low power consumption, low heat, minimal switching distortion and low feedback. The ADP Series has no need for conventional finned heat sinks - they are not required, the amplifiers output efficiency exceeds 90%! Compare this to typical 50% efficiency of Class-AB. As a result, the weight and dimensions make these the most compact and lightweight amplifiers for their power output ever produced!

Although commonly described as “digital” amplifiers, CLASS-D amplifiers are more accurately described as (PWM) Pulse Width Modulated amplifiers. More details available on our website.

**Shared Specs: ADP102 / 152 / 204 / 304 / 150M / 250M**

- **XOVER** - HP/LP (Variable 50Hz - 500Hz), 12dB per octave
- **Input Range** - 4--mV - 18V
- **Efficiency** - in excess of 85% (Output Stage & Power Supply)
- **Operating Voltage** - 11V - 16V

**Compact Size:**

W (including mounting brackets): 9" / 229 mm

D (incl power & 25-pin connector, phonos ): 7.5" / 189mm

Height: 1.5" / 37 mm

**Stereo Models: Full Range CLASS-D Power Amplifiers**

- **ADP102** - (RMS @ 4 Ohms) 50W x 2 THD <0.05% @10Vrms
- **ADP152** - (RMS @ 4 Ohms) 75W x 2 THD <0.05% @10Vrms

**4-Channel Models: Full Range CLASS-D Power Amplifiers**

- **ADP204** - (RMS @ 4 Ohms) 50W x 4 THD <0.05% @10Vrms
- **ADP304** - (RMS @ 4 Ohms) 75W x 4 THD <0.05% @10Vrms

**Mono Models: Full Range CLASS-D Power Amplifiers**

- **ADP150M** - (RMS @ 4 Ohms) 150W x 1 THD <0.07%@ 10Vrms
- **ADP250M** - (RMS @ 4 Ohms) 250W x 1 THD <0.07%@ 10Vrms

**FALSTAFF - Audiophile Subwoofers**



**Alto Mobile™** has continued their technological innovation in the **Falstaff** Line of Subwoofers. They feature a very slim profile thanks to their flat membrane and unique mechanical configuration that houses both the magnet assembly and damper inside the voice coil. This compact package provides the opportunity to install **Falstaff** Subwoofers in previously unused spaces, such as behind the driver’s seat in pickup trucks!

In a market where “new models” are nearly always reworkings of an old theme, **Falstaff** stands out as truly revolutionary.

- **FALSTAFF 12" / 321mm** - **Mounting Depth** - 3" / 77mm
- **Power Handling** - 300W RMS - **Impedance** - 4 Ohm
- **Sensitivity** - 1W @ 1m: 89.3dB - **Magnet** - Neodymium
- **FALSTAFF 10" / 270mm** - **Mounting Depth** - 2.95" / 75mm
- **Power Handling** - 300W RMS - **Impedance** - 4 Ohm
- **Sensitivity** - 1W @ 1m: 88dB - **Magnet** - Neodymium
- **FALSTAFF 8" / 210mm** - **Mounting Depth** - 2.7" / 68mm
- **Power Handling** - 300W RMS - **Impedance** - 4 Ohm
- **Sensitivity** - 1W @ 1m: 85.8dB - **Magnet** - Neodymium

**RSA31 Spectrum Analyzer & AM 1000 Microphone**

The RSA31 is a 31-band, One-Third octave Real Time Analyzer (RTA) covering the spectrum from 20Hz to 20kHz. A Professional yet affordable tool to assist in system set-up.



- 31-Band, One-Third Octave
- 7-segment LED display with 3dB / 6dB (display step) switch
- Pink Noise Generator with signal line output
- Line and Microphone inputs. (Phantom Power for mic.)
- 19" 1U (1.75") High rack-mount Case
- AC Mains or 12V DC power options

[www.altomobile.com](http://www.altomobile.com)

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