

## I. Description

AD-300 is Dolby Digital / Dolby Pro Logic II / Dts decoder pre-amplifier with dot matrix LCD panel.

## II. Features

1. One optical fiber S/PDIF input.
2. One Coaxial S/PDIF input.
3. Three pair stereo analog audio input.
4. Dolby Digital / Dts / Pro Logic II decoding.
5. Dolby PL II music and Dolby PL II Movie surround mode supported.
6. 3 band EQ for front channel output.
7. Individual channel level trim.
8. Dot matrix LCD panel.
9. Center channel delay time supported.
10. Rear channel delay time supported.
11. 4 modes operate function memory loading and saving.

### III. Front Panel Description

1. Power On/Standby Switch: Power on/standby bottom switch.
2. Power On/Standby Indicator: Power on/standby red color LED to display power status, power on indicator off, power standby indicator on.
3. Dot Matrix LCD: All functions message display on LCD panel.

### IV. Back Panel Description

1. DC Power Jack: +12V / 650mA power supply adaptor.
2. Optical Jack: Optical fiber S/PDIF digital audio input.
3. Coaxial RCA Jack: Black color RCA jack for S/PDIF digital audio input.
4. Line-In RCA Jack: Stereo analog audio input.
5. AUX-1 RCA Jack: Stereo analog audio input.
6. AUX-2 RCA Jack: Stereo analog audio input.
7. FL/FR RCA Jack: Front left/right analog audio output.
8. SL/SR RCA Jack: Surround left/right analog audio output.
9. Center/Subwoofer Jack: Center and Subwoofer analog audio output.
10. 9 Pin DIN Jack: FL, FR, SL, SR, Center and Subwoofer analog audio output.

### V. Remote Handset Description

1. Power On/Standby: Power on/standby controls function.
2. Mute: Audio output muting on/off function; when mute enable, LCD font blinking until mute function disable.
3. Test: Pink noise tested automatically, test channel from left, center, right, surround left, surround right to subwoofer. When pink noise generated on each channel meanwhile user can press VOL+/VOL- to adjust output volume.
4. VOL+/VOL-: Master volume controls and function value adjusted.
5. Input: Input source select, selected from OPTICAL, COAXIAL, LINE-IN, AUX1 to AUX2.
6. Balance: Individual channel level trim controls, press this key to select which channel for volume adjustment meanwhile press VOL+/VOL- key to adjust volume increase or decrease.
7. Delay: Center and rear delay setup, press this key to select which channel for delay time adjustment meanwhile press DTIME+/DTIME- to adjust delay time increase or decrease.

8. Sur Mode: Surround mode select, user can select different surround mode such as Dolby Pro Logic II Music, Dolby Pro Logic II Movie and Multi channel surround mode depend on input source data format.
9. EQ On/Off: EQ function on/off.
10. EQ Setup: EQ function setup, press this to select which frequency for cut/boost adjustment meanwhile press VOL+/VOL- to adjust frequency cut or boost.
11. Preset-1/Preset-2/Preset-3/Preset-4: Memory address for save and load user listen environment parameter; when press this key for address 1 lock meanwhile press save key or load key for saving or loading listen environment parameter.
12. Save: Saving user listen environment depend on preset address selected.
13. Load: loading user listen environment depend on preset address selected.
14. Bass Manager: Choice bass redirection mode.  
Config-1: FL, FR, CT, SL, SR are satellite speakers, subwoofer channel speaker on, satellite speakers low frequency effect will redirection to subwoofer channel.  
Config-2: FL, FR are full range speakers, CT, SL, SR are satellite speakers, no subwoofer channel; satellite speakers and subwoofer speaker low frequency effect will redirection to FL and FR channels.  
Config-3: FL, FR, SL, SR are full range speakers, CT is satellite speaker, subwoofer speaker on; CT speaker low frequency effect will redirection to FL, FR and Subwoofer.  
Bass Manager Off: Set FL, FR, CT, SL, SR are full range speaker output, subwoofer speaker on, system doesn't any bass redirection.  
**Note: AD-300 doesn't support config-2 and config-3 function.**
15. CEN: Center speaker on/off, when user set center speaker off, original center signal will redirection to other channel.
16. SL/SR: Surround left/right speaker on/off, when user set surround speaker off, original surround signal will redirection to other channel.

17. SW: Subwoofer speaker on/off, when user set subwoofer speaker off, system will force to config-2 mode and redirection subwoofer channel low frequency effect to FL and FR.

**Note: AD-300 doesn't support subwoofer off function.**

18. DRC: Dolby Digital signal input only, set dynamic range for signal cut/boost percentage.

19. Reset: Reset to manufacture original parameter setup.

20. DTIME+/DTIME-: Center delay time and rear delay time adjustment key.

## VI. Specification

### 1. Input Impedance

Coaxial .....	75 Ω
Line-In .....	10K Ω
AUX-1 .....	10K Ω
AUX-2 .....	10K Ω

### 2. T. H. D. @ 20K Filter

Digital Input .....	< 0.04 %
Analog Input .....	< 0.05 %

### 3. S/N Ratio @ 0dBFS / 2V Input, CCIR-2K

Digital Input.....	> 85dB
Analog Input.....	> 80dB

### 4. Input Sensitivity

Digital -20dBFS .....	350mV
Analog 200mV .....	300mV

5. Crossover Frequency ..... 140Hz

### 6. Frequency Response (+/- 3dB)

Satellite Channel.....	140Hz - 20KHz
Subwoofer Channel.....	20Hz - 140Hz

### 7. EQ Control @ Left and Right

150Hz.....	+ 12.25dB / -12.25dB
1K6Hz.....	+13.75dB / -13.75dB
10KHz.....	+12.5dB / -12.5dB