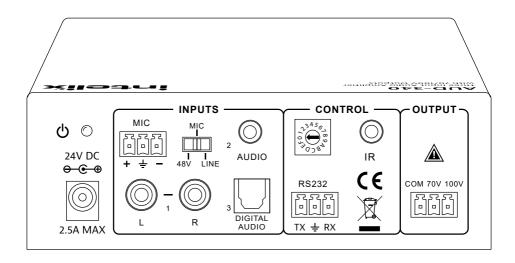
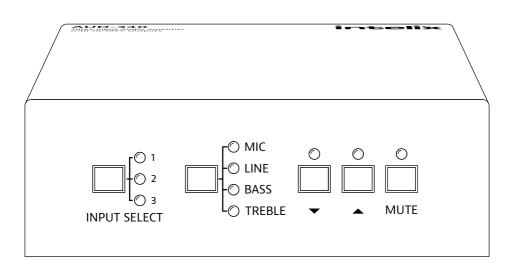


AUD-340 Installation Guide





Safety Precautions

To insure the best from the product, please read all instructions carefully before using the device. Save this manual for further reference.

- Unpack the equipment carefully and save the original box and packing material for possible future shipment
- Follow basic safety precautions to reduce the risk of fire, electrical shock and injury to persons.
- Do not dismantle the housing or modify the module. It may result in electrical shock or burn.
- · Using supplies or parts not meeting the products' specifications may cause damage, deterioration or malfunction.
- · Refer all servicing to qualified service personnel.
- To prevent fire or shock hazard, do not expose the unit to rain, moisture or install this product near water.
- · Do not put any heavy items on the extension cable in case of extrusion.
- Do not remove the housing of the device as opening or removing housing may expose you to dangerous voltage or other hazards.
- Install the device in a place with fine ventilation to avoid damage caused by overheat.
- Keep the module away from liquids.
- Spillage into the housing may result in fire, electrical shock, or equipment damage. If an object or liquid falls or spills on to the housing, unplug the module immediately.
- Do not twist or pull by force ends of the optical cable. It can cause malfunction.
- Do not use liquid or aerosol cleaners to clean this unit. Always unplug the power to the device before cleaning.
- · Unplug the power cord when left unused for a long period of time.
- Information on disposal for scrapped devices: do not burn or mix with general household waste, please treat them as normal electrical waste.

FCC Statement

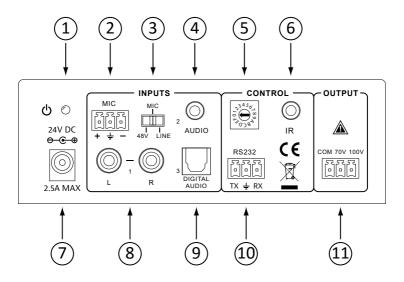
This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. It has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a commercial installation.

Operation of this equipment in a residential area is likely to cause interference, in which case the user at their own expense will be required to take whatever measures may be necessary to correct the interference,

Any changes or modifications not expressly approved by the manufacture would void the user's authority to operate the equipment.

The Intelix AUD-340 is a 40 watt Class D amplifier with 70V or 100V outputs. The amplifier features two analog audio inputs, one digital audio input, and a balanced microphone input with ducking functions. Additional features of the AUD-340 include input and microphone volume control, bass and treble adjustments, microphone mixing with source audio, and three modes of microphone input support (48 dB gain, 48 dB gain with 48V phantom power, and line level). The AUD-340 has three methods of control: push button, RS232, and IR with the optional AUD-340-IR accessory kit.

Input and Output Connections

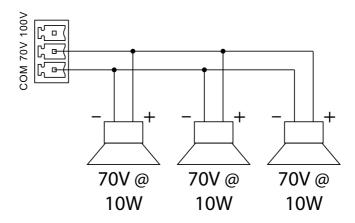


- 1. Power LED
- 2. Microphone Input
- 3. Microphone Level Selector
- 4. Analog Input 2
- 5. RS232 ID Selector
- 6. IR Input (requires optional AUD-340-IR)
- G. 24V DC Power Input
- 8. Analog Input 1
- 9. Digital Input 3
- 10. RS232 Input
- 11. 70V/100V Speaker Output

Speaker Wiring Configurations

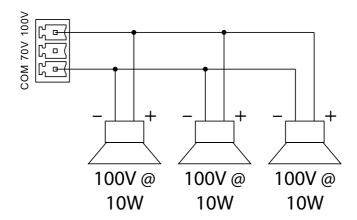
70V Wiring

30W Load with 70V Speakers



100V Wiring

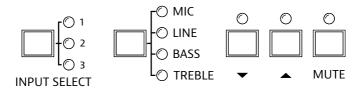
30W Load with 100V Speakers



Installation Instructions

- 1. Verify all components included with the amplifier are present before installation.
- 2. Turn off power and disconnect the audio/video equipment by following the manufacturer's instructions.
- 3. Connect a quality audio cable between the audio output of the source device and the appropriate audio input of the AUD-340.
- 4. Connect a microphone to the microphone input connector.
 - a. "+" connects to positive
 - b. "-' connects to negative
 - c. "±" connects to ground.
- 5. Adjust the microphone input model selector based on the type of microphone to be connected to the AUD-340.
 - a. 48V 48dB gain with 48V phantom power
 - b. MIC 48dB gain
 - c. LINE 4dB gain
- 6. Connect the speakers to be used in accordance with the Speaker Wiring Configurations found on page 5.
- 7. If the device is to be controlled via IR, plug the IR receiver from the AUD-340-IR kit into the IR IN port of the AUD-340.
- 8. If the device is to be controlled via RS232, plug the 3-pole Euroblock plug end of the included RS232 cable into the RS232 port on the input side of the AUD-340.
 - a. By default, the RS232 ID selector is set to 0.
 - b. Setting the ID selector to any of the other values will prevent the AUD-340 from accepting any RS232 commands without a proper header. Please review the RS232 ID Codes section after the RS232 commands portion of this manual for more information.
- 9. Plug the power supply into the power input port of the AUD-340.
- 10. Power on attached audio devices.

Operation of the Button Controls



Audio Switching

The INPUT SELECT button will switch between input 1, RCA analog audio input, input 2, 3.5 mm TRS input, and input 3, optical digital audio input.

Volume and EQ Control

The LEVEL SELECT button will switch between MIC, LINE, BASS, and TREBLE levels.

When MIC or LINE are selected, the Down, Up, and Mute buttons will adjust the volume or mute the selected input.

When BASS or TREBLE are selected, the Down and Up buttons will adjust the bass or treble levels of the analog audio input signal.

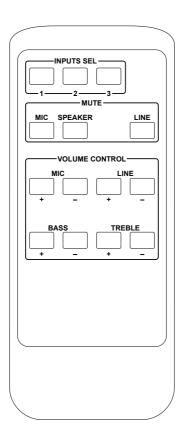
Audio Ducking

Audio ducking is enabled by default. This can be disabled via RS232.

The line level ducking amount may be increased or decreased via RS232. The default value is 10 steps below the current value.

For example, if the line audio level is at 35, it will drop to 25 while the microphone is being used. The line level audio will ramp up to the original value after five seconds of no audio signal being detected on the microphone input.

Operation of the IR Remote Controls



INPUTS SEL

Direct selection of input 1, input 2 or Input 3

MUTE

Direct muting of MIC or LINE inputs. The SPEAKER button unmutes all sources.

VOLUME CONTROL

Direct volume and level controls for MIC, LINE, BASS, and TREBLE.

RS232 Control

RS232 Settings: 9600 baud, 8 Data bits, 1 Stop bit, Parity = None

A carriage return and line feed must follow all RS232 commands. A carriage return and line feed will follow all responses.

Input Switching

Description	Command	Response
Switch to input 1	1A1.	A: 1 -> 1
Switch to input 2	2A1.	A: 2 -> 1
Switch to input 3	3A1.	A: 3 -> 1

Volume and EQ Settings

Description	Command	Response
MIC volume up (XX = volume; 00-60)	601%	Volume of MIC: XX
MIC volume down (XX = volume; 00-60)	602%	Volume of MIC: XX
Set MIC volume to XX (XX = volume; 00-60)	5XX%	Volume of MIC: XX
LINE volume up (XX = volume; 00-60)	603%	Volume of LINE: XX
LINE volume down (XX = volume; 00-60)	604%	Volume of LINE: XX
Set LINE volume to XX (XX = volume; 00-60)	7XX%	Volume of LINE: XX
Bass level up (YY = level; 00-08)	605%	Bass of LINE: YY
Bass level down (YY = level; 00-08)	606%	Bass of LINE: YY
Set Bass level to YY (YY = level; 00-08)	8448	Bass of LINE: YY
Treble level up (YY = level; 00-08)	607%	Treble of LINE: YY
Treble level down (YY = level; 00-08)	608%	Treble of LINE: YY
Set Treble level to YY (YY = level; 00-08)	9YY%	Treble of LINE: YY

Input Muting

Description	Command	Response
Mute MIC and LINE	0A0.	Mute
Mute MIC	1A0.	Mute MIC
Mute LINE	2A0.	Mute LIN
Unmute MIC and LINE	0A1.	Unmute

Input Ducking

Description	Command	Response
LINE ducking amount (XX = volume; 00-60)	5XX%	Ducking of LINE: XX
Ducking toggle	610%	Ducking off OR Ducking on

System Query

Description	Command	Response
Current input and levels	600%	A: 1 -> 1 Volume: 30 Bass: 00 Treble: 00

Factory Reset

Description	Command	Response
Reset to factory defaults	609%	Init OK

RS232 ID Codes

The ID codes of AUD-340 range from 0 to F (hexadecimal), when sending RS232 commands, please note the address of the ID code.

If the ID selector is set to 0, any RS232 command is available.

If the ID selector is set to 1~F, it has one unique ID code. If the ID code is not the same as the selector value, the AUD-340 will ignore the RS232 command.

While the ID code is $1\sim F$, please add "ID/" as a header for the RS232 command.

For example, if the ID code is 5, the RS232 command needed is "604%", the correct command is in this format: 5/604%.

There is no need to add "ID/" before the command when the ID code is 0.

Technical Specifications

I/O Connections	
Analog Inputs	Two (2) RCA Connectors; One (1) 3.5mm TRS Connector
Digital Input	One (1) EIAJ Optical Connector
Microphone Input	One (1) 3-Pole/3.5mm Euroblock
Control (Front Panel)	Push Button
Control (Rear Panel)	RS232 via One (1) 3-Pole/3.5mm Euroblock; IR via One (1) 3.5mm TRS Connector
RS232 ID Selector	One (1) 16-Position Rotary Switch
Microphone Signal Type Selector	One (1) 3-Position Slider Switch
70V or 100V Speaker Output	One (1) 3-Pole/3.5mm Euroblock
24V DC Power	One (1) Locking Barrel (5.5 mm OD, 2.1 mm ID)
Audio Performance	
Analog Input Impedance	>10k Ω
Output Type	Constant Voltage at 70V or 100V
Maximum Rated Power Output	40 Watts
Frequency Response	120 Hz to 20 kHz
Common Mode Rejection Ratio (CMRR)	>70 dB at 20 Hz to 20 kHz
Signal to Noise Ratio (SNR)	80 dB (Max)
Total Harmonic Distortion + Noise (THD+N)	1% at 1 kHz; 0.3% at 20 kHz at Nominal Level
Voltage Gain	26 dB
Chassis and Environmental	
Enclosure	Painted Aluminum
Dimensions (H x W x D)	44 mm x 130 mm x 144 mm (1.73 in x 5.12 in x 5.67 in)
Shipping Weight	1.43 kg (3.15 lbs)
Operating Temperature	0° to +40° C (+32° to +104° F)
Operating Humidity	20% to 90%, Non-condensing
Storage Temperature	-10° to +60° C (+14° to +140° F)
Storage Humidity	20% to 90%, Non-condensing
Power, ESD, and Regulatory	
Minimum Power Consumption	5 watts
Maximum Power Consumption	45 watts
Power Supply Input Voltage	100-240v AC at 50/60 Hz at 0.5 A
Power Supply Output Rating	24V DC at 2 A
ESD Protection	15kV
Device Regulatory	CE, RoHS
Power Supply Regulatory	CE, RoHS, TUV, UL, SGS
Other	
Warranty	2 years
Diagnostic Indicators	Input Select LEDs, Signal Select LEDs, Up LED, Down LED, Mute LED, Power LED
Included Accessories	Installation guide, power supply, AC adapters (AU, EU, UK, and US), RS232 cable, rubber feet, mounting "L" brackets (2 ea), mounting screws (4 ea)
Optional Accessory	AUD-340-IR IR kit

Audio quality may be affected by cable grade, cable quality, source and destination equipment, RF and electrical interference, and cable patches.



Intelix is a brand of:



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