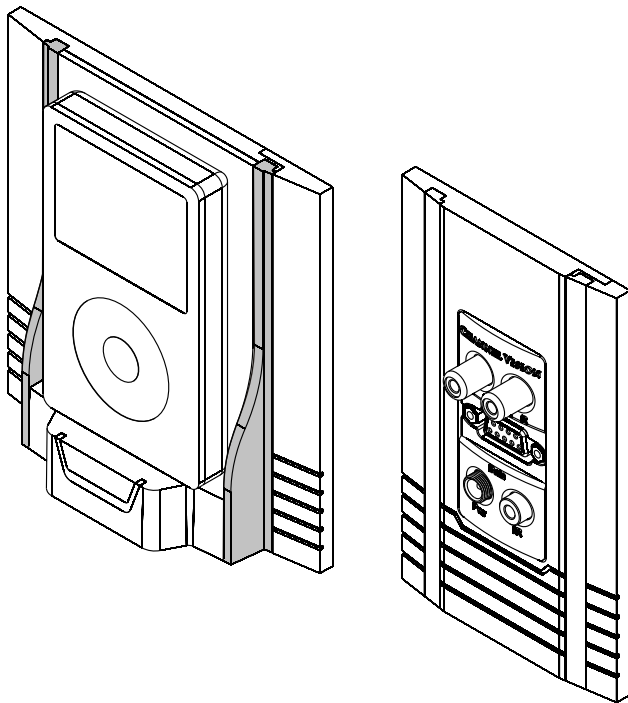


INSTRUCTIONS



A0316 **iBus Wall-Dock for Distributed Audio** **with RS-232 Control**



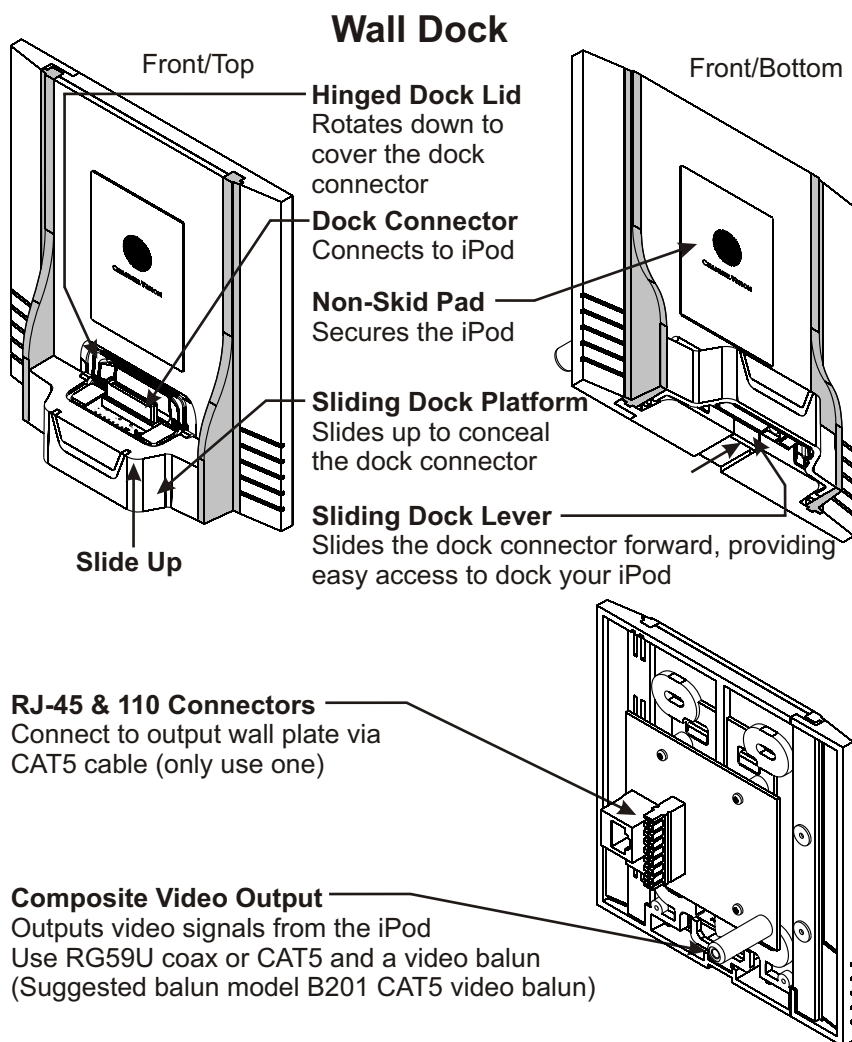
iBus™
BY CHANNEL VISION™

©2010 CHANNEL VISION TECHNOLOGY

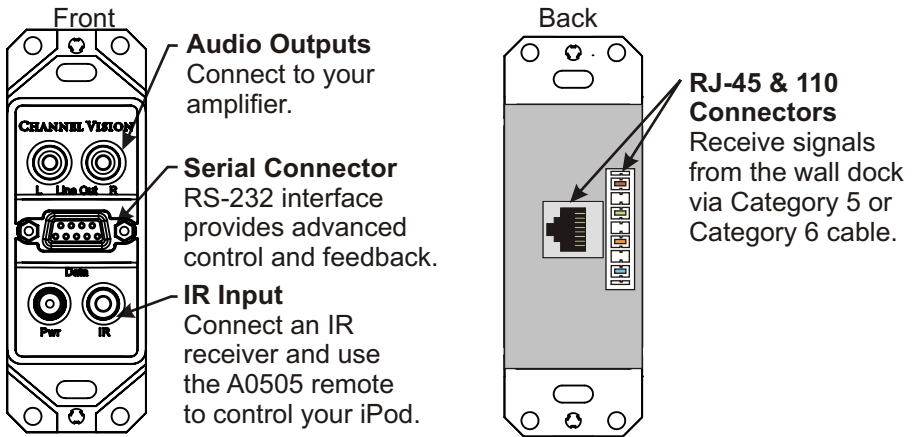
The **A0316** is an on-wall iPod® docking station that supports RS-232 and IR control. The dock connector slides in and out to adjust for any iPod and the non-skid pad helps to hold the music player in place. Its elegant and contemporary design make the A0316 perfect for anyone who wants to enjoy their music without defacing their wall.

Features:

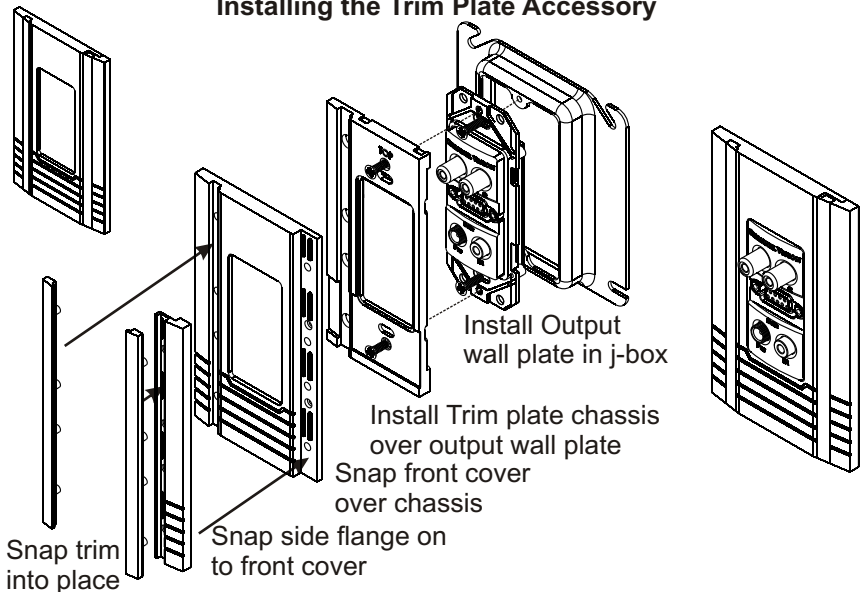
- Supports IR control: compatible with A0505 or Apple Remote
- RS-232 interface for use with advanced control systems
- Built-in IR receiver
- Charges the iPod
- Allows viewing of iPod videos on a TV
- Mounts in a standard 2-gang box



Output Wall Plate



Installing the Trim Plate Accessory



Compatibility

Made For:

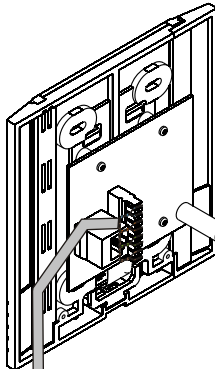
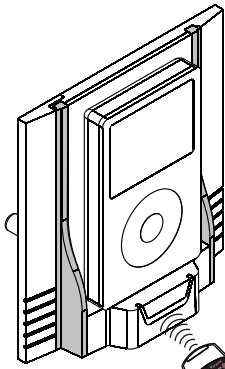
- iPod touch (2nd generation)
- iPod touch (1st generation)
- iPod classic
- iPod video
- iPod nano (5th generation)
- iPod nano (4th generation)
- iPod nano (3rd generation)
- iPod nano (2nd generation)
- iPod nano (1st generation)
- iPod mini
- iPod with dock connector

Basic Application

A0316 Wall Dock

Front

Rear



TV or Video Display

Video Output



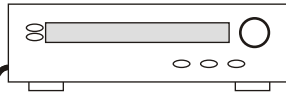
A0505

Remote Control

The built-in IR receiver allows the A0316 to be controlled directly by the A0505.

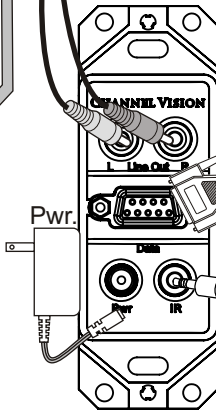
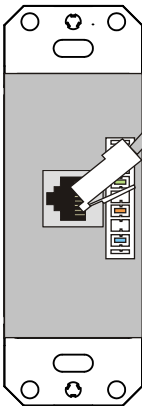
CAT5 cable up to 350ft.

Whole-House Audio System



Rear

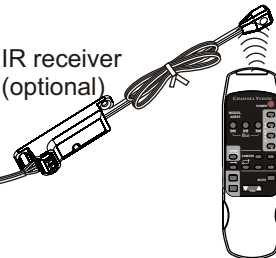
Front



Serial Control Automation:
Control4 driver available from
Extravegetables.com



IR receiver
(optional)

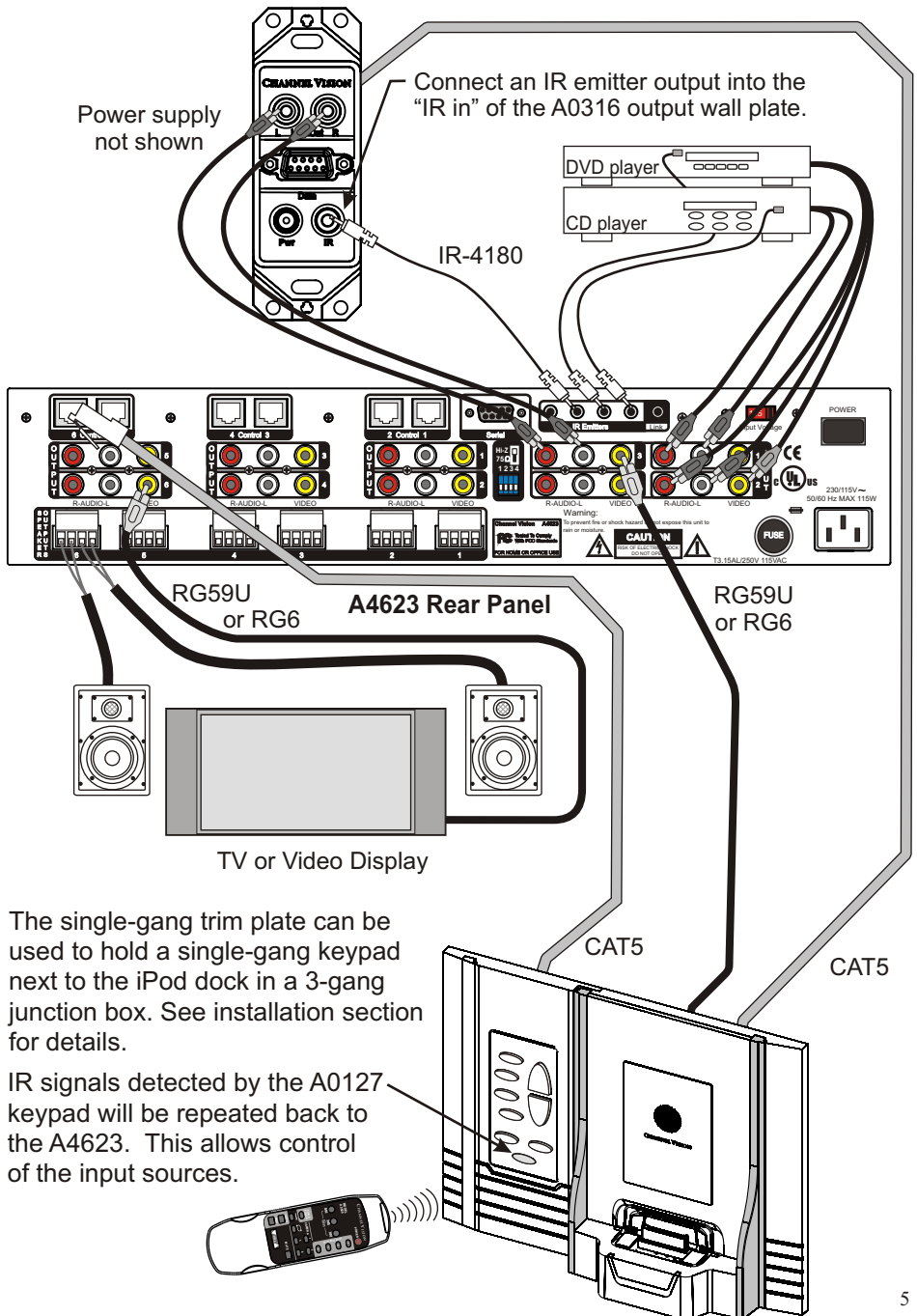


A0505
Remote

A0316 Output Wall Plate

Note: An IR emitter output from a whole-house IR system can also be connected here. As shown on the following page.

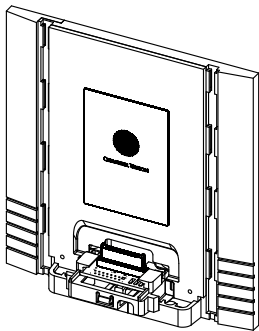
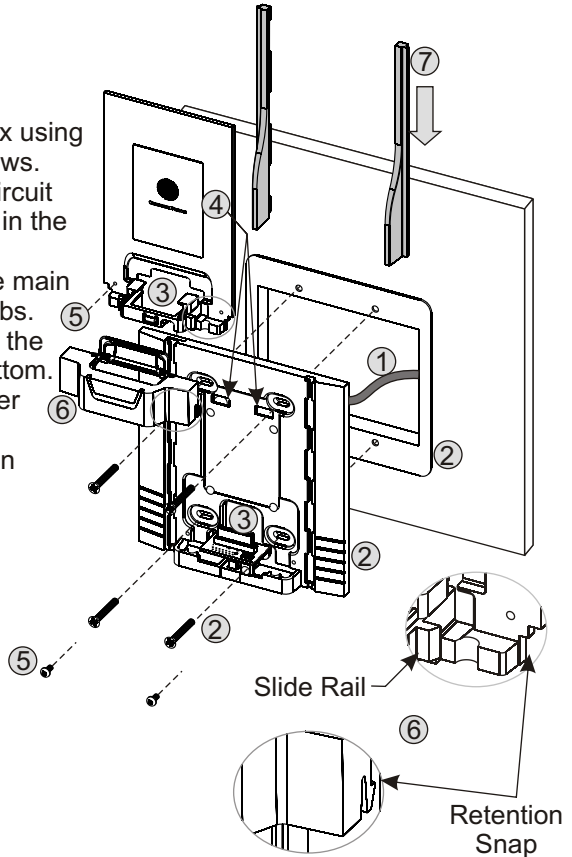
Sample Wiring Diagram: When used with the A4623



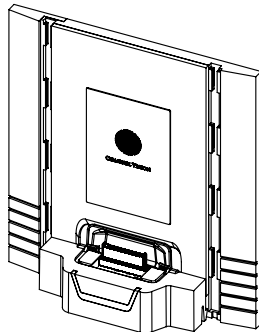
Installing the Wall Dock

Installation Steps

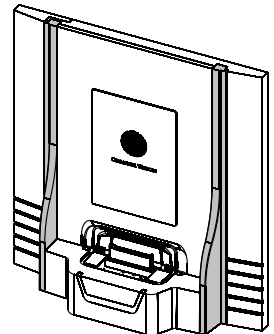
1. Connect all wiring.
2. Attach main chassis to j-box using the provided four 6-32 screws.
3. Feed the dock connector circuit board through the opening in the front cover.
4. Hang the front cover on the main chassis from the two top tabs.
5. Secure the front cover with the two small screws at the bottom.
6. Place the dock platform over the slide rail and push downward until the retention snaps are engaged.
7. Slide the side protectors into the slots on the main chassis.



Steps 3 & 4 complete



Steps 5 & 6 complete



Completed Installation

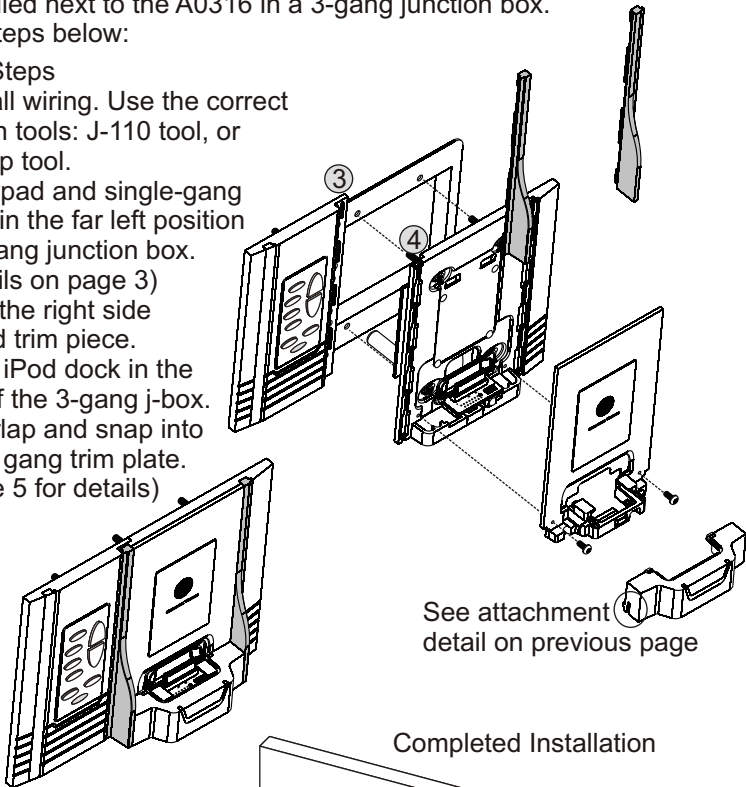
Installing the Wall Dock

In some installations it may be desirable to mount a single gang control keypad next to the A0316. To accomplish this, the single gang trim plate can be installed next to the A0316 in a 3-gang junction box.

Follow the steps below:

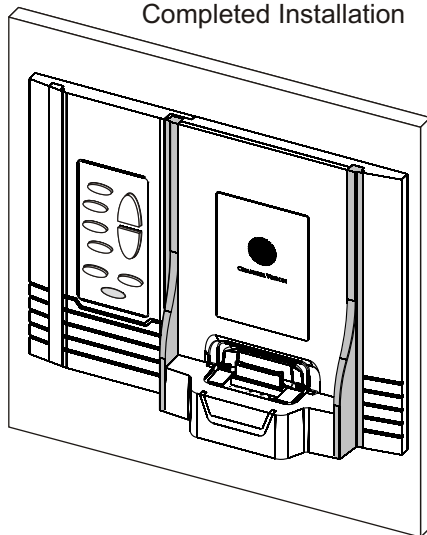
Installation Steps

1. Connect all wiring. Use the correct installation tools: J-110 tool, or 1014 crimp tool.
2. Install keypad and single-gang trim plate in the far left position of the 3-gang junction box. (See details on page 3)
3. Leave off the right side flange and trim piece.
4. Install the iPod dock in the left side of the 3-gang j-box. It will overlap and snap into the single gang trim plate. (See page 5 for details)

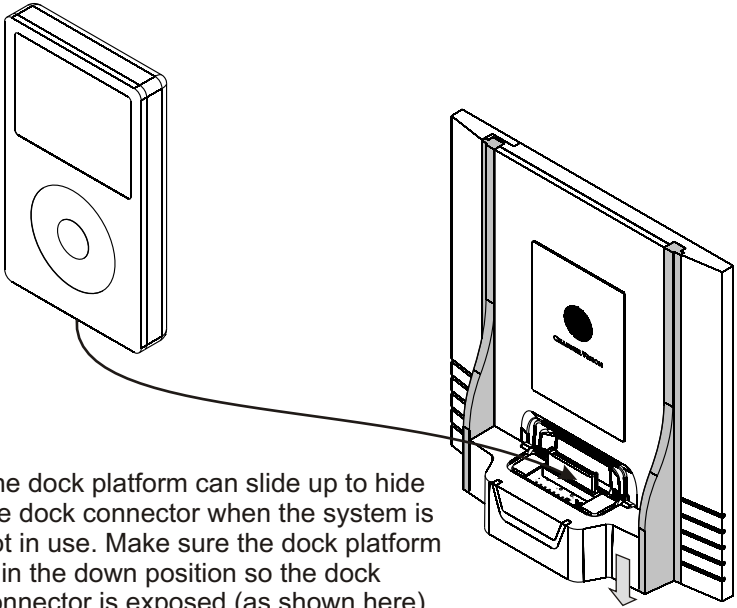


See attachment detail on previous page

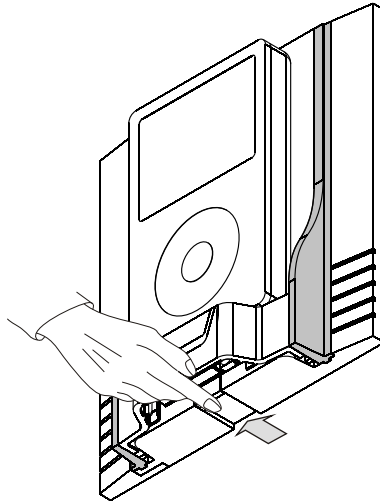
Completed Installation



Docking the iPod



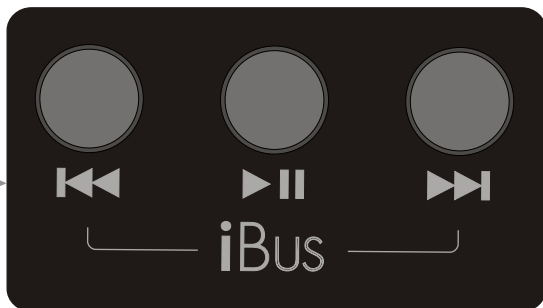
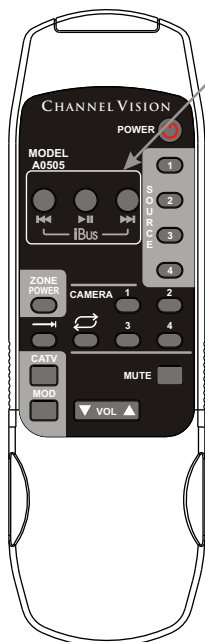
The dock platform can slide up to hide the dock connector when the system is not in use. Make sure the dock platform is in the down position so the dock connector is exposed (as shown here).



The sliding dock lever beneath the dock adjusts the position of the dock connector to create a perfect fit for all compatible iPods (see page 3 for a list of compatible iPods).

Using the A0505 Remote Control

The buttons above the iBus label on the A0505 remote control will mimic the functions on the iPod wheel.



The volume, mute, power, and source buttons on the A0505 are designed to control Channel Vision's whole-house audio systems such as the A4603 and P-1044.

Please note that this remote will only function when your iPod is docked in the A0316 wall dock. It can be pointed directly at the wall dock or at an IR receiver that is part of an external whole-house IR system. An IR-4180 cable can be used to connect the emitter output of the whole-house IR system into the IR IN of the A0316 output wall plate. See page 5 of this manual for an example.

We realize that custom integrators may wish to design advanced control systems. To provide assistance we have published the hex codes for the IR commands (see below). (IR codes can be downloaded at: www.channelvision.com)

Hex codes for IR commands:

iBus Play/Pause:

0000 006D 0000 000B 001F 001F 001F 001F 003F 003F 001F 001F 001F 001F 001F 001F 003F 001F 001F 001F 001F 003F 003F 003F 001F 0CA2

iBus Skip <<:

0000 006D 0000 000B 001F 001F 003F 001F 001F 003F 001F 001F 001F 001F 001F 001F 003F 001F 001F 003F 003F 001F 0CA2

iBus Skip >>:

0000 006D 0000 000A 001F 001F 001F 001F 003F 003F 001F 001F 001F 001F 001F 001F 003F 003F 003F 001F 001F 003F 003F 0CC3

A0316 Serial Protocol

RS-232 Control Code:

For more complex installations, the A0316 supports RS-232 making it well suited for use with automation systems. Baud Rate: 57600, 8N1 (8-Bit Data, No Parity, 1 Stop Bit)

The **checksum** is calculated by adding the bytes together as signed 8-bit values, discarding any signed 8-bit overflow, and then negating the sum to create the signed 8-bit checksum byte.

When calculating the checksum of iPod responses, the sum of all the bytes from the packet payload length to and including the packet payload checksum is 0x00.

When calculating the checksum of commands issued to the iPod, the sum of ALL bytes, including the "A36" prefix, as well as the checksum is 0x00.

Responses in the Special Lingo are also calculated in this way.

NOTE: to issue commands without calculating a checksum, you can use the ASCII lowercase 'z' (0x7A) as a wildcard checksum value.

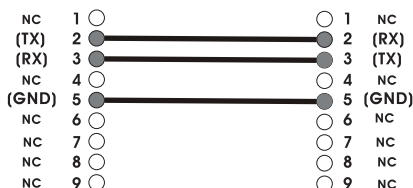
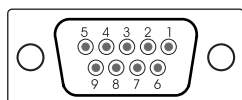
There are two possible responses generated when a command is received:

- This acknowledges that the command was received and it had a valid check sum.

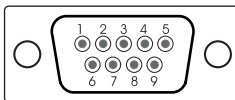
ZZZ - This means that the command was not understood or could not be decoded correctly. It could also mean that the check sum was not valid.

Serial Cable Pin Out

A0316 RS-232 Pins
DB-9P, Female

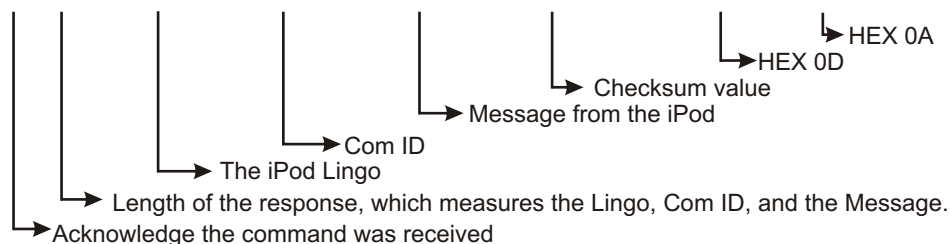


PC RS-232 Pins
DB-9P, Male



The format of responses is as follows:

{Length} {Lingo} {CommandID} {Message} {Checksum} {Carriage Return} {Line Feed}



Message Payloads are shown in italics: 1 2 3 4 5 ... followed by [cs] = Check Sum
All understood commands will elicit a **'#' (0x23) acknowledgement**, which is not shown in the tables below. Other commands will also elicit an additional response in the form of a "Return" command.

A0316 Serial Protocol

Note: The gray sections in the following tables denote responses from the iPod or iPod dock. The Special Lingo contains special messages and errors indications to provide useful status information.

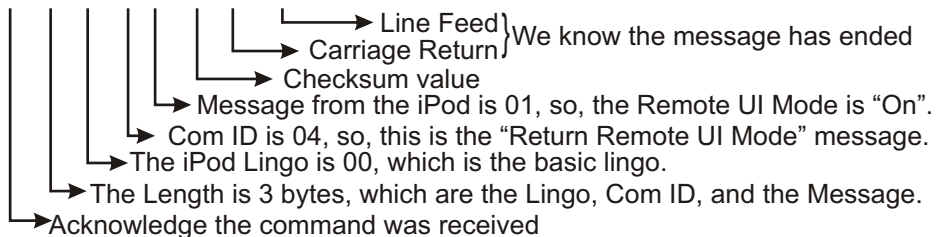
| Special Lingo (0x21) | Com ID | Notification Messages | ASCII Message | Hex Message |
|----------------------|--------|---|--------------------|-------------------|
| | 0x20 | Is iPod Connected? | A361[sp][cs] | 41 33 36 31 20 05 |
| | 0x21 | iPod Removed/Not Connected | A361![cs] | 41 33 36 31 21 04 |
| | 0x22 | iPod Inserted/Connected | A361"[cs] | 41 33 36 31 27 FE |
| | 0x23 | Incompatible iPod (No Auth) (Automatic Response) | A361#[cs] | 41 33 36 31 23 02 |
| | 0x24 | Not in Extended Mode (Automatic Response) | A361\$(cs] | 41 33 36 31 24 01 |
| | 0x25 | NACK (repeat command) (Automatic Response) | A361%(cs] | 41 33 36 31 25 00 |
| | 0x00 | ACK of command received & executed by iPod | [non-ASCII values] | 03 21 00 00 DC |

| General Lingo (0x00) | Com ID | Function/Question/Response | ASCII Com | Hex Com |
|----------------------|--------|----------------------------|--------------------|---|
| | 0x03 | Request Remote UI Mode | A361&[cs] | 41 33 36 31 26 FF |
| | 0x04 | Return Remote UI Mode | [non-ASCII values] | ON: 03 00 04 01 F8 0D 0A OFF: 03 00 04 00 F9 0D 0A |
| | 0x05 | Enter Remote UI Mode | A361'[cs] | 41 33 36 31 27 FE |
| | 0x06 | Exit Remote UI Mode | A361'([cs] | 41 33 36 31 28 FD |
| | 0x07 | Request iPod Name | A361')cs] | 41 33 36 31 29 FC |
| | 0x08 | Return iPod Name | [iPod data*] | [iPod data*] |

*All name data from the iPod (iPod name, song name, etc.) is transmitted as a null-terminated UTF-8 character array, so the presence of 0x00 marks the end of the name.

Parsing Example: Suppose we have Requested the Remote UI Mode and we want to understand the response. Assume the response (in Hex) was:

23 03 00 04 01 F8 0D 0A



The commands below are for simple transport control of the iPod.
 There is no reply from the iPod dock beyond the basic '#' acknowledgment.

A0316 Serial Protocol

| Simple Remote Lingo (0x02) Commands | Com ID | Function/Question | ASCII Command | Hex Command |
|-------------------------------------|--------|---|---------------|-------------------|
| | 0x00 | Context Button Status, Stop | A3614[cs] | 41 33 36 31 34 F1 |
| | 0x00 | Context Button Status, Play/Resume | A3615[cs] | 41 33 36 31 35 F0 |
| | 0x00 | Context Button Status, Pause | A3616[cs] | 41 33 36 31 36 EF |
| | 0x00 | Context Button Status, Next Playlist | A3617[cs] | 41 33 36 31 37 EE |
| | 0x00 | Context Button Status, Prev Playlist | A3618[cs] | 41 33 36 31 38 ED |
| | 0x00 | Context Button Status, Shuffle Advance (No shuffle, shuffle song, shuffle album) | A3619[cs] | 41 33 36 31 39 EC |
| | 0x00 | Context Button Status, Repeat Advance (No repeat, Repeat one, Repeat all) | A361:[cs] | 41 33 36 31 3A EB |
| | 0x00 | Context Button Status, Begin FFW | A361:[cs] | 41 33 36 31 3B EA |
| | 0x00 | Context Button Status, Begin RRW | A361<[cs] | 41 33 36 31 3C E9 |
| | 0x00 | Context Button Status, Play/Pause | A3611[cs] | 41 33 36 31 31 F4 |
| | 0x00 | Context Button Status, Next Track | A3612[cs] | 41 33 36 31 32 F3 |
| | 0x00 | Context Button Status, Prev Track | A3613[cs] | 41 33 36 31 33 F2 |

You must Enter the Remote UI Mode before issuing any of the “Extended Interface Lingo” commands. If an Extended Interface command is issued when the system is not in Remote UI Mode, it will respond with the “Not in Extended Mode” response (See “Special Lingo” section).

| Extended Interface Lingo (0x04) Commands | Com ID | Function/Question | ASCII Command | Hex Command |
|--|--------|---------------------------------------|-------------------------------|--|
| | 0x000C | Get Indexed Playing Track Info | A365Z 1 2 3 4 [cs] | 41 33 36 35 5A 1 2 3 4 [cs] |
| | 0x000D | Return Indexed Playing Track Info | [iPod data] | [iPod data] |
| | 0x000E | Get Artwork Formats | A361Y[cs] | 41 33 36 31 59 CC |
| | 0x000F | Ret Artwork Formats | [iPod data] | [iPod data] |
| | 0x0010 | Get Track Artwork Data | A36:\1 2 3 4 5 6 7 8 9 10[cs] | 41 33 36 3B 5C 1 2 3 4 5 6 7 8 9 10 [cs] |
| | 0x0011 | Ret Track Artwork Data | [iPod data] | [iPod data] |
| | 0x0016 | Reset DB Selection | A361A[cs] | 41 33 36 31 41 E4 |
| | 0x0017 | Select DB Record | A366B 1 2 3 4 5[cs] | 41 33 36 36 42 1 2 3 4 5 [cs] |
| | 0x0018 | Get Number Categorized DB Records | A362C 1 [cs] | 41 33 36 32 43 1 [cs] |
| | 0x0019 | Return Number Categorized DB Records | [iPod data] | [iPod data] |
| | 0x001A | Retrieve Categorized Database Records | A36:D 1 2 3 4 5 6 7 8 9[cs] | 41 33 36 3A 44 1 2 3 4 5 6 7 8 9 [cs] |
| | 0x001B | Return Categorized Database Records | [iPod data] | [iPod data] |

A0316 Serial Protocol

The Macro commands listed below simplify a multi-step process into a single command. They work as shortcuts to make programming easier.

| Extended Interface Lingo (0x04) Commands | Com ID | Function/Question | ASCII Command | Hex Command |
|--|--------|---|-------------------------------------|---|
| | 0x001C | Get Play Status | A361E[cs] | 41 33 36 31 45 E0 |
| | 0x001D | Return Play Status | [iPod data] | [iPod data] |
| | 0x001E | Get Current Playing Track Index | A365F 1 2 3 4 [cs] | 41 33 36 35 46 1 2 3 4 [cs] |
| | 0x001F | Return Current Playing Track Index | [iPod data] | [iPod data] |
| | 0x0020 | Get Indexed Playing Track Title | A365G 1 2 3 4 [cs] | 41 33 36 35 47 1 2 3 4 [cs] |
| | 0x0021 | Return Indexed Playing Track Title | [iPod data] | [iPod data] |
| | Macro | Get Current Playing Track Title | A361a[cs] | 41 33 36 31 61 C4 |
| | 0x0022 | Get Indexed Playing Track Artist Name | A365H 1 2 3 4 [cs] | 41 33 36 35 48 1 2 3 4 [cs] |
| | 0x0023 | Return Indexed Playing Track Artist Name | [iPod data] | [iPod data] |
| | Macro | Get Current Playing Track Artist Name | A361b[cs] | 41 33 36 31 62 C3 |
| | 0x0024 | Get Indexed Playing Track Album Name | A365I 1 2 3 4 [cs] | 41 33 36 35 49 1 2 3 4 [cs] |
| | 0x0025 | Return Indexed Playing Track Album Name | [iPod data] | [iPod data] |
| | Macro | Get Current Playing Track Album Name | A361c[cs] | 41 33 36 31 63 C2 |
| | 0x0026 | Set Play Status Change Notification Notification Off Full Notification - updates every 500ms | A362J 1 [cs] | 41 33 36 32 4A 1 [cs] 41 33 36 32 4A 00 DA 41 33 36 32 4A 01 D9 |
| | 0x0027 | Play Status Change Notification | [iPod data] | [iPod data] |
| | 0x0026 | Set Play Status Change Notification (Command only works on newer iPods) Notification Off Full Notification - updates every 500ms Limited Notification | A3625D 1 [cs] | 41 33 36 32 5D 1 [cs] 41 33 36 32 5D 00 C7 41 33 36 32 5D 01 C6 41 33 36 32 5D 02 C5 |
| | Macro | Play 1st Playlist (Alphabetic order) Play 2nd Playlist (Alphabetic order) Play 3rd Playlist (Alphabetic order) | A361q[cs] A361r[cs] A361s[cs] | 41 33 36 31 71 B4 41 33 36 31 72 B3 41 33 36 31 73 B2 |

| Extended Interface Lingo (0x04) Commands | Com ID | Function/Question | ASCII Command | Hex Command |
|--|--------|---------------------------|------------------------|---------------------------------|
| | 0x0035 | Get Num Playing Tracks | A361Q[cs] | 41 33 36 31 51 D4 |
| | 0x0036 | Return Num Playing Tracks | [iPod data] | [iPod data] |
| | 0x0037 | Set Current Playing Track | A365R 1 2 3 4 [cs] | 41 33 36 35 52 1 2 3 4 [cs] |
| | 0x0038 | Select Sort DB Record | A367S 1 2 3 4 5 6 [cs] | 41 33 36 37 53 1 2 3 4 5 6 [cs] |
| | | | | |

A0316 Serial Protocol

| Extended Interface Lingo (0x04) Commands | Com ID | Function/Question | ASCII Command | Hex Command |
|--|--------|---|------------------------|--|
| | 0x0028 | Play Current Selection | A365K 1 2 3 4 [cs] | 41 33 36 35 4B 1 2 3 4 [cs] |
| | 0x0029 | Play Control | A362L 1 [cs] | 41 33 36 32 4C 1 [cs] |
| | 0x002A | Get Track Artwork Times | A367[1 2 3 4 5 6 [cs] | 41 33 36 37 5B 1 2 3 4 5 6 [cs] |
| | 0x002B | Return Track Artwork Times | [iPod data] | [iPod data] |
| | 0x002C | Get Shuffle | A361M[cs] | 41 33 36 31 4D D8 |
| | 0x002D | Return Shuffle | [non-ASCII values] | None: 04 04 00 2D 00 CB 0D 0A Song: 04 04 00 2D 01 CA 0D 0A Album: 04 04 00 2D 02 C9 0D 0A |
| | 0x002E | Set Shuffle (00 = No shuffle, 01 = Song, 02 = Album) | A362N 1 [cs] | 41 33 36 32 4E 1 [cs] |
| | 0x002F | Get Repeat | A361O[cs] | 41 33 36 31 4F D6 |
| | 0x0030 | Return Repeat | [non-ASCII values] | None: 04 04 00 30 00 C8 0D 0A One: 04 04 00 30 01 C7 0D 0A All: 04 04 00 30 02 C6 0D 0A |
| | 0x0031 | Set Repeat (00 = No repeat, 01 = One, 02 = All) | A362P 1 [cs] | 41 33 36 32 50 1 [cs] |

Non-Essential Commands

| Lingo (0x00) Commands | Com ID | Function/Question | ASCII Command | Hex Command |
|-----------------------|--------|--------------------------------|---------------|-----------------------|
| | 0x0F | Request Lingo Protocol Version | A362+ 1 [cs] | 41 33 36 32 2B 1 [cs] |
| | 0x10 | Return Lingo Protocol Version | [iPod data] | [iPod data] |
| | 0x09 | Request iPod Software Version | A361,[cs] | 41 33 36 31 2C F9 |
| | 0x0A | Return iPod Software Version | [iPod data] | [iPod data] |
| | 0x0D | Request iPod Model Num | A361*[cs] | 41 33 36 31 2A FB |
| | 0x0E | Return iPod Model Num | [iPod data] | [iPod data] |
| 0x02 | 0x00 | Context Button Status, All Up | A3610[cs] | 41 33 36 31 30 F5 |

A0316 Serial Protocol

Example:

The following example describes how to query the iPod database.

There are several database categories that can be queried.

Category (HEX Number)

| | |
|----------|------|
| Playlist | (01) |
| Artists | (02) |
| Albums | (03) |
| Genres | (04) |
| Tracks | (05) |

All numbers are HEX values.

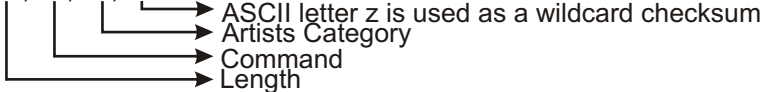
Note: commands begin with ASCII A36, which converts to HEX: 41 33 36

The database must be reset prior to a query. Use **Reset DB Selection**: 41 33 36 31 41 E4

Ask how many artists records there are by using the

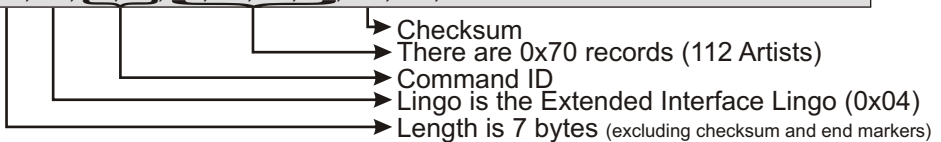
Get Number Categorized DB Records

41, 33, 36, 32, 43, 02, 7A



The iPod will **Return Number Categorized DB Records**. For example:

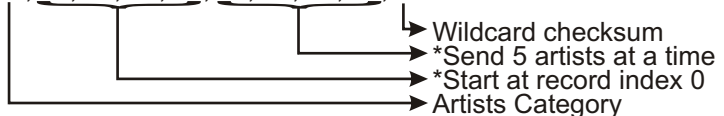
07, 04, 00, 19, 00, 00, 00, 70, 6C, 0D, 0A



Get 5 database records for artists starting at record index 0, by using the

Retrieve Categorized Database Records

41, 33, 36, 3A, 44, 02, 00, 00, 00, 00, 00, 00, 05, 7A



*The commas separate bytes so the largest valid decimal number will be 255 (or HEX FF). 4 bytes are reserved for the record index and 4 bytes are reserved for the number of Artists requested in each transmission. For numbers exceeding 255 (HEX FF), use the preceding (more significant) byte.

Examples:

00, 00, 00, 05 = There are 5 records

00, 00, 00, FF = There are 255 records

00, 00, 01, 01 = There are 257 records

To select the 9th record in the Artists database, use: **Select DB Record**

41, 33, 36, 36, 42, 02, 00, 00, 00, 09, 7A



A0316 Serial Protocol

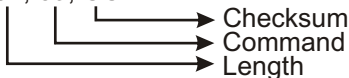
Obtaining Artwork

All numbers are HEX values.

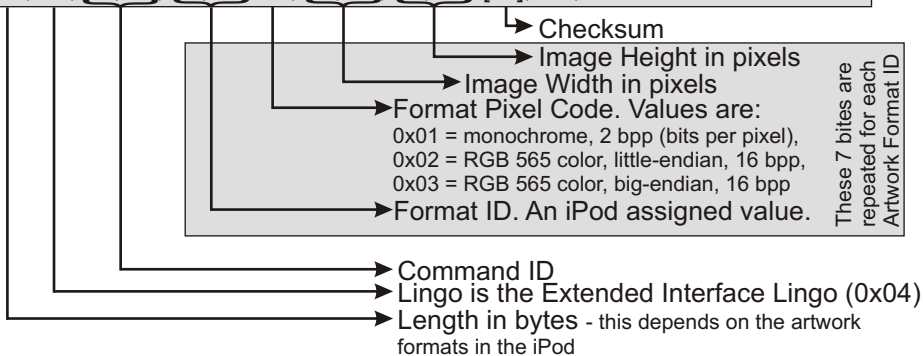
Note: commands begin with ASCII A36, which converts to HEX: 41, 33, 36 nn is used as a place holder for unknown bytes shown in the example below.

Use **Get Artwork Formats**:

41, 33, 36, 31, 59, CC

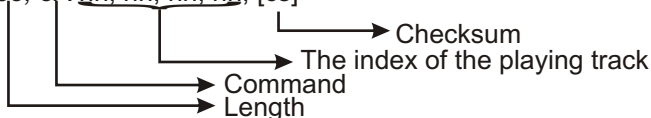


The iPod will **Ret Artwork Formats**. For example:
nn, 04, 00, 0F, nn, nn, 03, nn, nn, nn, [cs], 0D, 0A



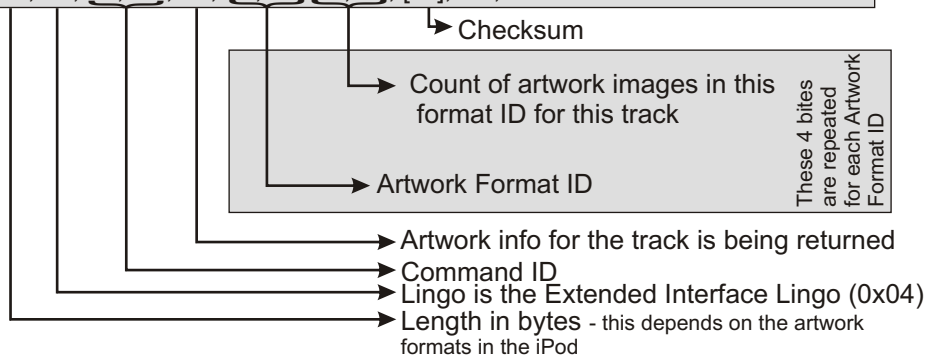
Next, use **Get Indexed Playing Track Info**:

41, 33, 36, 35, 5A nn, nn, nn, nn, [cs]



The iPod will **Return Indexed Playing Track Info**. For example:

nn, 04, 00, 0D, nn, nn, nn, nn, nn, [cs], 0D, 0A



A0316 Serial Protocol

Obtaining Artwork (continued)

Use **Get Track Artwork Times**:

41, 33, 36, 37, 5B, nn, nn, nn, nn, nn, nn, [cs]

- Length
- Command
- Lingo
- Command ID
- Format ID
- Checksum

The iPod will **Ret Track Artwork Times**. For example:

nn, 04, 00, 2B, nn, nn, nn, nn, [cs], 0D, 0A

- Time offset (msec) from start of track where the artwork is located.
Note: There maybe multiple times returned if there are multiple pieces of artwork for a specific format ID.
- Command ID
- Lingo is the Extended Interface Lingo (0x04)
- Length in bytes - this depends on the artwork formats in the iPod
- Checksum

Next, use **Get Track Artwork Data**:

41, 33, 36, 3B, 5C, nn, nn, nn, nn, nn, nn, nn, nn, nn, [cs]

- Length
- Command
- Lingo
- Command ID
- Format ID
- The index of the playing track
- Time
- Checksum

The iPod will **Return Track Artwork Data**. For example:

nn, 04, 00, 11, nn, nn, nn, nn, nn, nn, nn, nn, nn, nn, nn, nn, [data], [cs], 0D, 0A

- Note: These bytes are only included in the first telegraph packet. Subsequent packets only include artwork data.
- Time offset (msec) from start of track where the artwork is located.
Note: There maybe multiple times returned if there are multiple pieces of artwork for a specific format ID.
- Command ID
- Lingo is the Extended Interface Lingo (0x04)
- Length in bytes - this depends on the artwork formats in the iPod
- Checksum
- Artwork Data
- Row Size
- Inset Rectangle Bottom-Right Y value
- Inset Rectangle Bottom-Right X value
- Inset Rectangle Top-Left Y value
- Inset Rectangle Top-Left X value
- Image Height in pixels
- Image Width in pixels
- Format Pixel Code. See Description in RetArtworkFormat example
- Telegraph Index. The data will be sent in multiple telegraph packets.

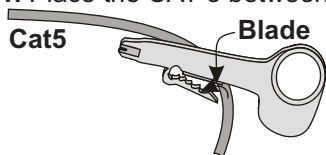
Connection Tips and Troubleshooting

- 1) Be sure you have connected the CAT-5 cable correctly. Follow the TIA-568A standard at both ends. Incorrect wiring can cause distorted sound or prevent the system from working at all!
- 2) Be sure you have connected the speakers in phase. Follow the label on the product. Out of phase speakers can rob the system of its bass. Especially when driving dual-voice-coil speakers.
- 3) Trouble with IR control?
 - a. Make sure you are using the correct remote control. The A0316 will only respond to IR signals from the Apple Remote produced by Apple Computer or the A0505 produced by Channel Vision. Other 3rd party remote controls are not supported.
 - b. Disconnect anything that is connected to the “IR IN” on the output wall plate. Point the A0505 remote at the Wall Dock and see if you can control the iPod. If this works, you need to troubleshoot your IR repeating system.
 - c. Troubleshooting an external IR system: Some IR receivers have a feedback LED that flashes whenever IR signals are received. If the IR receiver you are using has this feature, check to make sure the LED flashes whenever you press buttons on your remote control.
 - i. If you don't see the feedback LED, try replacing the batteries in your remote control.
- 4) The A0316 is designed to charge the iPod (*see compatibility notes on page 3*). When the iPod is not playing music, the screen should indicate that the iPod is being charged. If this does not occur, make sure the power supply is connected to the output wall plate of the A0316.
- 5) Observe wiring distance specifications. The maximum recommended wire length between the wall dock and output wall plate is 350 feet. Although the A0316 has been proven to work at distances of 500 feet, such extreme distances are not recommended because erratic performance may result due to the power loss caused by the CAT5 wire.
- 6) If you are experiencing problems with your iPod that occur even when it is not docked in the A0316, then please contact Apple customer service for support.
- 7) If you need additional help troubleshooting the A0316 please contact Channel Vision technical support or check our website for more details: www.channelvision.com.

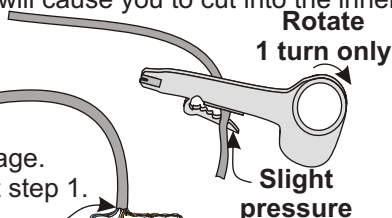
Stripping and Connecting CAT-5 Wire

CAT-5 cable should be stripped with a proper stripping tool, such as Channel Vision's J-110 tool.

1. Place the CAT-5 between the blade and the first notch of the J-110 tool.



2. Rotate the tool only once. Multiple turns will cause you to cut into the inner wires.



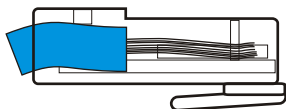
3. Inspect the inner wires for damage. If any wires are cut start over at step 1.

Check for damage

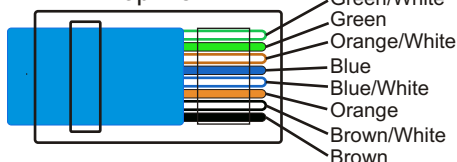


TIA-568A RJ-45 Modular Plug

Side view:



Top view:



Specifications: (typical @25° C)

Audio Output

Output Level:

0.9 Vrms (may vary with iPod model)

THD + Noise:

<0.2%, 20Hz-20kHz

Signal/Noise:

>-96dB

Frequency Response:

20Hz-20kHz +/- 0.3dB

Output Impedance:

600 Ohms

Power Requirements:

15VDC @ 0.500A (500mA)

Power Supply:

15VDC @ 850mA

Wire type:

4-pair, UTP Category 5, 5e or 6

Recommended Max. Cable Length:

350ft.

Video Output:

1 Vp-p (may vary with iPod model)

Video Type:

Composite

RS-232 Protocol Standard:

8-bit data, No Parity, 1 stop bit

Baud Rate

57600

Serial Cable Specification:

Straight through, pins 2, 3, & 5

Dimensions:

Wall Dock (2-gang):

4.88"W x 5.14"H x 1.24"D(front)

Rear Depth: 1.56"

Wall Dock & Keypad (3-gang):

6.73"W x 5.14"H x 1.24"D(front)

Rear Depth: 1.56"

Output Plate (1-gang):

3.15"W x 5.14"H x 1.24"D(front)

Rear Depth: 1.95"

Color:

White

Operating Temperature:

-10°C to +50°C

Specifications subject to change without notice.



1 Year Limited Warranty

Channel Vision Technology will repair or replace any defect in material or workmanship which occurs during normal use of this product with new or rebuilt parts, free of charge in the USA, for one year from the date of original purchase. This is a no hassle warranty with no mail in warranty card needed. This warranty does not cover damages in shipment, failures caused by other products not supplied by Channel Vision Technology, or failures due to accident, misuse, abuse, or alteration of the equipment. This warranty is extended only to the original purchaser, and a purchase receipt, invoice, or other proof of original purchase date will be required before warranty repairs are provided.

Mail in service can be obtained during the warranty period by calling (800) 840-0288 toll free. A Return Authorization number must be obtained in advance and can be marked on the outside of the shipping carton.

This warranty gives you specific legal rights and you may have other rights (which vary from state to state). If a problem with this product develops during or after the warranty period, please contact Channel Vision Technology, your dealer or any factory-authorized service center.

Channel Vision products are not intended for use in medical, lifesaving, life sustaining or critical environment applications. Channel Vision customers using or selling Channel Vision products for use in such applications do so at their own risk and agree to fully indemnify Channel Vision for any damages resulting from such improper use or sale.

"Made for iPod" means that an electronic accessory has been designed to connect specifically to iPod and has been certified by the developer to meet Apple performance standards.

Apple is not responsible for the operation of this device or its compliance with safety and regulatory standards.

iPod is a trademark of Apple Inc., registered in the U.S. and other countries.



Model: A0316 iPod Wall Dock for Distributed Audio

This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) This device must accept any interference received, including interference that may cause undesired operation.



234 Fischer Avenue, Costa Mesa, California 92626 USA
(714)424-6500 • (800)840-0288 • (714)424-6510 fax
email: techsupport@channelvision.com