



TELEPORT™
Z-Wave® enabled
Universal A/V Remote Control
User Manual
For Model WDHC-20



Products that speak Z-Wave
work together better.™

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INTRODUCTION

The Teleport™ Remote Control has sophisticated technology which allows you to consolidate up to four of your original home entertainment remote controls into one easy-to-use product.

Teleport™ lets you control individual Z-Wave® devices or groups of devices by using scenes. For example, you can turn on and off your lights or you can set-back your thermostat and lower your window shades at the same time. Teleport™ will also give you the capability to do macro commands such as when you press play for your DVD player, your lights dim down and the window shades lower or, as another example, if you pause the DVD player the lights could dim up half-way; stop the DVD player and the lights turn on fully. Use your imagination to meet your needs.

Teleport™ is packed with many other advanced features such as:

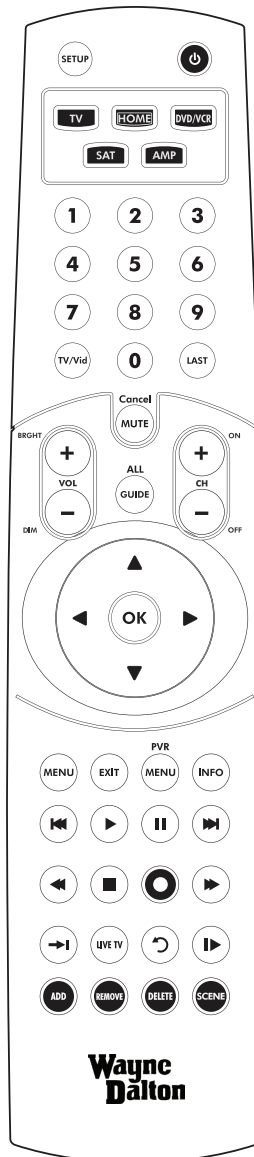
- Capability to fully control your cable or satellite set-top
- Dedicated keys to control popular functions on your DVR/PVR (Digital/Personal Video Recorder)
- Programmable Macro Keys to allow you to activate certain keys in a specific order
- Volume Lock to lock volume controls to one mode or individual modes
- Code Search to help program control of older or discontinued components
- Code library for popular video and audio devices

Before using the product, you will need to install the enclosed batteries and also perform some programming to operate the specific home entertainment devices you wish to control. Please follow the instructions detailed in this manual to set up the unit and then start enjoying your new Teleport™ remote control.






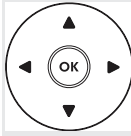

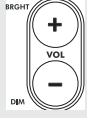
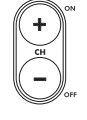
FEATURES AND FUNCTIONS

Use the illustration below to locate features on the Teleport™ Universal A/V Remote Control and then study the KEY CHARTS (on the next 3 pages) to learn how they function.









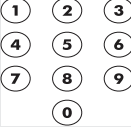


To find out what type of devices can be controlled by each device mode key after programming, see DEVICE TABLE on page 8.



Key Charts

Key	Function
	Use SETUP for all programming sequences. Also use to turn backlighting ON/OFF, if applicable.
	Press POWER once to turn ON or OFF a home entertainment device.
	Press TV, DVD/VCR, SAT or AMP once to select a home entertainment device to control. Also see DEVICE MODE TABLE on page 8. Each device mode key has an embedded LED (red light) that blinks upon selection and indicates the remote control is working and (after programming) is sending signals.
	Use GUIDE to display the program guide. Use ALL to control all lighting nodes in the network.
	Use INFO to display the current channel and program information.
	Use the CURSOR keys to move the cursor in the program guide and menu screens and to navigate within the interactive service. Use OK to choose options, PPV events, and to tune to programs from the program guide.
	Use EXIT to exit out of your cable converters menu and guide.
	Use VOL+ (or VOL -) to raise (or lower) the audio volume. Use BRIGHT or DIM to control the brightness level of your lights.
	Use CH+ (or CH-) to select the next higher (or lower) channel. For DVD players, use these keys to skip forward (or reverse) through chapters. For amplifiers/receivers, use these keys to select the next higher (or lower) preset station. Use ON or OFF to turn your Z-Wave® compatible devices on or off.






Continued next page...

Key	Function
	Press MUTE once to turn the sound OFF or ON. Press CANCEL to stop the transfer of info from a lighting node to your remote.
	Press LAST once to recall the last channel.
	Use  to command your PVR/DVR to instantly skip forward in the program you are watching.
	Use  to command your PVR/DVR to instantly skip backward in the program you are watching.
	Press LIVE to command your PVR.DVR cable box to return to watching live TV.
	In all modes except SAT, use REW, PLAY, FFWD, STOP and PAUSE to control a VCR, DVD player, or a PVR (after selecting a desired device.) To record in the VCR mode, press REC twice. In the SAT mode, use these keys to control the DVR.PVR functions of the set-top box.
	Use the keypad numbers 1 - 9 and 0, to directly tune channels (e.g., 09.) For amplifiers/receivers, use the keypad numbers to select inputs 1 through 10.
	Use TV/VID to select an input source.
	Use ADD, REMOVE, DELETE, or SCENE to control your Z-Wave® compatible devices.

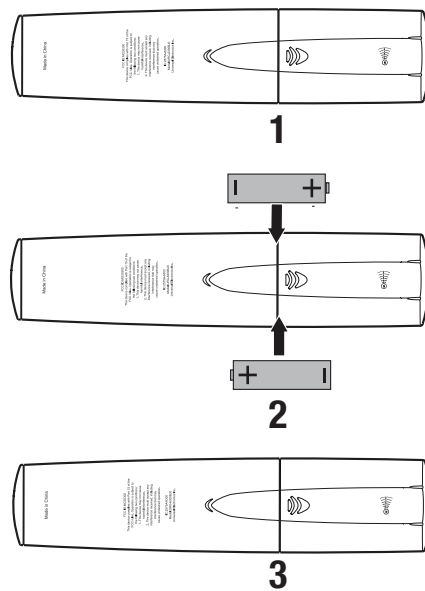
Device Mode Table

NOTE: Please refer to the table below when performing the instructions in "Programming Device Control" on page 9 or "Setting Up a Combo Unit" on page 11.

After programming, the Teleport™ Remote Control will be able to control the following types of devices:

Device Mode	Controls these types of devices
	Audio Amplifier, Tuner, Receiver, CD Player, Home Automation, or Miscellaneous Audio
	Television
	DVD Player, VCR, PVR
	Satellite Receiver, Cable Box (Converter), or Video Accessory
	Dedicated to Z-Wave® controls

INSTALLING BATTERIES



1. On the back of the remote control, push the tab and lift off the battery cover.

2. Locate the four (4) enclosed AAA batteries. Match the + and - marks with those in the battery case, then insert them.

Continued next page...

3. Align the keys in the cover with the keys in the case and press the cover back into place. The tab should click when the cover is locked.



4. Test the remote control by pressing any mode key (e.g. TV.) If the batteries are inserted correctly, the LED (red light) will blink once.

NOTE: When batteries need replacement, the mode LED blinks 5 times with each key press. Replace the batteries and the unit will be restored to its full functionality, complete with your favorite settings.

PROGRAMMING DEVICE MODE CONTROL

The Teleport™ Remote Control is pre-programmed to operate an RCA satellite receiver, TV, DVD player, and VCR. It can also control Z-Wave® certified devices, regardless of manufacturer. To control devices other than the default brands, perform the following steps; otherwise skip this section.

NOTES: For control of a Combo device (for example, a TV/VCR combo), skip this section and perform the instructions on "Setting Up a Combo Unit" on page 11. Also, refer to "Device Table" on page 8 to determine which devices can be programmed onto each device key.

1. Turn on a device and, if applicable, insert video media, (e.g., cassette or disk.)

NOTE: Please read Steps 2 - 4 completely before proceeding. Highlight or write down the codes and device you wish to program before proceeding to Step 3.



2. On the remote control, press a mode key once (i.e., TV, DVD/VCR, SAT or AMP); it will blink once. Then press and hold SET UP until the selected mode key blinks twice.

3. Use the "Manufacturer's Codes" (starting on page 31) to locate the type of device and brand name, then enter the first five-digit code for your device. If performed correctly, the selected mode key will blink twice.

NOTE: If the selected mode LED emits one long, steady blink, the operation was not successful; repeat the sequence.

Continued next page...



4. Aim Teleport™ at the device and press PWR once. The device should turn off. If it does not, repeat steps 2 -3, trying each code for your brand unit until you find one that works. If it still does not respond, try searching for the code (see “Searching for Your Code” on page 12.)

NOTE: If the device does not have a PWR key, press the PLAY key (▶).

5. Repeat Steps 1 -4 for each device you want Teleport™ to operate. For future reference, record the codes which work in the boxes below.

VCR Code

--	--	--	--	--

Device Type: _____

DVD Code

--	--	--	--	--

Device Type: _____

AMP Code

--	--	--	--	--

Device Type: _____

SAT Code

--	--	--	--	--

Device Type: _____

TV Code

--	--	--	--	--

Device Type: _____

SETTING UP A COMBO UNIT

If you own a combo unit such as a TV/DVD Combo or a TV/VCR Combo, follow the Steps below:

1. Turn on your TV/DVD Combo and insert a DVD, or if TV/VCR Combo, insert a video cassette.



2. On Teleport™ press DVD/VCR once; it will blink once. Then press and hold SETUP until the DVD/VCR mode key blinks twice.

3. Use the “Manufacturer’s Codes” starting on page 28 to locate the brand name and enter the first five-digit code for your combo device (for example, TV/VCR.) If you perform this procedure correctly, the DVD/VCR key will blink twice.

Note: If the DVD/VCR mode key did not blink twice after entering the last digit of the code, repeat steps 2 and 3 entering the same code again.

If the setup code that works for your combo device (for example, TV/DVD combo) also has a separate TV code listed, programming the separate TV code into Teleport™ is necessary for TV volume and channel control. See “Programming Device Control” on page 9.

4. Aim Teleport™ at your combo device (for example TV/DVD combo) and press PWR once. The device should turn off. If it does not respond, repeat steps 2 and 3, trying each code listed for your brand until one works. If it still does not respond, try searching for the code. See “Searching for Your Code” starting on page 12.



5. For future reference, write down each working device code in the boxes below:

TV/VCR or TV/DVD Code

--	--	--	--	--

TV Code (if used)

--	--	--	--	--

SEARCHING FOR YOUR CODE

If your home entertainment device does not respond to the Teleport™ remote control after trying all of the codes listed for your brand, or if your brand is not listed at all, try searching for your code using the following procedure:

NOTE: The example shown below is for a TV, to search for codes of other devices, substitute the appropriate mode key (e.g. DVD/VCR, AMP or SAT) for the device you are searching for.

1. Turn on your TV.



2. On Teleport™, press TV once; it will blink once. Then press and hold SETUP until the TV key blinks twice.



3. Enter 991. The TV key will blink twice.



4. Aim Teleport™ at the TV and press PWR once.



5. Press and release the CH+ key continuously until the TV turns off.

NOTE: In the search mode, Teleport™ will send IR codes from its library to the selected device, starting with the most popular code first.



6. Press PWR. The TV should turn on, then press SETUP to lock in the code.



NOTE: If the TV does not turn on during step 6, then slowly press and release CH- to back through the codes. When the TV turns on press SETUP to lock in the code.

REVEALING DEVICE CODES

If you have set up the Teleport™ remote control by searching for your device code (on the previous page), you may need to determine what the code is.

The example below is for a TV, to reveal the codes of other devices, substitute the appropriate key (e.g. DVD/VCR, AMP or SAT) for the device you are searching for.

1. On Teleport™ press TV once; it will blink once. Then press and hold SETUP until the TV key blinks twice.
2. Enter 990 on the numeric keypad; the TV key will blink twice.
3. For the first digit, press 1 once. Count the number of times the TV key blinks and write down the number in the leftmost TV Code box on page 10 (e.g., 3 blinks = 3.)

NOTE: If a code digit is 0, the selected mode key will not blink.

4. Repeat step 3 four more times for the remaining digits, except press 2 for the second digit, 3 for the third digit, 4 for the fourth digit and 5 for the fifth digit. Write each code in the box provided for TV codes on page 10.

LEARNING FEATURE

Teleport™ has many pre-programmed codes, but you may find there are one or more keys on the original remote which are not defined on Teleport™. As a convenience, Teleport™ includes a Learning feature so you can add functions that are unique to your original home entertainment remote (e.g., VCR tracking up or down.)

Please note the following considerations:

- Your original remote controls must be in working order for Learning to work properly.
- Learned keys are mode-specific, so each one can store a unique function for each mode.
- Do not use the following keys for learning: Device keys, SETUP, RECORD (●), Numeric keypad keys
- Learning capacity is approximately 16 to 25 keys depending on the code being learned.
- Certain device functions are not learnable including multi-frequency types, some high frequency ones, and other unusual formats.
- For optimum learning, avoid high levels of ambient light such as natural sunlight or energy-efficient fluorescent lights.

NOTE: Please have your original remote controls handy before programming learning.

Continued next page...

Programming a Learned Key

NOTE: If more than 15 seconds pass between key presses, the remote exits programming.

1. On Teleport™ press and hold SETUP until the last-selected mode key blinks twice.



9

2. Enter 975 on the numeric keypad.

7

5

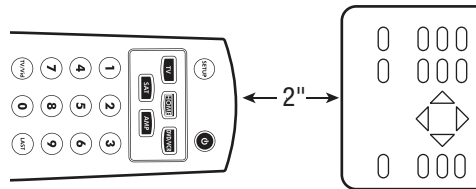
NOTE: If the LED emits one long, steady blink, the operation was not successful; repeat the sequence.



3. Press a mode key once (e.g., TV, DVD/VCR, SAT, AMP) to assign a mode for learning.

4. Press the key on Teleport™ that is to learn the new code.

5. Place the Teleport™ remote control head-to-head (about 2 inches apart) from your original remote control. Locate the key on your original remote control that you want the Teleport™ remote control to learn.



6. On the original remote, press and hold the key you want Teleport™ to learn. The Teleport™ remote control LED will blink rapidly, then turn off. Continue holding the key on the original remote until the Teleport™ remote control LED blinks twice.

NOTE: If the LED on Teleport™ emits one long, steady blink, the operation was not successful; repeat the sequence. If the function is still not captured, press and hold SETUP to exit programming and review the "Learning Precautions" on the previous page. If needed, also see "Troubleshooting" on page 28. After review, start programming again at Step 1.








7. Repeat Steps 2 through 5 for another mode and/or key. To exit programming, press and hold SETUP.

Continued next page...

Deleting a Single Learned Key






This process returns the LEARNED Teleport™ key to its original programming for the mode you select. You can also delete LEARNED programming by teaching a different function to the key. See “Programming a Learned Key” on page 14.

NOTE: If more than 15 seconds pass between key presses, the remote exits programming.

1. On Teleport™ select the mode, containing the key to be deleted.
-  2. Press and hold SETUP until the last-selected mode key blinks twice.
-  3. Enter 976 on the numeric keypad.
-  4. Press a mode key once (e.g., TV, DVD/VCR, SAT, AMP.)
- 
5. Press the key on Teleport™ containing the learned function to be deleted, twice. The remote will blink twice.
-  6. Repeat Steps 2 through 4 for another key. To exit programming, press and hold SETUP.

Deleting All Learned Keys in a Specific Mode

NOTE: If more than 15 seconds pass between key presses, the remote exits programming.

1. On Teleport™ select the mode to be deleted.
-  2. Press and hold SETUP until the last-selected mode key blinks twice.
- 
-  2. Enter 976 on the numeric keypad.
- 
3. Press a mode key twice (e.g. TV, DVD/VCR, SAT, AMP) to clear all the learned keys for that mode. The LED will blink twice.
-  4. Repeat Step 2 to delete another mode. To exit programming, press and hold SETUP.

CHANGING VOLUME LOCK

Volume Lock allows you to control the volume through the device identified as having your primary speaker(s), regardless of which mode (device) you are using. For example: If you are watching a DVD and want to adjust the volume, which is a TV function, you can simply press the volume key up or down without pressing the TV mode key.

You can also perform Individual Volume Unlock on a selected device to set its volume control for independent operation.

NOTE: The audio mode's (AMP) volume controls are active regardless of Volume Lock settings. However, if you lock the volume controls to the AMP mode, you will have control of the audio device's volume in all other modes (i.e, VCR/ DVD, TV, SAT.) This can be advantageous if, for example, you always listen to home entertainment devices through your receiver's speakers.

Locking Volume Control To One Mode (Global VolumeLock)



1. On Teleport™ press and hold SETUP until the last-selected device mode key blinks twice.

9

9

3

2. Enter 993. The last-selected device mode key will blink twice.



3. Select a mode (TV, DVD/VCR, SAT, AMP) which you want to use to control the volume. The selected device mode key will blink twice.

Now, when you press VOL+, VOL-, or MUTE, the volume of the selected device (e.g. TV) is controlled regardless of mode.

Continued next page...

Unlocking Volume Control for a Single Device (Individual Volume Unlock)



1. Assuming Global Volume Lock is active, select a mode on the Teleport™ remote control that you want to unlock (e.g., SAT) and press it once.

9

9

3

2. Next, press and hold SETUP until the device key blinks twice.

3. Enter 993 on the numeric keypad. The last-selected device key will blink twice.



3. Press VOL- once. The last-selected device key will blink twice.

5. Repeat Steps 1 - 3 for each device you want volume to be unlocked.

Now, after you select a device that has volume unlocked (e.g. SAT) pressing VOL+, VOL-, or MUTE will control only that device's volume

Unlocking All Volume Control (Global Volume Unlock)

NOTE: Performing these instructions will set independent volume control for all programmed devices.



1. On Teleport™ press and hold SETUP until the last-selected mode key blinks twice.

9

9

3

2. Enter 993 on the numeric keypad. The last-selected device key will blink twice.



3. Press VOL+ once. The last-selected device key will blink four times.

Continued next page...

MACRO KEY BASICS

The Teleport™ remote control includes a macro key feature. Macro keys allow you to create small programs which activate a series of key presses in a specific order(sequence of commands.) For example, you can set up a macro to do the following set of actions with a single key press: change the channel on your TV, start playing a DVD and dim the lights.

NOTE: Any previously-programmed macro key must be cleared before it can be changed, see "Clearing a Macro Key" below.

Programming a Macro Key

1. On Teleport™ press and hold SETUP until the last-selected mode key blinks twice.
2. Enter 995 on the numeric keypad. The last-selected mode key blinks twice.
3. Select a macro key, for example, the number 1 on the numeric key pad, and press it once.



4. Press the key sequence you want to program into the macro. For example, to turn on your TV and raise its volume, press TV followed by VOL+.

NOTE: You can program up to 15 key presses into one macro.

5. Press and hold SETUP until the last-selected mode key blinks twice.
6. To add another macro, repeat Steps 1 - 5, substituting the new key sequence to be added in Step 4.

NOTE: Programming more than 5 macros on the same macro key overwrites previous settings.

Clearing a Macro Key


1. On Teleport™ press and hold SETUP until the last-selected mode key blinks twice.
2. Enter 995 on the numeric keypad. The last-selected mode key blinks twice.
3. Press the macro key you want to clear once.
4. Press and hold SETUP until The last-selected mode key blinks twice.



This macro key is now clear and ready for re-programming. To re-program, see "Programming a Macro Key" above.


RE-ASSIGNING DEVICE MODE KEYS



The Teleport™ remote control can be set up to control a second device of an already-assigned mode. For example, to have Teleport™ control a TV, cable converter box and two audio receivers, re-assign the unused DVD/VCR mode key to operate the second audio receiver as follows:


NOTE: DVD/VCR is preset at the factory to control an RCA DVD. Performing the steps below will overwrite those settings.

-  1. On Teleport™ press DVD/VCR once: it will blink once. Press and hold SETUP until the DVD/VCR key blinks twice.


-  2. Enter 992 on the numeric keypad.




-  3. Press AMP once, then press DVD/VCR once. The DVD/VCR mode key will blink twice.



The DVD/VCR key is now ready to be programmed for your second audio receiver. See “Programming Device Control” on page 9. To re-assign other mode keys, repeat these steps and substitute the key sequence using the following chart:

NOTE: Only one mode can be assigned to an unused mode key at a time.

To Re-Assign	Perform Key Sequence
DVD/VCR as DVD/2nd AMP	VCR → SETUP → 9 → 9 → 2 → AMP → DVD/VCR
DVD/VCR as DVD/2nd TV	VCR → SETUP → 9 → 9 → 2 → TV → DVD/VCR
DVD/VCR as 2nd SAT	VCR → SETUP → 9 → 9 → 2 → TV → DVD/VCR
DVD/VCR back to VCR	VCR → SETUP → 9 → 9 → 2 → DVD/VCR → DVD/VCR

CREATING A Z-WAVE® NETWORK

The Teleport™ Universal A/V remote control allows you to control lights, thermostats and many other devices around your home using additional Z-Wave® certified products from Wayne-Dalton Corporation.

Teleport™ communicates with your Z-Wave® nodes (devices) using radio signals. Large metal objects, house wiring, walls, furniture, refrigerators, microwaves and similar items, may interfere and reduce the range of your unit. A Z-Wave® network is a collection of Z-Wave® nodes in a mesh type of network. Each Z-Wave® node, regardless of manufacturer, communicates with all the other nodes within its range to route and repeat the signals from one device to the next, thus creating a highly robust network transmission throughout the home.

A Z-Wave® network can have only one primary controller. The primary controller establishes the network security to ensure your network will not operate your neighbors network and vice-versa. It is a good practice to label and protect your primary controller since it is the only Z-Wave® controller that can add more nodes to your network or delete nodes from your network. It is easy to add secondary controllers as your network grows. For more tips and great ideas on how to use and expand Teleport™ with Z-Wave® please visit our website, www.wayne-dalton.com/access.

Information on the following pages provide details on specific commands and features available on the Teleport™ remote control for use with your Z-Wave® network.

The following tips may be useful in setting up Z-Wave® control on your Teleport™ Universal A/V remote control. Page numbers indicate the page in this manual where you can find specific instructions for performing that step.

If you do NOT have an existing network:

1. Install your Z-Wave® nodes that are to be controlled.
2. Delete the Z-Wave® nodes to be controlled from any existing network they may be in. (page 21)
3. Add the nodes to be controlled to Teleport™. (page 21)

NOTE: Your Teleport™ is now the primary controller of your Z-Wave® network.

4. Add the nodes to be controlled to a scene. (page 22)
5. Test your scene by activating the scene. (page 23)
If your scene is not correct, repeat step 4.
6. Repeat steps 4 and 5 for each additional scene you wish to create.
7. If you have additional Z-Wave® controllers, they can be made secondary controllers in the network by copying network and scene information as desired. (page 24)

If you do have an existing Z-Wave® network:

1. Using your existing network's primary controller, transfer the network information to Teleport™. (page 26)
Your Teleport™ is now a secondary controller in your Z-Wave® network.

NOTE: As a secondary controller, some Z-Wave® commands will not be available such as the ability to add nodes to the network or create additional secondary controllers.

2. Add the nodes to be controlled to a Teleport™ scene. (page 22)
3. Test your scene by activating the scene. (page 23)
If your scene is not correct, repeat step 2.
4. Repeat steps 2 and 3 for each additional scene you wish to create.

Adding a Node to your Z-Wave® Network

To add a Z-Wave® node to your Z-Wave® network(or start creating a network,) perform the following steps:

1. On Teleport™ press the HOME key once.
2. Press and release ADD twice. The HOME key red LED blinks rapidly.
3. Press the program button on the Z-Wave® node.
4. The HOME LED blinks green twice to indicate a successful operation..

NOTE: If the HOME red LED emits one long, steady blink, the operation was not successful; repeat the sequence. Be certain Teleport™ is within 3 ft. of the the node.

Deleting a Node from a Z-Wave® Network

To remove a Z-Wave® node from a Z-Wave® network, perform the following steps:

1. On Teleport™ press HOME once.
2. Press and release DEL twice. The HOME red LED blinks rapidly.
3. Press the program button on the node.
4. The HOME LED blinks green twice to indicate a successful operation.

NOTE: If the HOME red LED emits one long, steady blink, the operation was not successful; repeat the sequence.

SETTING UP Z-WAVE® SCENES

A Z-Wave® SCENE is a one or more Z-Wave® nodes that can be pre-set to turn to a previously specified setting (ON, OFF, DIM brightness level, etc...). The Teleport™ remote control allows you to set up a maximum of 20 scenes, containing up to 64 nodes per scene.

Adding a Z-Wave® Node to a SCENE

1. On Teleport™ press and release HOME once.
2. Press and release ADD once.
3. Press and release SCENE once.
4. Press and release a scene number for the scene you wish to add the node to. For scenes 0 - 9 press and release the number for the scene (e.g. 2 for scene 2,) for scenes 10 -19, press SETUP then the second digit of the scene number (e.g. SETUP + 4 = scene 14.) The HOME red LED blinks rapidly.
5. Press the program button on the node.
6. The HOME green LED blinks twice, then the HOME red LED blinks rapidly. Adjust the brightness on the Z-Wave® node within 30 seconds. To configure the node to turn on/off to max/min levels, simply press OK without adjusting brightness.
7. Press OK to save the node in the scene.

NOTE: If the HOME red LED emits one long, steady blink, the operation was not successful; repeat the sequence. Be certain Teleport™ is within 3 ft. of the the node.

Removing a Node from a SCENE

1. On Teleport™ press HOME once.
2. Press and release REMOVE once.
3. Press and release SCENE once.
4. Press and release a scene number for the scene you wish to remove the node from. For scenes 0 - 9 press and release the number for the scene (e.g. 2 for scene 2,) for scenes 10 -19, press SETUP then the second digit of the scene number (e.g. SETUP + 4 = scene 14.) The HOME red LED blinks rapidly.
5. Press the program button on the node.
6. The HOME green LED blinks twice, then the HOME red LED blinks rapidly.

NOTE: If the HOME red LED emits one long, steady blink, the operation was not successful; repeat the sequence.

Deleting a Z-WAVE® SCENE

1. On Teleport™ press HOME once.
2. Press and release DELETE once.
3. Press SCENE once.
4. Press and release a scene number for the scene you wish to remove. For scenes 0 - 9 press and release the number for the scene (e.g. 2 for scene 2,) for scenes 10 thru 19, press SETUP then the second digit of the scene number (e.g. SETUP + 4 = scene 14.) The HOME red LED blinks rapidly.
5. Press the program button on the node.
6. The HOME green LED blinks twice, then the HOME red LED blinks rapidly.

NOTE: If the HOME red LED emits one long, steady blink, the operation was not successful; repeat the sequence.

ACTIVATING Z-WAVE® SCENES

1. On Teleport™ press HOME once.
2. Press and release a scene number for the scene you wish to control. For scenes 0 - 9 press and release the number for the scene (e.g. 2 for scene 2,) for scenes 10 thru 19, press SETUP then the second digit of the scene number (e.g. SETUP + 4 = scene 14.) The HOME red LED blinks rapidly.
3. On Teleport™ press the ON, OFF, DIM, or BRIGHT KEY. The HOME green LED blinks once.

If ON or OFF is pressed, all nodes associated to the scene will turn on or off. If DIM or BRIGHT is pressed, all nodes associated with a scene dim or brighten with each key press.

NOTE: If the HOME red LED emits one long, steady blink, the operation was not fully successful and indicates one or more Z-Wave® nodes failed to respond in the activated scene. The cause will need to be investigated to determine if it is un-responsive for a temporary condition such as the light bulb is burned out or the node has become unplugged or if the failure is due to a catastrophic condition with the Z-Wave® node or the node is missing entirely.

Activating ALL ON/ALL OFF

1. On Teleport™ press HOME once.
2. Press and release ALL once.
3. Press either ON or OFF. The HOME green LED blinks once.

NOTE: If the HOME red LED emits one long, steady blink, the operation was not successful; repeat the sequence.

Adding Nodes to ALL CONTROL

1. On Teleport™ press HOME once.
 2. Press and release ADD once.
 3. Press ALL once. The HOME red LED blinks rapidly.
 4. Press the program button on the Z-Wave® node.
- The HOME green LED will blink twice to indicate the operation was successful.

NOTE: If the HOME red LED emits one long, steady blink, the operation was not successful; repeat the sequence.

Deleting Nodes from ALL CONTROL

1. On Teleport™ press HOME once.
 2. Press and release REMOVE once.
 3. Press ALL once. The HOME red LED blinks rapidly.
 4. Press the program button on the Z-Wave® node.
- The HOME green LED will blink twice to indicate the operation was successful.

NOTE: If the HOME red LED emits one long, steady blink, the operation was not successful; repeat the sequence.

TRANSFERRING NODE AND NETWORK INFORMATION TO A SECONDARY REMOTE

If Teleport™ is your primary controller in your Z-Wave® network, you can add a secondary remote and transfer Teleport™'s node and network information to it. Teleport™ will remain your primary controller and is the only controller that can add or delete Z-Wave® nodes to your network.

1. Place the two controller's near each other.
 2. Press the HOME mode key on Teleport™.
 3. Press and hold SETUP until the HOME red LED blinks twice.
 4. Enter 966 on the numeric keypad. The HOME red LED blinks twice.
 5. Press CH+; the HOME red LED blinks rapidly.
 6. Put the target (secondary) controller into receive mode. Refer to the target controller's user manual for specific instructions.
- The HOME green LED blinks twice to indicate a successful operation.

NOTE: If the HOME red LED emits one long, steady blink, the operation was not successful; repeat the sequence.

7. Add nodes, groups, and scenes to the new secondary remote as needed.

TRANSFERRING NETWORK INFORMATION ONLY TO A SECONDARY REMOTE

If Teleport™ is the primary controller in your Z-Wave® network, you can add a secondary controller to your network, transferring only your Z-Wave® network information to it. Groups, Scenes and other Z-Wave® commands will then need to be created on the secondary controller.

1. Place the two controllers near each other.
2. On Teleport™, press the HOME mode key.
3. Press and hold SETUP until the HOME red LED blinks twice.
4. Enter 966 on the numeric keypad. The HOME red LED blinks twice.
5. Press CH - ; the HOME red LED blinks rapidly.
6. Put the target (secondary) controller into receive mode. Refer to the target controller's user manual for specific instructions.

The Teleport™ HOME key green LED blinks twice to indicate a successful operation.

NOTE: If the HOME red LED emits one long, steady blink, the operation was not successful; repeat the sequence.

7. Add nodes, groups, and scenes to the new secondary remote as needed.

PRIMARY CONTROLLER SHIFT

You can transfer the Z-Wave® primary controller role from Teleport™ remote to another controller. This can be done in two ways: a) transferring all network and scene information or b) transferring network information only.

Transferring Primary Controller Role with all Network and Scene Information:

1. Place the two controllers near each other.
2. On Teleport™, press the HOME mode key.
3. Press and hold SETUP until the HOME red LED blinks twice.
4. Enter 968 on the numeric keypad. The HOME red LED blinks twice.
5. Press CH+; the HOME red LED blinks rapidly.
6. Put the target (secondary) controller into receive mode. Refer to the target controller's user manual for specific instructions.

The Teleport™ HOME key green LED blinks twice to indicate a successful operation.

NOTE: If the HOME red LED emits one long, steady blink, the operation was not successful; repeat the sequence.

7. Add nodes, groups, and scenes to the new primary controller as needed.

Transferring Primary Controller Role with Network Information Only:

1. Place the two controller's near each other.
 2. On Teleport™, press the HOME mode key.
 3. Press and hold SETUP until the HOME red LED blinks twice.
 4. Enter 966 on the numeric keypad. The HOME red LED blinks twice.
 5. Press CH-; the HOME red LED blinks rapidly.
 6. Put the target (secondary) controller into receive mode. Refer to the target controller's user manual for specific instructions.
The Teleport™ HOME key green LED blinks twice to indicate a successful operation.
- NOTE: If the HOME red LED emits one long, steady blink, the operation was not successful; repeat the sequence.
7. Add nodes, groups, and scenes to the new secondary controller as needed.

RECEIVE CONTROLLER COPY

You can transfer the Z-Wave® network information from another Z-Wave® controller to Teleport™. This would then allow Teleport™ to become a new secondary controller or a primary controller if the existing primary controller is programmed to transfer the primary role.

Receiving Z-Wave® Network Information from another Controller:

1. Place the two controllers near each other.
 2. On Teleport™, press the HOME mode key.
 3. Press and hold SETUP until the HOME red LED blinks twice.
 4. Enter 967 on the numeric keypad. The HOME red LED blinks twice.
 5. Put the primary controller into copy send mode.
Refer to the primary controller's user manual for specific instructions.
The Teleport™ HOME key green LED blinks twice to indicate a successful operation.
- NOTE: If the HOME red LED emits one long, steady blink, the operation was not successful; repeat the sequence.
6. Add nodes, groups, and scenes to the Teleport™ remote as needed.

Z-WAVE® NETWORK RESET

Z-Wave® Network Reset clears all Z-Wave® node and network information from Teleport™.

1. Press the HOME key on Teleport™.
2. Press and hold SETUP until the HOME red LED blinks twice.
3. Enter 969 on the numeric keypad. The HOME red LED blinks continuously.
The HOME green LED blinks twice to indicate a successful operation.

NOTE: If the HOME red LED emits one long, steady blink, the operation was not successful; repeat the sequence.

Z-WAVE® NETWORK RE-DISCOVERY

Network re-discovery is used to make your Z-Wave® network more efficient and improve performance if, for example, a Z-Wave® plug-in module was moved across the room.

NOTE: This operation requires Teleport™ to be the primary controller.

CAUTION: This operation may take several minutes depending on the size of your network.

1. On Teleport™, press the HOME key.
2. Press and hold SETUP until the HOME red LED blinks twice.
3. Enter 961 on the numeric keypad. The HOME red LED blinks continuously.
The HOME green LED blinks twice to indicate a successful operation.

NOTE: If the HOME red LED emits one long, steady blink, the operation was not successful; repeat the sequence.

REMOVING A FAILED Z-WAVE® NODE FROM THE NETWORK

NOTE: This operation requires Teleport™ to be the primary controller in your Z-Wave® network.

CAUTION: This operation will PERMANENTLY remove an un-responsive Z-Wave® node from your network even if it is un-responsive for a temporary condition such as the light bulb is burned out or the module has become unplugged. Before performing this operation, thoroughly investigate the cause to confirm it is due to a catastrophic condition with the Z-Wave® node.

If a Z-Wave® node fails to respond in the network, the HOME key LED on Teleport™ will emit a long red blink when trying to access the failed node.

1. Press and hold SETUP until the red LED blinks twice.
2. Enter 972 on the numeric keypad. The HOME green LED will blink continuously.

NOTE: If the HOME red LED emits one long, steady blink, the operation was not successful; repeat the sequence.

CLEARING CUSTOM PROGRAMMING

The Teleport™ remote control contains a Custom Programming Reset program which will remove all custom programming, except your setup codes.

CAUTION: This operation will PERMANENTLY remove all custom settings for Volume Lock, Learned Keys, Channel Lock and numeric keypad keys.

1. On Teleport™ press a mode key (TV, DVD/VCR, SAT, AMP) then press and hold SETUP until the last-selected mode key blinks twice.

NOTE: This does not work on the HOME key for home controls.

2. Enter 980 on the numeric keypad. The last-selected device key blinks twice, pauses and blinks twice again to confirm that all custom programming is cleared.

TROUBLESHOOTING

PROBLEM: Device key does not blink when you press a key.

SOLUTION: Replace the batteries with four(4) new AAA batteries. See "Installing Batteries" on page 8.

PROBLEM: Device key blinks when you press a key, but home entertainment device does not respond.

SOLUTION: Make sure you are aiming the remote control at your home entertainment device and that you are within 15 feet of the device you are trying to control.

PROBLEM: The remote control does not control home entertainment devices or commands are not performing properly.

SOLUTION: Try all listed codes for the device brand being set-up. Make sure all devices can be operated with an infrared remote control.

PROBLEM: No volume on a second TV.

SOLUTION: Follow instructions under "Changing Volume Lock" on page 14.

PROBLEM: PLAY and STOP keys do not work on a Motorola DCT-2000 cable converter.

SOLUTION: Re-program the SAT key for cable code 0476. See "Programming Device Control" on page 9.

PROBLEM: Tried SEARCH METHOD and still could not find a working code.

SOLUTION: Try SEARCH METHOD again after clearing out the device key using the following procedure:

- a) Press and hold SETUP until device key blinks twice.
- b) Enter 992.
- c) Press and release the device key to be cleared, twice.

PROBLEM: Remote control does not turn on Sony or Sharp TV/VCR Combo.

SOLUTION: For power on, these products require programming TV codes on the remote control. For Sony, use TV code 0000 and VCR code 032. For Sharp, use TV code 0093 and VCR code 0048.

FCC NOTICE

This equipment 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 residential installation. 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.

However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

This equipment has been verified to comply with the limits for a class B computing device, pursuant to FCC Rules. In order to maintain compliance with FCC regulations, shielded cables must be used with this equipment. Operation with non-approved equipment or unshielded cables is likely to result in interference to radio and TV reception. The user is cautioned that changes and modifications made to the equipment without the approval of manufacturer could void the user's authority to operate this equipment.

FCC ID: MG35300

ADDITIONAL INFORMATION

This product does not have any user-serviceable parts. Opening the case, except for the battery cover, may cause permanent damage to your Teleport™ Remote Control.

- For help via the Internet, visit us at:
www.wayne-dalton.com/access

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MANUFACTURER'S CODES

Setup Codes for Audio Amplifiers

Adcom	30577, 31100
Aiwa	30406
Bose	30674
Carver	30269
Denon	30160
Durabrand	31561
Elan	30647
GE	30078
Harman/Kardon	30892
JVC	30331
Left Coast	30892
Lenox	31561
Linn	30269
Luxman	30165
Magnavox	30269
Marantz	30892, 30321, 30269
McIntosh	30251
Nakamichi	30321
NEC	30264
Optimus	30395, 30823
Panasonic	30308, 30521
Parasound	30246
Philips	30892, 30269
Pioneer	30823
Polk Audio	30892, 30269
RCA	30823
Realistic	30395
Sansui	30321
Shure	30264
Sony	30689, 30220, 30815, 31126
Soundesign	30078, 30211
Technics	30308, 30521
Victor	30331
Wards	30078, 30211
Yamaha	30354, 30133, 30143

Setup Codes for Audio Receivers

ADC	30531
Aiwa	31405, 30158, 30189, 30121, 30405, 31243, 31388, 31641
Akai	31512
Alco	31390
Amphion Media Works	31563, 31615
AMW	31563, 31615
Anam	31609, 31074
Apex Digital	31257, 31430, 31774
Arcam	31120
Audiotronic	31189
Audiovox	31390, 31627
B & K	30701, 30820, 30840
BK	30702
Bose	31229, 30639, 31253, 31629, 31841, 31933
Brix	31602
Cambridge Soundworks	31370
Capetronic	30531
Carver	31189, 30189, 30042
Classic	31352
Coby	31263, 31389
Criterion	31420
Curtis Mathes	30080
Daewoo	31250
Dell	31383
Delphi	31414
Denon	31360, 30004, 31142
Fisher	30042, 31801
Garrard	30463
Gateway	31517
Glory Horse	31263
Go Video	31532
Harman/Kardon	30110, 30189, 30891, 31304, 31306
Hewlett Packard	31181
Hitachi	31273, 31801
Initial	31426
Insignia	31030

Integra	30135, 31298, 31320
JBL	30110, 31306
JVC	30074, 31263, 31374, 31495, 31811, 31871
Kenwood	31313, 31570, 31569, 30027, 31916, 31670, 31262, 31261, 31052, 31032, 30569, 30337, 30314, 30313, 30239, 30186, 30077, 30042
KLH	31390, 31412, 31428
Koss	31366, 31497
Lasonic	31798
Lenoxx	31437
LG	31293
Linn	30189
Liquid Video	31497
LXI	30181
Magnavox	31189, 31269, 30189, 30391, 30531, 31514
Marantz	31189, 31269, 30039, 30189, 31289
MCS	30039, 30346
Mitsubishi	31393
NAD	30320, 30845
Nakamichi	30097, 30876, 31555
Norcent	31389
Nova	31389
Onkyo	30135, 30380, 30842, 31298, 31320, 31531
Optimus	31023, 30042, 30080, 30181, 30186, 30531, 30670, 30738, 30801, 31074
Oritron	31366, 31497
Panasonic	31308, 31518, 30039, 30309, 30367, 31288, 31316, 31548, 31633, 31763, 31764
Philips	31189, 31269, 30189, 30391, 31120, 31266
Pioneer	31023, 30014, 30080, 30150, 30244, 30531, 30630, 31384
Polaroid	31508
Polk Audio	30189, 31289, 31414

Proscan	31254
Quasar	30039
RadioShack	31263
RCA	31023, 31609, 31254, 30054, 30080, 30346, 30530, 30531, 31074, 31154, 31390, 31511
Realistic	30181
Regent	31437
Rio	31383, 31869
Saba	31519
Samsung	31295, 31500
Sansui	30189, 30346
Sanyo	30801, 31251, 31469, 31801
Sharp	30186, 31286
Sharper Image	31263, 31556
Sherwood	30491, 30502, 31077, 31423, 31517, 31653, 31905
Shinonic	31426
Sirius	31602, 31627, 31811, 31987
Sonic Blue	31383, 31532, 31869
Sony	31058, 31441, 31258, 31759, 31622, 30158, 30168, 31349, 31406, 31442, 31558, 31658, 31758, 31858, 31958
Soundesign	30670
Stereophonics	31023
Sunfire	31313, 30313, 30314, 31052
Teac	30463, 31074, 31390, 31528
Technics	31308, 31518, 30039, 30309
Thorens	31189
Toshiba	31788
Venturer	31390
Victor	30074
Wards	30158, 30189, 30014, 30054, 30080
XM	31406, 31414
Yamaha	30176, 30186, 31176, 31276, 31331, 31375, 31476
Zenith	30857, 31293

Setup Codes for Audio Accessories

Accurian	31106
Aiwa	30159
Altec Lansing	31056, 31485
Apple	31115, 31644
Cambridge Soundworks	31530
Creative	30872
iDeck	31106
Marantz	31491
Monitor Audio	31106
Motorola	31464
NaviPod	31644
Netgear	31785
Omnifi31605	
Roku	31828
Russound	31302
Slim Devices	31844
Sony	30159
Yamaha	31809, 31810

Setup Codes for Cable Boxes/Converters

ABC	00003, 00008
Americast	00899
Bell South	00899
Digeo	01187
Director	00476
General Instrument	00476, 00810, 00276, 00003
GoldStar	00144
Hamlin	00273
Jerrold	00476, 00810, 00276, 00003
Memorex	00000
Motorola	01376, 00476, 00810, 00276, 01187
Pace	01877, 00237, 00008
Panasonic	00000, 00107
Paragon	00000
Philips	01305, 00317
Pioneer	01877, 00877, 00144, 00533
Pulsar	00000
Quasar	00000
RCA	01256

Regal	00273
Runco	00000
Samsung	00144
Scientific Atlanta	01877, 00877, 00477, 00008
Sony	01006
Starcom	00003
Supercable	00276
Thomson	01256
Torx	00003
Toshiba	00000
Zenith	00000, 00525, 00899

Setup Codes for CD Players

Aiwa	30157
Burmester	30420
California Audio Labs	30029, 30303
Carver	30157, 30179
Denon	30873, 30003, 30034
DKK	30000
DMX Electronics	30157
Fisher	30179
Garrard	30420
Genexxa	30032
Harman/Kardon	30157, 30173
Hitachi	30032
Integra	30101
JVC	30072
Kenwood	30681, 30626, 30028, 30037, 30190
KLH	31318, 31372, 31373, 31711
Krell	30157
Linn	30157
Magnavox	30157
Marantz	30626, 30029, 30157
MCS	30029
Miro	30000
Mission	30157
MTC	30420
NSM	30157
Onkyo	30868, 30101

Optimus	31063, 30000, 30032, 30037, 30087, 30145, 30179, 30420, 30468, 31075
Panasonic	30029, 30303, 30388, 30752
Parasound	30420
Philips	30626, 30157
Pioneer	31063, 31062, 30032, 31087, 30468
Polk Audio	30157
Proton	30157
QED	30157
Quad	30157
Quasar	30029
RadioShack	31075
RCA	31062, 30032, 30053, 30179, 30420, 30468
Realistic	30179, 30420
Rotel	30157, 30420
SAE	30157
Sansui	30157
Sanyo	30087, 30179
Sharp	30861, 30037
Sherwood	31067
Sonic Frontiers	30157
Sony	30490, 30000, 30100, 31364, 30185
Soundesign	30145
TAG McLaren	30157
Tascam	30420
Teac	30420
Technics	30029, 30303
Victor	30072
Wards	30157, 30053
Yamaha	30490, 30888, 30036, 31292

Setup Codes for DBS

AlphaStar	00772
Coolsat	01806
DirecTV	01377, 00392
Dishpro	01505, 01005, 00775, 01775
Echostar	01505, 01005
Hitachi	00819

HTS	00775, 01775
Hughes Network Systems	00749, 01749
JVC	00775, 01775
LG	01414
Magnavox	00724, 00722
Memorex	00724
Motorola	00869
Panasonic	00247, 00701
Philips	00724, 01076, 00722, 00099
RCA	00566, 00855, 00143, 01392
Samsung	01276, 01109
Sony	01639
Star Choice	00869
Toshiba	00749, 00790, 01285
Uniden	00724, 00722
Zenith	01856

Setup Codes for DVD Players

Accurian	21072, 21416
Adcom	21094
Advent	21016
Aiwa	20641
Akai	20695, 20770, 20899, 21089
Alco	20790
Allegro	20869
Amphion Media Works	20872
AMW	20872
Apex Digital	20672, 20717, 20755, 20794, 20796, 20797, 20830, 21004, 21020, 21056, 21061, 21100
Arrgo	21023
Aspire Digital	21168, 21407
Audiovox	20790, 21071, 21072, 21121, 21122
Axion	21071, 21072
Bel Canto Design	21571
Blaupunkt	20717
Blue Parade	20571
Broksonic	20695, 20868
Cinea	20831

CineVision	20876, 20833, 20869
Citizen	20695, 21277
Coby	20778, 21086, 21107, 21177
Craig	20831
Curtis Mathes	21087
CyberHome	20816, 20874, 21023, 21024, 21117, 21129, 21502
Daewoo	20784, 20705, 20833, 20869, 21169, 21172, 21234, 21242
Denon	20490, 20634
Desay	21407
DigitalMax	21738
Disney	20675, 21270
Dual	21068, 21085
Durabrand	21127
DVD2000	20521
Emerson	20591, 20675, 20821, 21268
Enterprise	20591
ESA	20821, 21268
Fisher	20670
Funai	20675, 21268, 21334
Gateway	21073, 21077, 21158, 21194
GE	20522, 20815, 20717
Go Video	20744, 20715, 20741, 20783, 20833, 20869, 21044, 21075, 21099, 21158, 21304, 21730
Go Vision	21071, 21072
GoldStar	20741
Greenhill	20717
Harman/Kardon	20582, 20702
Hitachi	20573, 20664, 21247
Hiteker	20672
Humax	21588
iLo	21348
Initial	20717
Insignia	21268
Integra	20627
JBL	20702
Jensen	21016

JVC	20558, 20623, 20867, 21164, 21275, 21602, 21863
Kawasaki	20790
Kenwood	20490, 20534
KLH	20717, 20790, 21020, 21149
Koss	20651
Lasonic	20798
Lenoxx	21127
LG	20591, 20741, 20801, 20869
LiteOn	21058, 21158, 21416, 21440, 21738
Loewe	20511
Magnavox	20503, 20539, 20646, 20675, 20821, 21268, 21506
Malata	20782
Marantz	20539
McIntosh	21273
Memorex	20695, 20831, 21270
Microsoft	20522, 21708
Mintek	20839, 20717
Mitsubishi	21521, 20521
NAD	20741
Nakamichi	21222
NEC	20785
Nesa	20717
NexxTech	21402
Norcent	21003, 20872, 21107, 21265
Onkyo	20503, 20627, 20792
Oritron	20651
Panasonic	20490, 20632, 20703, 21362, 21462, 21490, 21762
Philips	20503, 20539, 20646, 20675, 20854, 21260, 21267, 21354
Pioneer	20525, 20571, 20631, 20632
Polaroid	21020, 21061, 21086
Polk Audio	20539
Portland	20770
Presidian	20675, 21072, 21738
Prima	21016
Proscan	20522
ProVision	20778

Qwestar	20651
RCA	20522, 20571, 20717, 20790, 20822, 21022, 21132, 21769
Rio	20869
Rotel	20623, 21178
Rowa	20823
Sampo	20698, 20752
Samsung	20490, 20573, 20199, 20820, 20899, 21044, 21075
Sansui	20695
Sanyo	20670, 20695, 20873
Sensory Science	21158
Sharp	20630, 20675, 20752, 21256
Sharper Image	21117
Sherwood	20633, 20770, 21043, 21077
Shinonic	20533, 20839
Sonic Blue	20869, 21099
Sony	20533, 21533, 20864, 21033, 21070, 21431, 21892
Sova	21122
Superscan	20821
Sylvania	20675, 20821, 21268
Symphonic	20675, 20821
TAG McLaren	20894
Teac	20790
Technics	20490, 20703
Theta Digital	20571
Tivo	21503
Toshiba	20503, 20695, 21045, 21154, 21503, 21588, 21769
Tredex	20800
Urban Concepts	20503
US Logic	20839
Venturer	20790
Vizio	21064, 21226
Xbox	20522, 21708
Yamaha	20490, 20539, 20545
Zenith	20503, 20591, 20741, 20869
Zoece	21265

Setup Codes for DVD/PVR Combos

Controlled by the DVD

Go Video	21730
Humax	21588
Panasonic	20490
Pioneer	20631
RCA	20522
Sharp	21256
Sylvania	20675
Toshiba	21503, 21588

Controlled by the VCR

RCA	20880
Sylvania	20000
Toshiba	21008, 21996

Setup Codes for Home Automation

Accutek	31215
Amana	31716
Audio Access	30154
Bionaire	30846, 31215
Comfortex	30400
Da-Lite	30780
Frigidaire	31333, 31845
GE	30240
GoldStar	31537
Holmes	31215
Hunter Douglas	30433
Kenmore	31537
Lasko	30846
LG	31537
Lightolier	30184
LiteTouch	30084
Lutron	30597, 30318, 31239, 31597
One For All	30167
PCS	30184
RadioShack	30240
Royal Sovereign	31651
Russound	31232, 31233
Security System	30167
Sharper Image	30846
SmartLinc	30184
Somfy	30780
Universal X10	30167
Whirlpool	31332
Windmere	31215
X10	30167

Setup Codes for Satellite Receivers

AlphaStar	00772
Bell ExpressVu	00775, 01170
Chaparral	00216
Coolsat	01806
Crossdigital	01109

DirecTV	01377, 00392, 00566, 00639, 01639, 01142, 00247, 00749, 01749, 00724, 00819, 01856, 01076, 01108, 00099, 01109, 01392, 01414, 01442, 01443, 01444, 01609, 01640
Dish Network System	01505, 01005, 00775, 01170, 01775
Dishpro	01505, 01005, 00775, 01775
Echostar	01505, 01005, 00775, 01170, 01775
Expressvu	00775, 01775
GE	00566
General Instrument	00869
GOI	00775, 01775
Hisense	01535
Hitachi	00819, 01250
HTS	00775, 01775
Hughes Network Systems	01142, 00749, 01749, 01442, 01443, 01444
Humax	01790
iLo	01535
JVC	00775, 01170, 01775
LG	01226, 01414
Magnavox	00724, 00722
Memorex	00724
Mitsubishi	00749
Motorola	00869
Next Level	00869
Panasonic	00247, 00701
Pansat	01807
Paysat	00724
Philips	01142, 00749, 01749, 00724, 01076, 00722, 00099, 01442, 00856
Proscan	00392, 00566
Proton	01535
RadioShack	00869
RCA	00566, 00855, 00143, 01392
Samsung	01377, 01276, 01108, 01109, 01442, 01609
Sony	00639, 01639, 01640

Star Choice	00869
Tivo	01142, 01442, 01443, 01444
Toshiba	00749, 01749, 00790, 01285
UltimateTV	01392, 01640
Ultrasat	01806
Uniden	00724, 00722
US Digital	01535
USDTV	01535
Voom	00869
Zenith	01856, 00856

Setup Codes for DVR/PVR Systems

ABS	21972
Alienware	21972
CyberPower	21972
Dell	21972
DirecTV	20739
Gateway	21972
Go Video	20614
Hewlett Packard	21972
Howard Computers	21972
HP	21972
Hughes Network Systems	20739
Humax	20739
Hush	21972
iBUYPOWER	21972
Linksys	21972
Media Center PC	21972
Microsoft	21972
Mind	21972
Niveus Media	21972
Northgate	21972
Panasonic	20614, 20616
Philips	20618, 20739
RCA	20880
ReplayTV	20614, 20616
Samsung	20739
Sonic Blue	20614, 20616
Sony	20636, 21972
Stack 9	21972
Systemax	21972
Tagar Systems	21972
Tivo	20618, 20636, 20739
Toshiba	21008, 21972, 21996
Touch	21972
Viewsonic	21972
Voodoo	21972
ZT Group	21972

Setup Codes for TVs

A-Mark	10003
Abex	10032
Accurian	11803
Action	10873
Admiral	10093, 10463
Advent	10761, 10783, 10815, 10817, 10842, 11933
Adventura	10046
Aiko	10092
Akai	10812, 10702, 10030, 10672, 11207, 11675, 11676, 11903, 11935
Alaron	10179
Albatron	10700, 10843
Ambassador	10177
America Action	10180
Ampro	10751
Anam	10180
AOC	10030, 10003, 10052, 11365
Apex Digital	10748, 10879, 10765, 10767, 10890, 11217, 11943
Archer	10003
Astar	11531, 11548
Audiovox	10451, 10180, 10092, 10003, 10623, 10710, 10802, 10846, 10875, 11284, 11937, 11951, 11952
Aventura	10171
Axion	11937
Bell & Howell	10154, 10016
BenQ	11032, 11315
Bradford	10180
Broksonic	10236, 10463, 10003, 11911, 11929, 11935, 11938
Byd:sign	11309, 11311
Cadia	11283
Candle	10030, 10046, 10056
Carnivale	10030
Carver	10054
Celebrity	10000
Celera	10765
Champion	11362
Changhong	10765

Cinego	11986
Citizen	10060, 10030, 10092, 10039, 10046, 10056, 10280, 11928, 11935
Clarion	10180
Commercial Solutions	11447, 10047
Concerto	10056
Contec	10180
Craig	10180
Crosley	10054
Crown	10180, 10039
Curtis Mathes	10047, 10054, 10154, 10451, 10093, 10060, 10702, 10030, 10145, 10166, 11919, 11347, 11147, 10466, 10056, 10039, 10016
CXC	10180
CyberHome	10794
Cytron	11326
Daewoo	10451, 10092, 11661, 10039, 10623, 10661, 10672, 11928
Dell	11080, 11178, 11264, 11403
Denon	10145, 10511
Denstar	10628
Diamond Vision	11996, 11997
Dumont	10017
Durabrand	10463, 10180, 10178, 10171, 11034, 10003
Dwin	10720, 10774
Electroband	10000
Electrograph	11623, 11755
Electrohome	10463
Emerson	10154, 10236, 10463, 10180, 10178, 10171, 11963, 11944, 11929, 11928, 11911, 11394, 10623, 10280, 10179, 10177, 10039, 10038
Emprex	11422, 11546
Envision	10030, 10813, 11365
Epson	10833, 10840, 11290
ESA	10812, 10171, 11944, 11963

Fisher	10154
FlexVision	10710
Fujitsu	10179, 10683, 10809, 10853
Funai	10180, 10171, 10179, 11271, 11904, 11963
Futuretech	10180
Gateway	11001, 11002, 11003, 11004, 11755, 11756
GE	11447, 10047, 10051, 10451, 10178, 10021, 10027, 11347, 11917, 11919, 11922
Gibraltar	10017, 10030
Go Video	10886
GoldStar	10178, 10030, 10032, 11926
Grunpy	10180, 10179
Haier	11034, 10768
Hallmark	10178
Hannspre	11348, 11351, 11352
Harley Davidson	10179, 11904
Harman/Kardon	10054
Harvard	10180
Havermy	10093
Helios	10865
Hello Kitty	10451
Hewlett Packard	11088, 11089, 11101, 11494, 11502, 11642
Hisense	10748
Hitachi	11145, 10145, 10016, 10032, 10038, 10056, 10797, 11904, 11960
HP	11088, 11089, 11101, 11494, 11502, 11642
Hyundai	10849, 11219, 11294
iLo	11286, 11603, 11990
Infinity	10054
Initial	11603, 11990
Insignia	10171, 11204, 11326, 11517, 11564, 11963, 12002
Inteq	10017
Janeil	10046
JBL	10054
JCB	10000

Jensen	10761, 10815, 10817, 11299, 11933
JVC	10053, 10731, 11253, 11923
Kaypani	10052
KDS	11498
KEC	10180
Kenwood	10030
KLH	10765, 10767, 11962
Kloss	10024, 10046
Konka	10628, 10632, 10638, 10703, 10707
Kost	11262, 11483
KTV	10180, 10030, 10039, 10280
LG	11265, 10178, 10700, 10823, 10829, 10856, 11178, 11325, 11423, 11758, 11993
Lloyd's	11904
Logik	10016
Luxman	10056
LXI	10047, 10054, 10154, 10156, 10178
MAG	11498
Magnasonic	11928
Magnavox	11454, 10054, 10030, 10706, 11990, 11963, 11944, 11931, 11904, 11525, 11365, 11254, 11198, 10802, 10386, 10187, 10179, 10096, 10024, 10020
Majestic	10016
Marantz	10054, 10030, 10704, 10854, 10855, 11154, 11398
Matsushita	10250, 10650
Maxent	10762, 11211, 11755
Megapower	10700
Megatron	10178, 10145, 10003
Memorex	10154, 10463, 10150, 10178, 10016, 10179, 11911, 11926
MGA	10150, 10178, 10030
Midland	10047, 10017, 10051, 10032, 10039

Mintek	11603, 11990
Minutz	10021
Mitsubishi	10093, 11250, 10150, 10178, 10836, 10868, 11550, 11917
Monivision	10700, 10843
Motorola	10093, 10835
Moxell	10835
MTC	10060, 10030, 10056
Multitech	10180
NAD	10156, 10178, 10056, 10866, 11156
NEC	10030, 10056, 10497, 10882, 11398, 11704
NetTV	10762, 11755
Nikko	10178, 10030, 10092
Norcent	10748, 10824, 11089, 11365, 11589, 11590, 11591
Norwood Micro	11286, 11296, 11303
Noshi	10018
NTC	10092
Olevia	11144, 11240, 11331, 11610
Olympus	11342
Onwa	10180
Optimus	10154, 10250, 10166, 10650
Optoma	10887
Optonica	10093
Orion	10236, 10463, 11463, 10179, 11911, 11929
Panasonic	10250, 10051, 10650, 11291, 11410, 11480, 11919, 11941, 11946, 11947
Penney	10047, 10156, 10051, 10060, 10178, 10030, 10003, 10018, 10021, 10027, 10032, 10039, 11347, 11919, 11926
Petters	11523
Philco	10054, 10030, 10020, 10096
Philips	11454, 10054, 10690, 11154, 11483, 11961
Pilot	10030, 10039
Pioneer	10166, 10038, 10679, 10866, 11260, 11398

Polaroid	10765, 10865, 11262, 11276, 11314, 11316, 11326, 11327, 11328, 11341, 11498, 11523, 11962, 11991, 11992
Portland	10092, 10039
Prima	10761, 10783, 10815, 10817, 11933
Princeton	10700, 10717
Prism	10051
Proscan	11447, 10047, 11347, 11922
Proton	10178, 10003, 10052, 10466
Protron	11320, 11323
Proview	10835, 11401, 11498
Pulsar	10017
Quasar	10250, 10051, 10650, 11919
RadioShack	10047, 10154, 10180, 10178, 10030, 10032, 10039, 10056, 11904
RCA	11447, 10047, 12002, 11958, 11953, 11948, 11922, 11919, 11917, 11547, 11347, 11247, 11147, 11047, 10679, 10090, 10038, 10018
Realistic	10154, 10180, 10178, 10030, 10032, 10039, 10056
Runco	10017, 10030, 10497, 10603, 11398
Sampo	10030, 10032, 10039, 10052, 10762, 11755
Samsung	10060, 10812, 10702, 10178, 10030, 10032, 10056, 10766, 10814, 11060, 11312, 11395, 11575, 11903, 11959
Samsux	10039
Sansui	10463, 11409, 11904, 11911, 11929, 11935
Sanyo	10154, 10088, 10146, 10799, 10893, 11142
Sceptre	10878, 11217, 11360, 11599
Scotch	10178
Scott	10236, 10180, 10178, 10179

Sears	10047, 10054, 10154, 10156, 10178, 10171, 10056, 10146, 10179, 11904, 11926
Sharp	10093, 10039, 10386, 10491, 10688, 10689, 10818, 10851, 11602, 11917, 11393
Sheng Chia	10093
Sherwood	11399
Signature	10016
Signet	11262
SIM2 Multimedia	11297
Simpson	10187
Sony	11100, 10000, 10834, 11317, 11685, 11904, 11925
Soundesign	10180, 10178, 10179
Sova	11320, 11952
Soyo	11520
Spectricon	10003
Spectroniq	11498
Squareview	10171
SSS	10180
Starlite	10180
Studio Experience	10843
Superscan	10093, 10864
Supre-Macy	10046
Supreme	10000
SVA	10748, 10587, 10768, 10865, 10870, 10871, 10872
Sylvania	10054, 10030, 10171, 10020, 10096, 11271, 11314, 11394, 11931, 11944, 11963
Symphonic	10180, 10171, 11904, 11944
Syntax	11144, 11240, 11331
Tandy	10093
Tatung	10003, 11101, 11285, 11286, 11287, 11288, 11361, 11756
Technics	10250, 10051
Technol Ace	10179
Techview	10847
Techwood	10051, 10003, 10056

Teknika	10054, 10180, 10150, 10060, 10092, 10016, 10039, 10056, 10179
Telefunken	10702, 10056
Thomas	11904
TMK	10178, 10056, 10177
TNCi	10017
Toshiba	10154, 11256, 10156, 11265, 10060, 11945, 11936, 11935, 11918, 11704, 11656, 11635, 11524, 11356, 11343, 11325, 11306, 11156, 10845, 10832, 10650, 11971
Totevision	10039
TVS	10463
Ultra	11323
Universal	10027
US Logic	11286, 11303
Vector Research	10030
Victor	10053
Vidikron	10054, 11398
Vidtech	10178
Viewsonic	10797, 10857, 10864, 10885, 11330, 11342, 11578, 11627, 11640, 11755
Viking	10046
Viore	11207
Visart	11336
Vizio	10864, 10885, 11499, 11756, 11758
Wards	10054, 10178, 10030, 10016, 10020, 10021, 10027, 10056, 10096, 10179, 10866, 11156
Waycon	10156
Westinghouse	10885, 10889, 10890, 11282, 11577
White Westinghouse	10463, 10623
Wyse	11365
Yamaha	10030, 10769, 10797, 10833, 10839
Zenith	10017, 10463, 11265, 10178, 10092, 10016, 11904, 11911, 11929
Zonda	10003

Setup Codes for TVs (DLP)

Hewlett Packard	11494
HP	11494
LG	11265
Magnavox	11525
Mitsubishi	11250
Optoma	10887
Panasonic	11291
RCA	11447
Samsung	10812, 11060, 11312
SVA	10872
Toshiba	11265, 11306
Vizio	11499

Setup Codes for TVs (LCD)

Accurian	11803
Action	10873
Akai	11675, 11676, 11935
AOC	11365
Apex Digital	10890, 11217
Astar	11531, 11548
Audiovox	10180, 10710, 10802, 10846, 10875, 11284, 11937, 11951, 11952
BenQ	11315
Byd:sign	11309, 11311
Cadia	11283
Citizen	11935
CyberHome	10794
Dell	11080, 11178, 11264
Emprex	11422, 11546
Envision	10813, 11365
FlexVision	10710
Funai	10171
Go Video	10886
Hannspree	11348, 11351
Hewlett Packard	11088, 11642

HP	11088, 11642
Hyundai	10849, 11219, 11294
iLo	11286, 11603, 11990
Initial	11603, 11990
Insignia	11204, 11517, 11564, 12002
Jensen	11299
Kost	11262
LG	10856, 11178, 11993
Magnavox	10802, 11198, 11365, 11990
Marantz	10855
Maxent	10762, 11211, 11755
Mintek	11603, 11990
Mitsubishi	11250
NetTV	10762
Norcent	11365, 11589, 11591
Norwood Micro	11286, 11296
Olevia	11144, 11240, 11331, 11610
Panasonic	10650, 11941
Petters	11523
Philips	11454, 11483
Polaroid	11262, 11276, 11316, 11341, 11498, 11523
Protron	11320, 11323
Proview	11401
RCA	10047, 11958
Sampo	10762, 11755
Samsung	10812, 10766, 10814, 11395, 11575
Sansui	11409
Sanyo	11142
Sceptre	10878, 11217, 11360, 11599
Sharp	10093, 10818, 11602
Sherwood	11399
Signet	11262
Sony	11685
Sova	11320
Soyo	11520
Superscan	10864
SVA	10587, 10870, 10871
Sylvania	10171, 11271, 11314, 11394
Symphonic	10171

Syntax	11144, 11240, 11331
Tatung	11286
Techview	10847
Toshiba	10845, 11343, 11524, 11635, 11656
Ultra	11323
US Logic	11286
Vidikron	11398
Viewsonic	10857, 10864, 10885, 11330, 11578, 11627, 11640
Visart	11336
Vizio	10864, 10885, 11756, 11758
Westinghouse	10885, 10889, 10890, 11282, 11577
Wyse	11365
Zenith	11265

Setup Codes for TVs (Plasma)

Akai	10812, 11207, 11675
Albatron	10843
BenQ	11032
Byd:sign	11311
Daewoo	10661
Dell	11264
Electrograph	11623, 11755
ESA	10812
Fujitsu	10683, 10809, 10853
Funai	11271
Gateway	11001, 11002, 11003, 11004, 11755, 11756
Helios	10865
Hewlett Packard	11089, 11502
Hitachi	10797
HP	11089, 11502
Insignia	11564
JVC	10731
LG	10178, 10829, 10856, 11423, 11758
Marantz	10704, 11398
Maxent	11755
Mitsubishi	10836

Monivision	10843
Motorola	10835
Moxell	10835
NEC	11398, 11704
NetTV	11755
Norcent	10824, 11089, 11590
Norwood Micro	11303
Panasonic	10250, 10650, 11480
Philips	10690
Pioneer	10679, 11260, 11398
Polaroid	10865, 11276, 11327, 11328
Proview	10835
Runco	11398
Sampo	11755
Samsung	10812, 11312
Sony	10000, 11317
Studio Experience	10843
SVA	10865
Sylvania	11271, 11394
Tatung	11101, 11285, 11287, 11288, 11756
Toshiba	10650, 11704
US Logic	11303
Viewsonic	10797, 11755
Viore	11207
Vizio	11756, 11758
Yamaha	10797
Zenith	10178

Setup Codes for TV/DVD Combos

Controlled by the TV

Accurian	11803
Advent	11933
Akai	11675, 11935
Apex Digital	11943
Audiovox	11937, 11951, 11952
Axion	11937
Broksonic	11935
Cinego	11986
Citizen	11935
Diamond Vision	11997
Emerson	11394, 11963
ESA	11963
Funai	11963
Hitachi	11960
iLo	11990
Initial	11990
Insignia	11963, 12002
Jensen	11933
KLH	11962
LG	11993
Magnavox	11963, 11990
Mintek	11990
Panasonic	11941
Philips	11961
Polaroid	11962, 11991
Prima	11933
RCA	11948, 11958, 12002
Samsung	11903
Sansui	11935
Sova	11952
Sylvania	11394, 11963
Toshiba	11635, 11935

Controlled by the DVD

Advent	21016
Akai	20695
Apex Digital	20830
Audiovox	21071, 21121, 21122

Axion	21071
Broksonic	20695
Citizen	20695
Emerson	20675, 21268
ESA	21268
Funai	21268
Go Vision	21071
Hitachi	21247
Insignia	21268
Jensen	21016
Magnavox	21268
Panasonic	21490
Philips	20854, 21260
Prima	21016
RCA	21022
Samsung	20899
Sansui	20695
Sova	21122
Sylvania	20675, 21268
Toshiba	20695

Setup Codes for TV/VCR Combos

Controlled by the TV

America Action	10180
Audiovox	10180
Broksonic	11911, 11929
Citizen	11928
Curtis Mathes	11919
Daewoo	11928
Emerson	10236, 11911, 11928, 11929
Funai	11904
GE	11917, 11919, 11922
GoldStar	11926
Harley Davidson	11904
Hitachi	11904
JVC	11923
Lloyd's	11904
Magnasonic	11928
Magnavox	11904, 11931
Memorex	11926
Mitsubishi	11917
Orion	11911, 11929
Panasonic	11919
Penney	11919, 11926
Quasar	11919
RadioShack	11904
RCA	11917, 11919, 11922
Samsung	11959
Sansui	11904, 11911, 11929
Sears	11904, 11926
Sony	11904, 11925
Sylvania	11931
Symphonic	11904
Thomas	11904
Toshiba	11918, 11936
Zenith	11904, 11911, 11929

Controlled by the VCR

America Action	20278
Audiovox	20278
Broksonic	20002, 20479, 21479

Citizen	21278
Colt	20072
Curtis Mathes	21035
Daewoo	21278
Emerson	20002, 20479, 20593, 21278, 21479
Funai	20000
GE	20240, 20807, 21035, 21060
GoldStar	21237
Harley Davidson	20000
Hitachi	20000
LG	21037
Lloyd's	20000
Magnasonic	20593, 21278
Magnavox	20000, 20593, 21781
Magnin	20240
Memorex	20162, 21037, 21162, 21237, 21262
MGA	20240
Mitsubishi	20807
Optimus	20162, 20593, 21162, 21262
Orion	20002, 20479, 21479
Panasonic	20162, 21035, 21162, 21262
Penney	20240, 21035, 21237
Quasar	20162, 21035, 21162
RadioShack	20000, 21037
RCA	20240, 20807, 21035, 21060
Samsung	21014
Sansui	20000, 20479, 21479
Sanyo	20240
Sears	20000, 21237
Sony	20000, 21232
Sylvania	21781
Symphonic	20000, 20593
Thomas	20000
Toshiba	20845, 21145
Zenith	20000, 20479, 21479

Setup Codes for VCRs

ABS	21972
Admiral	20048, 20209
Adventura	20000
Aiko	20278
Aiwa	20037, 20000, 20124
Alienware	21972
America Action	20278
American High	20035
Asha	20240
Audiovox	20037, 20278
Beaumont	20240
Bell & Howell	20104
Broksonic	20184, 20121, 20209, 20002, 20479, 21479
Calix	20037
Canon	20035
Carver	20081
CCE	20072, 20278
Citizen	20037, 20278, 21278
Colt	20072
Craig	20037, 20047, 20240, 20072
Curtis Mathes	20060, 20035, 20162, 21035
Cybernex	20240
CyberPower	21972
Daewoo	20045, 20278, 21278
Dell	21972
Denon	20042
DirectTV	20739
Durabrand	20039, 20038
Dynatech	20000
Electrohome	20037
Electroponic	20037
Emerex	20032
Emerson	20037, 20184, 20000, 20121, 20043, 20209, 20002, 20278, 20479, 20593, 21278, 21479, 21593
Fisher	20047, 20104
Fuji	20035, 20033
Funai	20000, 20593, 21593

Garrard	20000
Gateway	21972
GE	20060, 20035, 20240, 20807, 21035, 21060
Go Video	20432, 20614
GoldStar	20037, 20038, 21237
Gradiente	20000
Harley Davidson	20000
Harman/Kardon	20081, 20038
Harwood	20072
Hewlett Packard	21972
HI-Q	20047
Hitachi	20000, 20042, 20089
Howard Computers	21972
HP	21972
Hughes Network Systems	20042, 20739
Humax	20739
Hush	21972
iBUYPOWER	21972
JVC	20067
KEC	20037, 20278
Kenwood	20067, 20038
KLH	20072
Kodak	20035, 20037
LG	21037
Linksys	21972
Lloyd's	20000
Logik	20072
LXI	20037
Magnasonic	20593, 21278
Magnavox	20035, 20039, 20081, 20000, 20149, 20563, 20593, 21593, 21781
Magnin	20240
Marantz	20035, 20081
Marta	20037
Matsushita	20035, 20162, 21162
Media Center PC	21972
MEI	20035

Memorex	20035, 20162, 20037, 20048, 20039, 20047, 20240, 20000, 20104, 20209, 20479, 21037, 21162, 21237, 21262
MGA	20240, 20043
MGN Technology	20240
Microsoft	21972
Mind	21972
Minolta	20042
Mitsubishi	20067, 20043, 20807
Motorola	20035, 20048
MTC	20240, 20000
Multitech	20000, 20072
NEC	20104, 20067, 20038
Nikko	20037
Niveus Media	21972
Noblex	20240
Northgate	21972
Olympus	20035
Optimus	21062, 20162, 20037, 20048, 20104, 20432, 20593, 21162, 21262
Orion	20184, 20209, 20002, 20479, 21479
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