www.X10.com®

MODEL MK19A

WIRELESS MOUSE REMOTE SYSTEM

INCLUDES JR20A MOUSE REMOTE
AND JR21A WIRELESS RECEIVER

OWNER'S MANUAL

READ THIS FIRST!

SAFETY CONSIDERATIONS

Remember to exercise good common sense when using your X10 Mouse Remote for home automation applications - especially when scheduling unattended devices. There can be some unexpected consequences if not used with care. For example, an empty coffee pot can be remotely turned on. If that should happen, your coffee pot could be damaged from overheating. If an electric heater is turned on by remote control while clothing is draped over it, a fire could result. DO NOT USE the system for the control of high power heating appliances such as portable heaters.

Caution: To reduce the risk of electric shock, do not disassemble any part of the Home Automation System. No user-serviceable parts are inside. If you spill liquid on any accessory unit (Modules, etc.) disconnect the unit from the AC outlet to prevent possible fire or shock hazard and consult authorized service personnel.

Powerline operated equipment or accessories connected to any of these units should bear the UL listing or CSA certification mark and should not have been modified in any way that might defeat their safety features.

Warning: To prevent electric shock hazard, do not expose any part of the Home Automation System to rain or moisture.

FCC CAUTION

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.

This equipment generates and uses radio frequency energy, and if not installed and used properly, that is, in strict accordance with the manufacturers instructions, it may cause interference to radio and television reception. It has been type tested and found to comply with the limits for remote control devices in accordance with the specifications in Sub-Parts B and C of Part 15 of FCC Rules, which are designed to provide reasonable protection against such interference in a residential installation. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause interference to radio or television reception, which can be determined by unplugging the equipment, try to correct the interference by one or more of the following measures.

- Reorient the antenna of the radio/TV experiencing the interference.

- Relocate the interface with respect to the radio/TV.

- Move the interface away from the radio/TV.

- Plug the interface into an outlet on a different electrical circuit from the radio/TV experiencing the interference.

- If necessary, consult your local Dealer for additional suggestions.

NOTE: Modifications to any of the components in this kit will void the user's authority to operate this equipment.

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INTRODUCTION

Congratulations on your purchase of the X10 Mouse Remote and Wireless Receiver.

Wireless Mouse....

The MK19A kit consists of a remote control (JR20A) and a wireless receiver (JR21A). The remote control sends wireless RF signals to the receiver which is connected to your PC. You plug the receiver into the serial port or PS/2 port on your PC and plug your regular mouse into the socket on the receiver. This lets you use the remote as a wireless mouse. You use the mouse pad on the front of the remote to move the cursor around the PC screen, and use the buttons on the back of the remote as the left and right mouse buttons. It's that simple! However, to take advantage of the advanced features of the Mouse Remote, you can install the software that came with it. This lets you configure the remote's special function buttons (WEB, DVD, CD, and Phone). You can configure these buttons to perform special functions such as launching your WEB Browser, for example.

Universal Remote....

You can use the Mouse Remote as a Universal Remote, to control most audio/video products. Control your TV, VCR, Cable Box, Satellite Receiver, etc. all from the same convenient and easy to use remote.

Make your lights and appliances go to work for you....

The X10 Mouse Remote will control most or all of your video and audio equipment. But what really sets it apart from other universal remotes is that you can also control almost any light or appliance in your home - even in another room! And it's easy to install. Within minutes, you can be using your X10 Mouse Remote to dim the lights, start brewing a fresh pot of coffee and play your favorite movie! (Requires X10 Transceiver and Modules, sold separately).

Here are just some of the things you can do with your X10 Mouse Remote...

- Control your entire audio/video and lighting setup for the ultimate Home Theater experience.

- Turn on lights at night to scare away intruders if you hear a noise.

- Start the coffee from your bedroom when you wake up.

- Turn on your electric blanket before the movie ends, so it's nice and warm when you go to bed.

Use this manual to become familiar with your Mouse Remote....

This manual will explain how to set up your Mouse Remote to use it with your PC as a wireless mouse.

Next, it shows you how to set it up to control your existing Audio/Video equipment.

Next, it will show you how you can use it with an X10 Transceiver Module and Lamp Module (sold separately) to operate electrical devices in your home.

Finally, the manual will show how you can expand your system with some of the many additional X10 products you can purchase.

BATTERY INSTALLATION

1. Push the tab and lift off the battery cover.

2. Fit four AAA alkaline batteries, taking care to match the + and - marks in the battery compartment.

SETTING UP YOUR MOUSE REMOTE

BUTTON DESCRIPTIONS

INDICATOR LIGHT
The indicator light flashes when a key is pressed (if the key is available in the selected mode).

POWER
Works in the same way as your original remote. Turns All Lights On in X10 mode.

SET UP
Used to set up the remote to control your TV, VCR, Cable, etc.

PC
Press first to access WEB, DVD, PHONE, or CD functions.

X10
Lets you control X10 Modules to operate lamps and appliances around the home.

WEB
Can be configured with the enclosed software to launch your browser, etc.

DVD
Can be configured with the enclosed software to play disks in your DVD drive.

PHONE
Can be configured with the enclosed software to launch telephony/fax applications, etc.

CD
Can be configured with the enclosed software to launch the PC's CD player.

AUX, TV, CBL, SAT, VCR
Used to select the device you want to control. SAT includes DSS receivers.

0-9
Used as your original remote and to enter device codes. Can also be configured to perform PC functions.

UP ARROW
Used for shift when in PC mode.

ENTER
Used to confirm certain entries.

VOLUME +/- (UP/DOWN)
Works like your original remote. Also brightens and dims lamps in X10 mode. Works as Line Up/Down in PC mode.

CHANNEL +/- (UP/DOWN)
Works like your original remote. Also works as on and off in X10 mode. Also works as Page Up/Down in PC mode.

MOUSE PAD
Moves the cursor around the screen.

MOUSE BUTTONS (ON BACK)
Used as left and right (looking from front) mouse buttons.

MUTE
Works the same as your original remote. Also turns All Modules Off in X10 mode. Also works as Maximize in PC mode.

A-B
Used as a TV/VCR button.

DISP
Used to access on-screen information. Also works as Minimize in PC mode.

PLAY, REW, FF, STOP
Work the same as on your original VCR remote.

SELECT
Used for menu selections on DSS receivers.

TIMER
Used to set the Sleep Timer to automatically switch off the TV or X10 Modules after a preset time.

GUIDE
Displays the main menu on DSS receivers.

REC
Record button. Works the same as your original VCR remote. You must press the REC button twice to begin recording.

PAUSE
Works the same as your VCR remote.

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LAST
Selects the last channel selected.

The Mouse Remote buttons can be programmed to perform various functions using the Mouse Remote software, but they are pre-programmed with the following defaults:

When PC mode is selected the keys default to the following:

Key	PC
Power	Close Application
Enter	Enter
Play	Nudge mouse cursor up
Rew	Nudge mouse cursor left
FF	Nudge mouse cursor right
Stop	Nudge mouse cursor down
Rec	-
Pause	-
0	0
1	1
2	2
3	3
4	4
5	5
6	6
7	7
8	8
9	9
Vol+	Line Up
Vol-	Line Down
CH+	Page Up
CH-	Page Down
Mute	Minimize
A.B	-
Display	Maximize

Key below + Shift

0	-
1	Home
2	Up Arrow
3	Page Up
4	Left Arrow
5	-
6	Right Arrow
7	End
8	Down Arrow
9	Page Down
Vol+	Line Up
Vol-	Line Down
CH+	Page Up
CH-	Page Down
Mute	Minimize
A.B	-
Display	Maximize

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When WEB mode is selected the keys default to the following:

Key	WEB
WEB	Default Browser
Power	-
Enter	-
Play	-
Rew	-
FF	-
Stop	-
Rec	-
Pause	-
0	www.x10.com
1	www.pc.orcaweb.com
2	-
3	-
4	-
5	-
6	-
7	-
8	-
9	-
Vol+	Line Up
Vol-	Line Down
CH+	Page Up
CH-	Page Down
Mute	Minimize
A.B	-
Display	Maximize

Key below + Shift

0	-
1	Home
2	Up Arrow
3	Page Up
4	Left Arrow
5	-
6	Right Arrow
7	End
8	Down Arrow
9	Page Down
Vol+	Line Up
Vol-	Line Down
CH+	Page Up
CH-	Page Down
Mute	Minimize
A.B	-
Display	Maximize

When DVD mode is selected the keys default to the following:

Key	DVD
Power	-
Enter	-
Play	-
Rew	-
FF	-
Stop	-
Rec	-
Pause	-
0	0
1	1
2	2
3	3
4	4
5	5
6	6
7	7
8	8
9	9
Vol+	Line Up
Vol-	Line Down
CH+	Page Up
CH-	Page Down
Mute	Minimize
A.B	-
Display	Maximize

Key below + Shift

0	-
1	Home
2	Up Arrow
3	Page Up
4	Left Arrow
5	-
6	Right Arrow
7	End
8	Down Arrow
9	Page Down
Vol+	Line Up
Vol-	Line Down
CH+	Page Up
CH-	Page Down
Mute	Minimize
A.B	-
Display	Maximize

When CD mode is selected the keys default to the following:

Key	CD
Power	-
Enter	-
Play	Play CD
Rew	Previous Track
FF	Next Track
Stop	Stop CD
Rec	-
Pause	Pause CD
0	CD Track 10
1	CD Track 1
2	CD Track 2
3	CD Track 3
4	CD Track 4
5	CD Track 5
6	CD Track 6
7	CD Track 7
8	CD Track 8
9	CD Track 9
Vol+	Master Vol+
Vol-	Master Vol-
CH+	Next Track
CH-	Previous Track
Mute	Master Mute
A.B	-
Display	Maximize

Key below + Shift

0	CD Track 20
1	CD Track 11
2	CD Track 12
3	CD Track 13
4	CD Track 14
5	CD Track 15
6	CD Track 16
7	CD Track 17
8	CD Track 18
9	CD Track 19
Vol+	Master Vol+
Vol-	Master Vol-
CH+	Next Track
CH-	Previous Track
Mute	Master Mute
A.B	F1
Display	-

When PHONE mode is selected the keys default to the following:

Key	PHONE
PHONE	Default Dialer
Power	-
Enter	-
Play	-
Rew	-
FF	-
Stop	-
Rec	-
Pause	-
0	0
1	1
2	2
3	3
4	4
5	5
6	6
7	7
8	8
9	9
Vol+	Line Up
Vol-	Line Down
CH+	Page Up
CH-	Page Down
Mute	Minimize
A.B	-
Display	Maximize

Key below + Shift

0	0
1	Home
2	Up Arrow
3	Page Up
4	Left Arrow
5	-
6	Right Arrow
7	End
8	Down Arrow
9	Page Down
Vol+	Line Up
Vol-	Line Down
CH+	Page Up
CH-	Page Down
Mute	Minimize
A.B	-
Display	Maximize

MOUSE OPERATION

The MK19A kit consists of a remote control (JR20A) and a wireless receiver (JR21A). The remote control sends wireless RF signals (from up to 40 ft. away) to the receiver which is connected to your PC. You plug the receiver into the serial or PS/2 port on your PC and plug your regular mouse into the socket on the receiver.

If you have a serial mouse....

To your serial mouse

To serial port on your PC

If you have a PS/2 mouse....

To PS/2 port on your PC (using supplied adapter)

To your PS/2 mouse
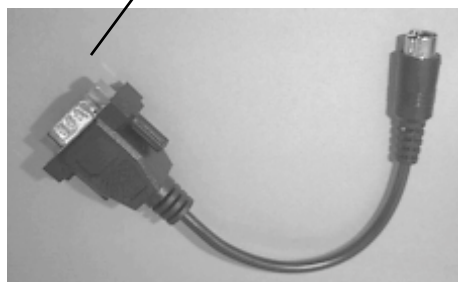
To install the JR21A Mouse Receiver:

First shut down and turn off your PC. Unplug your mouse and plug the mouse Receiver into your PC's mouse port (use the enclosed adapter if you have a PS/2 port). Plug your existing mouse into the socket on the Receiver. Set the switch on the Receiver to the front position. Turn on your PC.

IMPORTANT: You cannot connect the Mouse Receiver to a PS/2 port while the PC is turned on. If you try this, your PC will not recognize your mouse. You can attach the Receiver to a serial port while the PC is turned on but you will then need to re-boot your computer.

Wait for about 10 seconds after re-booting. Now you can use the JR20A remote as a wireless mouse. You use the mouse pad on the front of the remote to move the cursor around the PC screen, and use the buttons on the back of the remote as the left and right mouse buttons. It's that simple!

mouse pad

left mouse button (on back)

right mouse button (on back)
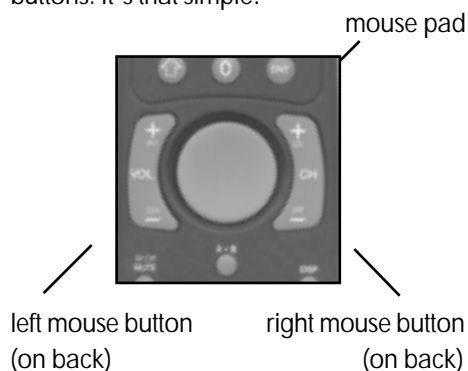
You can, at any time, still use your existing mouse, which always overrides the Mouse Remote. If you want to stop the JR21A receiver from receiving signals from the Mouse Remote for a period of time, set the switch on the JR21A to the back position. Remember to set it back to the front position next time you want to use the Mouse Remote.

Using the Mouse Remote to move the cursor around the screen and open and close applications is very easy to do and allows you, for example, to give PC presentations from across the room.

However, to take advantage of the advanced features of the Mouse Remote, you can install the software that came with it. This lets you configure the remote's special function buttons such as PC, WEB, DVD, PHONE, CD, etc. You can configure these buttons to perform special functions such as launching your WEB Browser, for example. If you prefer you can just use the defaults Listed on pages 9 to 13.

MOUSE SOFTWARE INSTALLATION

Installation for Windows 3.x

Insert the Mouse Setup Disk or CD into your Floppy or CD drive. Launch File Manager and click on the drive letter for your Floppy or CD drive and double-click on Setup.exe. Follow the on-screen prompts to install the Mouse Remote software. After the installation is complete you will be given the opportunity to read the README file. Remember to re-boot your computer after installing the software.

Installation for Windows 95.

Insert Mouse Setup Floppy or CD into your Floppy or CD drive. Use Explorer to open your Floppy or CD drive and double-click on Setup.exe. Follow the on-screen prompts to install the mouse software. After the installation is complete you will be given the opportunity to read the README file. Remember to re-boot your computer after installing the software.

Configuration

Windows 3.x: click on the "RF Remote Mouse" icon in the control panel or click on the minimized mouse icon on the desktop and select the Configure option from the menu, to bring up a picture of the Remote.

Windows 95: click the remote mouse tray icon and select the "Configure" option from the menu, to bring up a picture of the Mouse Remote. (See page 20 also).

When the Mouse Remote picture is displayed, moving the cursor around the screen causes programmable buttons or buttons with additional help (setup/X10/TV/CBL/SAT/VCR) to illuminate. Double-clicking on these buttons will allow them to be programmed or show additional help. Right-clicking on these buttons will display a pop-up menu offering additional options.

When you double-click on a button the window shown below is displayed.

This window lets you configure the button for what you want it to do. There are 6 different things that you can program a button to do. These are:

Launch
WWW
Multimedia
Edit
System
Messages

Launch lets you launch any application you choose from the button. For example: To set up button number 1 to launch your word processor:

Click on the Mouse Remote icon (on the desktop for Win 3.x or in the taskbar for Windows 95) and then click Configure.

When you see the picture of the Mouse Remote, click on the PC key and then double-click on the number 1 button.

When you see the picture above, click on Launch.

Clicking on the Launch button on the screen shown on page 17 displays a window similar to the one below.

The actual window you see depends on what button you clicked and will be different for Launch, WWW, Multimedia, Edit, System, and Messages. In this case you clicked on Launch so you will see the window above. Next click in the File name box and then type in the path and name for your word processor, or browse to find its location. Click OK to exit the above window and then again to exit the window on page 17. Then close the picture of the Mouse Remote. Now any time you press PC followed by 1 on the Mouse Remote, you will launch your word processor.

WWW lets you go straight to whatever URL you designate (after launching your browser). When you click on WWW you will see a window with a dialog box into which you type the WEB address that you want the button to take you to.

Multimedia lets you control your PC's CD or DVD player, etc. from the button. For example to set up a DVD player: On the Configuration picture for the Mouse Remote, first click on PC, then click on DVD then double click on Play. . When you see the screen on page 17, click on Multimedia. Select DVD Player for the media device and **Play** for the function. Repeat the above steps for Stop, FF, REW, Pause, etc.

Edit lets you set up any key to perform tasks such as Page Up, Page Down, Tab, Home, Type etc. Type allows to you assign text to a button so that it will be "typed" into any box you place the cursor over. For example you could assign a password to any button and then "type" it into a dialog box with the press of a button when you launch Compuserve® or America Online,® etc.

System lets you set up any button to maximize, minimize, or resize windows, close applications, shut down Windows® select the Windows 95® Start button, etc.

Messages This is an advanced feature that will primarily be used by programmers. It allows application specific information to be directed to the associated windows application. Refer to the on-line help for more information.

Virtual Keyboard
You can set up any key to launch your e-mail application, word processor, notepad, etc. you can then launch a virtual keyboard. This lets you move the cursor around the screen and press buttons on the virtual keyboard to type text from the Mouse Remote.
To assign the virtual keyboard to the A-B button for example:
Select Configure, click on PC, double-click on A-B and select System. Then select Virtual Keyboard for the function. Then to use the Virtual keyboard: launch your word processor, e-mail, etc. then press PC followed by A-B on the Mouse Remote.

The picture above will appear on top of your word processor. Move the cursor over each key and click the left mouse button on the back of the Mouse Remote (looking from the front) to press the virtual key. When you've finished "typing" press Enter on the Virtual Keyboard to enter the text into your word processor (or whatever other application is on the screen behind the Virtual Keyboard.

Note that the mouse pad and the buttons on the back of the remote are always active, no matter what mode the remote is in (PC, TV, VCR, etc.). Note however that the special function buttons (WEB, PHONE, CD, DVD) are only active after the PC button has been pressed. Note also that the mouse cursor will move faster as you press harder on the mouse pad. It actually has three distinct speeds.

Note also that speed, mouse trails, etc. can be set from the Remote Mouse Properties Sheet in the Control Panel.

Normally you will configure the Mouse Remote's buttons by clicking on the Tray icon (Windows 95) and then clicking Configure. If the tray icon is NOT visible in the system tray (because you closed it) Select Start, then Programs, then Remote, then Remote Mouse Buttons, to again show the Remote Mouse tray icon. Click on the tray icon then click Configure. Alternatively: If the tray icon is NOT visible a Configure button will be available in the properties sheet (in the Control Panel) allowing you to configure the Mouse Remote Buttons from there. If the tray icon IS visible in the system tray there is no Configure button in the Properties Sheet, so the Mouse Remote Buttons can be configured by clicking on the tray icon and then selecting Configure.

There is extensive on-line help available for the Mouse Remote software, so it is suggested that you refer to this help for more details. Note also that information on what each button does is available with the right-click of the mouse.

* Required X10 Transceiver and Modules (sold separately).

TYPICAL APPLICATION SCENARIO

Here's a typical scenario that gives you an idea of what you can do with the power of the Mouse Remote:

Program 10 WEB sites into the numeric keys (e.g. 1 for www.x10.com, 2 for www.orcaweb.com...), then sit back in your armchair and press the PC key followed by the WEB key to launch your WEB browser. Then position the cursor over the URL field and press 1, 2, etc. to go directly to the address and read the latest information from each WEB site. Then using the channel up and down keys and volume up and down keys as scroll functions page through the site, while listening to a CD that you started playing earlier. After a while, skip back to track 7 on the CD by pressing CD followed by 7. Then return to WEB browsing mode by pressing the WEB key. Later still, as it starts to get dark, press the X10 key and turn on the living room lights.* Then press the CD key and press pause while you answer the phone. Press the Power button to close your WEB browser and then press the PHONE button that you previously configured to dial your voice mail to pick up messages on your PC.

To configure the above:

Click the tray icon and select Configure. Click the PC button then double-click the WEB button, then click Launch. Type in the name of your browser, or Browse to find its location. Click OK twice.

Click the PC button, then double-click button 1. Click WWW, then type the desired WEB address. Click OK. Repeat the process for each address you want to program for each numeric button.

Click PC, then CD, then double-click Play. Click Multimedia. Select your media device and function (Play). Repeat the process for Stop, Pause, FF, REW, MUTE, numeric keys, etc.

Get the idea?

SETTING UP FOR TV, VCR, CABLE, CD, AND SATELLITE RECEIVER

1. Turn on the device you want to control (TV, VCR, cable box, satellite receiver etc.).

2. Press and hold SETUP until the LED indicator lights steadily. Release the SETUP button.

3. Press and release the mode button that matches the device you want to control. The LED blinks once. **Use AUX for CDs.**
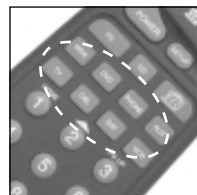
4. Enter the 3 digit Code from the Library Code Tables. The LED turns off after the last digit entered.
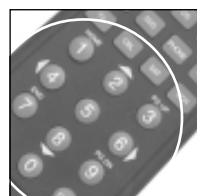
5. Point the remote at the device and press the POWER button. Your device should turn off.
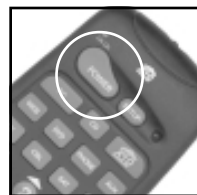
6. Turn your device on and press CH +. If the device responds, setup is complete.
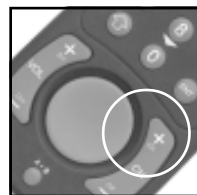
Notes:

For CD players *use the AUX button.*
For ***Laser Disks*** *use the VCR button.*

If your TV/VCR/Cable Box/ Satellite Receiver does not respond, try the other codes for your brand. If it still doesn't respond, try the Code Search method on page 34.

If the LED blinks rapidly when you enter the code, you may have entered an invalid code. Recheck the code in the code list and try again.

If some buttons do not operate your equipment, try one of the other codes for your brand.

TV CODES

ABEX	185
ACME	003
ADA	016
ADC	012,096
ADMIRAL	014,186
ADVENTURA	187
AIKO	029
ALLERON	059
AMTRON	051
AKAI	015
AMSTRAD	202
ANAM NATIONAL	016,051,055,205,206,207
AOC	017,018,020,022,188,189,208
AUDIOVOX	051
BELCOR	017
BELL & HOWELL	014,062,096
BRADFORD	051
BROKWOOD	017
CANDLE	017,021,022,187
CAPEHART	188
CELEBRITY	015
CENTURION	022
CETRONIC	055
CITIZEN	017,021,022,029,051
	055,084,118,184,187,190
CLAIRTONE	189
CLASSIC	055
COLORTYME	017,022,023,213
CONCERTO	017,022
CONTEC/CONY	024,025,026,027,051,055,189
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PANASONIC 016,067,075,183
PHILCO 016,017,018,021,022,025
.... 075,081,082,087,088,090,196,197
PHILIPS 016,017,019,021,022,025,075,081
.... 082,087,088,089,099,100,101,102
PILOT 017,184
PIONEER 017,022,103,104,105,192,198
PORTLAND 017,018,022,029,184
PRICE CLUB 118
PRISM 067
PROSCAN 013,194
PROTON 017,022,025,106,188,199
PULSAR 164
PULSER 017
....
QUASAR 016,067,083,107
....
RADIO SHACK/REALISTIC 013,017,022,024,025
.... 051,054,055,062,108,184,185
RCA 013,016,017,018,020,022,109,111,112
.... 113,114,115,116,142,192,194,200,201
RHAPSODY 189
RUNCO 164
....
SAMPO 017,022,184,185,188
SAMSUNG 017,018,022,024,025,028
.... 084,117,118,119,184,185,214,217
SAMSUX 184
SANYO 017,062,063,093,120,121,182,193
SCOTCH 022
SCOTT 017,022,025,037,048,051,055,059
SEARS 013,017,022,026,059,062,063,064
.... 079,084,118,122,123,193,194,202,210
SHARP 017,022,025,108,124,125
....126,127,135,184,186
SHOGUN 017
SIGNATURE 014,096,128
SIMPSON 021
SONIC 189
SONY 015,019
SOUNDESIGN 017,021,022,051,055,059
SQUAREVIEW 202
SSS 017,051,055
STARLITE 051
SUPREMACY 187
SUPREME 015
SYLVANIA................................. 017,021,022,075,081
.... 082,087,088,089,090
.... 101,129,174,196,197
SYMPHONIC 046,051,202
....
TANDY 186
TATUNG 016,191
TECHNICS 067
TECHWOOD 017,022,067
TEKNIKA 017,018,021,022,025,026
.... 029,051,055,059,084,089
.... 095,096,118,183,184,187
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TELERENT 096
TERA 199
TMK 017,022
TOSHIBA 062,084,102,118
....122,130,131,173,214
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UNIVERSAL 065,100
....
VICTOR 079,195
VIDTECH 017,018,022
VIKING 187
....
WARDS 013,014,017,018,022,037,046
.... 059,065,075,081,082,087,088
.... 089,096,100,101,108,132,133,197
....
YAMAHA 017,018,022
YUPITERU 055
....
ZENITH 096,134,164,165,166,167

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ADMIRAL 014
ADVENTURA 039
AIKO 040
AIWA 015,039
AKAI 016,017,018,019,020
.... 021,124,125,126
AMERICAN HIGH 034
ASHA 026
AUDIO DYNAMICS 022,023
AUDIOVOX 027
....
BELL & HOWELL 024
BEAUMARK 026
BROKSONIC 025,038
....
CALIX 027
CANDLE 026,027,028,029,030,031,032
CANON 034,035,127
CAPEHART 033,123
CARVER 075
CCE 040,074
CITIZEN 026,027,028,029
.... 030,031,032,040
COLORTYME 022
COLT 074
CRAIG 026,027,036,074
CURTIS-MATHES 013,015,022,026
.... 029,031,034,035
CYBERNEX 026
....
DAEWOO 028,030,032,038,039
.... 040,041,123,143
DAYTRON 123
DBX 022,023
DIMENSIA 013
DYNATECH 015,039
ELECTROHOME 027,042
ELECTROPHONIC 027
EMERSON 015,019,025,027,028,034,037
.... 038,039,042,043,044,045,046
.... 047,048,049,050,051,052,053
.... 054,055,056,057,058,059,060
.... 078,118,126,129,130
FISHER 024,036,061,062,063,064,065,131
FUJI 034,132
FUNAI 015,039
GARRARD 039
GE 013,026,034,035,066,128,133
GOLDSTAR 022,027,031,067,134
GRADIENTE 039
....
HARLEY DAVIDSON 039
HARMAN KARDON 022,081
HARWOOD 074

HEADQUARTER 024
HITACHI 015,068,069,070,120,124,133,135
HI-Q 036
....
INSTANT REPLAY 034
....
JCL 034
JC PENNEY 022,023,024,026,027,034,035
.... 068,069,071,072,073,120,131
JENSEN 124
JVC 022,023,024,031,071,124,136
KENWOOD 022,023,024,029,031,071,124,136
KLH 074,144
KODAK 027,034
LLOYD 015,039
LOGIK 074
LXI 027
....
MAGNAVOX 034,035,075,076,117,121,137
MAGNIN 026
MARANTZ 022,023,024,029,031,034,071,075,077
MARTA 027
MASUSHITA 034
MEI 034
MEMOREX 014,015,024,026,027
.... 034,036,039,056,117
MGA 042,078,126
MGN TECHNOLOGY 026
MIDLAND 066
MINOLTA 068,069,120
MITSUBISHI 042,068,069,078,079
.... 080,081,082,083,084
.... 085,086,087,119,126,136
MONTGOMERY WARD 014,088
MOTOROLA 014,034
MTC 015,026,039
MULTITECH 015,026,039,066,074
NEC 022,023,024,029,031,071,077
.... 089,090,091,092,124,136
NIKKO 027
NOBLEX 026
....
OLYMPUS 034
OPTIMUS 014,027
OPTONICA 109,147
PANASONIC 034,035,122,138,139,140
PENTAX 029,068,069,029,120,133
PENTEX RESEARCH 031
PHILCO 034,035,075,076
PHILIPS 034,075,109,137
PILOT 027
PIONEER 023,068,093,094,136
PORTLAND 029,030,032,123
PROSCAN 013
PROTEC 074
PULSAR 117
....
QUARTER 024
QUARTZ 024
QUASAR 034,035,138
RCA 013,016,026,034,068,069,095
.... 096,097,098,099,100,101,102
.... 103,104,120,128,133,138
RADIOSHACK/REALISTIC 014,015,024,026,027
.... 034,035,036,039,042
.... 062,063,109
RADIX 027
RANDEX 027
RICOH 141
RUNCO 117
....
SAMSUNG 018,026,028,046,066,125

SANKY 014,117
SANSUI 023,105,124,136
SANYO 024,026,036
SCOTT 025,028,038,045
.... 051,078,106,129
SEARS 024,027,034,036,061
.... 062,063,064,068,069
.... 120,131
SHARP 014,015,030,042,107,108,109
SHINTOM 017,069,074,111,145
SHOGUN 026
SIGNATURE 015
SINGER 034,074
SONY 017,111,112,132,141
STS 034,120
SYLVANIA.................................. 015,034,035,039
.... 075,076,078,137
SYMPHONIC 015,039
TANDY 015,024
TASHIKO 027
TATUNG 071,124
TEAC 015,039,071,098,124
TECHNICS 034,122
TEKNIKA 015,027,034,113,142,039
TOSHIBA 028,062,064,068,078,106,129
TOTEVSION 026,027
TMK 026,037,060
UNITECH 026

VECTOR RESEARCH 022,023,028,029
VICTOR 023
VIDEO CONCEPTS 022,023,028,029,126
VIDEOSONIC 026

WARDS 014,015,026,027,028,034
.... 036,039,042,068,069,074
.... 109,114,115,116,120,129
XR-1000 034,039,074
YAMAHA 022,023,024,031,071,124
ZENITH 017,111,117,132,141

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ABC 014,015,016,017,018,019,020
ANTRONIX 021,022
ARCHER.. 021,022,023,024

CABLETENNA 021
CABLEVIEW 021
CENTURY 024
CITIZEN 024
COLOUR VOICE 025,026
COMTRONICS 027,028
CONTEC 029

EASTERN 030

GARRARD 024
GC ELECTRONICS 022
GEMINI 031,032
GENERAL INSTRUMENT 016

HAMLIN 033,034,035,048
HITACHI 016
HYTEX 015
JASCO 024
JERROLD 014,016,018,020,031
.... 036,037,062,063
MAGNAVOX 038
MEMOREX 039
MOVIE TIME 015,040,041

NSC 015,040

OAK 015,029,042

PANASONIC 013,061,064
PARAGON 039
PHILIPS 024,025,026,032
.... 038,043,044,045
PIONEER 046,047
PULSAR 039

RADIO SHACK 058
RCA 013,060
REALISTIC 022
REGAL 035,048
REGENCY 030
REMBRANDT 016
RUNCO 039

SAMSUNG 027,047
SCIENTIFIC ATLANTA 019,049,050,051
.... 065,066,067
SIGNAL 027,031
SIGNATURE 016
SL MARX 027
SPRUCER 013
STANDARD COMPONENTS 052
STARCOM 014,020,031
STARGATE 027,031
STARQUEST 031

TANDY 053
TELEVIEW 027
TEXSCAN 052
TOCOM 017,036,054
TOSHIBA 039
TUSA 031
TV86 040

UNIKA 021,022,024
UNITED ARTISTS 015
UNITED CABLE 014
UNIVERSAL 021,022,023,024,055

VIDEOWAY 057
VIEWSTAR 028,038,040,053,056

ZENITH 039

SATELLITE CODES

AMPLICA 028

BIRDVIEW 029

CHANNEL MASTER 030,031,032
CHAPPARAL 013,014,033,034
CHEYENNE 014

DRAKE 015,016,037,038,039,040
DX ANTENNA 035,036

ECHOSTAR 041,042,043

FUJITSU 044,045

GENERAL INSTRUMENTS . 017,018,019,046,047,048

JANEIL 049

JEROLD 050

KENWOOD 051

LUXOR 052

MACOM STATE 053

NORSTAT 054

REALISTIC 020,056,057

SCIENTIFIC ATLANTA 060
SIERRA I, II, III 014
STAR TRAK 061
STS 021,022,023,024,058,059
SUPER GUIDE 062

TOSHIBA 025,063

UNIDEN 026,064

VIDEO CIPHER II 027

DSS CODES

ECHOSPHERE 071
ECHOSTAR 071

DISH NETWORK 071

HUGHES SATELLITE 075

PANASONIC 069,072
PRIMESTAR 070

RCA 065

SONY 066
STAR SIGHT CABLE SERVICES 073

TOSHIBA 067,068,074

LASER DISC CODES

PIONEER 093
PROSCAN 146

RCA 146

CD CODES

ADC 013
ADCOM 014,067
AIWA 015,016
AKAI 068,090
AUDIO ALCHEMY 017
AUDIO TECHNICA 018

BSR 017

CALIFORNIA AUDIO LABS 069
CAPETRONIC 022
CARRERA 017
CARVER 019,020,021
CASIO 070
CURTIS MATHES 070

DENON 023,024

EMERSON 014,025,026

FISHER 020,027,028,029,030,071

GE 078
GENEXXA 025,026,031,072
GOLDSTAR 032,073

HARMON KARDON 033
HITACHI 031

INKEL 034

JC PENNEY 043,070
JVC 035

KENWOOD 027,036,037,038,080,081
KRELL 019
KYOCERA 013

LUXMAN 039,040,082,083,091
LXI 025,070

MAGNAVOX 019,084
MARANTZ 019,041,042,085
MCS 043,070
MGA 044
MISSION 019
MITSUBISHI 044,045

NAD 074,092
NAKAMICHI 046,047
NEC 043
NIKKO 018,026,029
NSM 019

ONKYO 048,049,075
OPTIMUS 017,020,021,025,031
.... 037,050,051,052,053

PANASONIC 069,086,093
PHILIPS 019,084
PIONEER 031,054,055,072
PROTON 019

QUASAR 069

RCA 014,020,025,056,076
RCA Digital Video Disc 096
REALISTIC 014,020,022,025
.... 026,031,042,050,052
ROTEL 019

SAE 019
SAMSUNG 094
SANSUI 019,025,057,076,087
SANYO 020,058,071,088,095
SCOTT 014,025,026
SEARS 025,037,042,070
SHARP 037,042
SHERWOOD 034,042,051,059
SHURE 043
SONY 060,061
STS 013
SYLVANIA 019
SYMPHONIC 062

TEAC 029,042,052,062,063,064
TECHNICS 069,086,089
THETA DIGITAL 084
TOSHIBA 074

HOME AUTOMATION CODES

USING AUX TO CONTROL A SECOND TV, VCR, CABLE BOX OR SATELLITE RECEIVER

The AUX button is normally used to control an audio component such as a CD player, but it can also be configured to control a second TV, VCR, cable box or satellite receiver.

1. Turn on the equipment you want to control.

2. Press and hold SETUP until the LED indicator lights steadily. Release Setup button.

3. Press the AUX button.
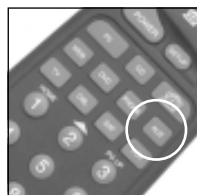
4. Press and release the mode button that matches the A/V equipment you want to control. The LED blinks once.
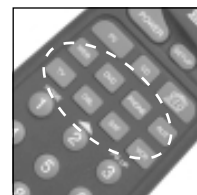
5. Enter the 3 digit Code from the Library Code Tables. The LED turns off after the last digit entered.
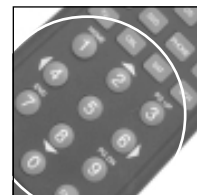
6. Point the remote at your A/V component and press the POWER button. Your A/V component should turn off.

7. Turn your A/V component on and press CH +. If it responds, setup is complete.
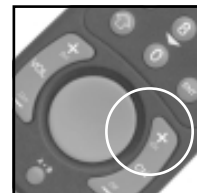
Notes:

If your audio/video component does not respond, try the other codes for your brand. If it still doesn't respond, try the Code Search method on page 34.

If the LED blinks rapidly when you enter the code, you may have entered an invalid code. Recheck the code in the code list and try again.

SEARCHING FOR CODES

1. Turn on the device you want to control.

2. Press and hold SETUP until the LED indicator lights steadily. Release Setup button.

3. Press the mode button that matches the equipment you want to control. The LED blinks once. For AUX, press AUX, then the mode button.
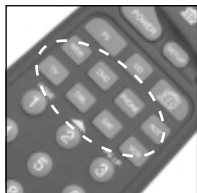
4. Press CH + repeatedly* until the device to be controlled changes channel.
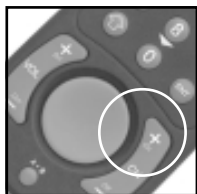
   If you go past the code accidentally, just press LAST repeatedly until the channel changes again.
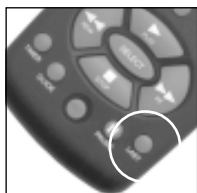
5. Press and release the ENTER button to complete the setup.

*Note: You may have to press CH + many times (50+). If the device does not have a Channel Up function, use the PLAY button (VCR only) or the POWER button.

IDENTIFYING CODES FOUND USING THE SEARCH PROCEDURE

1. Press and hold SETUP until the LED indicator lights steadily. Release Setup button.

2. Press the mode button that matches the equipment you want to identify The LED blinks once. For AUX, press AUX, then the mode button.
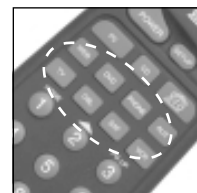
3. Press and release SETUP. The LED blinks once.

4. To find the first digit, press each number button from 0 to 9 until the LED blinks. The number you pressed is the first digit of the code.
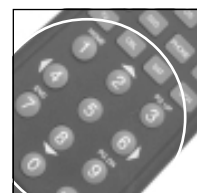
5. Press each number button from 0 to 9 again as above to find the second digit.
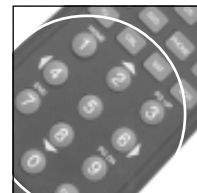
6. Press each number button in turn to find the third digit. When the third digit has been found, the LED will go out.
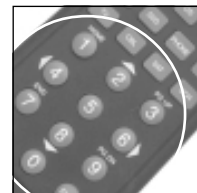
Setting the Sleep Timer

The Sleep Timer automatically turns off the TV after the time you set. Press the TV button, then follow the instructions below to set the Sleep Timer:

1. Press and hold TIMER until the LED indicator lights steadily. Release TIMER button.

2. Use the number buttons to enter the sleep time required (1 to 99 minutes).
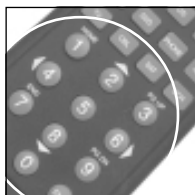
3. Press ENTER to confirm the setting.
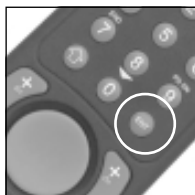
Note: Make sure you leave the remote pointing at the TV to ensure it turns off the TV at the time you set.

The first thing you need to understand is that there are two different devices you need to control your house; Controllers and Modules. Any light or appliance that you want to control is plugged into a Module and that Module is then plugged into a standard AC outlet.

Modules receive commands from Controllers. Examples include the Lamp Module (sold separately). The Transceiver Module (also sold separately) is another example (although it also doubles as a Controller as described later).

Controllers are plugged into standard wall outlets and send commands to Modules over your existing electrical wiring in your house without affecting your electricity in any way.

The Transceiver Module works as a Controller when it is used with a remote control such as the X10 Mouse Remote. When the Transceiver Module receives a command from a remote control it sends digital signals over your existing house wiring to a Module which receives the signals and executes the command. The Remote uses radio frequency (RF) signals to send commands to the Transceiver Module. RF signals can go right through walls, so you can use the Mouse Remote to control lights or appliances from anywhere in your home.

HOUSE CODES AND UNIT CODES

UNIT CODE
DIAL
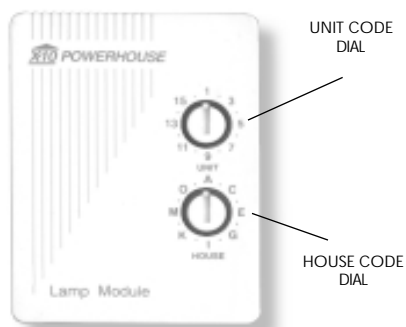
HOUSE CODE
DIAL

Each Module has a specific address made up of a House Code (red dial on the face of the Module) and a Unit Code (black dial on the face of the Module).

The Controller first sends an address and then a command on the AC power lines. Only the Module with a matching address will execute the command. If more than one Module has the same address, both Modules will execute the command.

Addresses are set on the Module by turning the two dials on the front of the Module to the desired letter and number (using a small screwdriver or a coin). The House Code is selected from the letters A through P, and the Unit Code is selected from the numbers 1 through 16.

INSTALLING HOME AUTOMATION COMPONENTS

TRANSCEIVER MODULE

The Transceiver Module (sold separately) receives radio frequency (RF) commands from Mouse Remote to operate a lamp or appliance plugged into it. The Transceiver Module also passes on commands over your house wiring to control other X10 Modules. Note that (unlike the Lamp Module) you cannot dim and brighten a lamp connected to the Transceiver Module.

You should locate the Transceiver Module centrally in the home for maximum range when controlled by the X10 Mouse Remote.

1. Set the House Code to 'A' .

2. Plug a lamp or appliance into the Transceiver Module.

3. Plug the Transceiver Module into a convenient AC outlet. Fully extend the antenna.

LAMP MODULE

The Lamp Module (sold separately) may be used to control any incandescent lamp rated up to 300W. It is not suitable for other types of lamps such as fluorescent or energy saving lamps, or lamps which include a dimmer control.

Caution: Do not connect an appliance such as a coffee pot or heater to the Lamp Module. It may damage the Module and the appliance and could cause a fire hazard.

1. Set the House Code to 'A' and the Unit Code to '2.'

2. Plug a lamp into the Lamp Module.

3. Plug the Lamp Module into a convenient AC outlet.

CONTROLLING X10 MODULES

If you have installed the Transceiver Module (sold separately) you can control it and other X10 modules as follows:

1. Press and release the X10 button.

2. Use the number buttons to enter the Unit Code number of the chosen module. (You do not need to enter '0' first for a single digit number.)
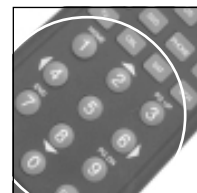
3. Press the appropriate button for the function you require (see below).
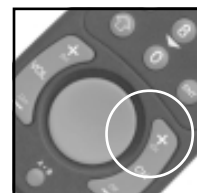
X10 FUNCTIONS:

On:	CHANNEL +
Off:	CHANNEL –
Bright:	VOLUME +
Dim:	VOLUME –
All Lights On:	POWER
All Modules Off:	MUTE

Note: You cannot dim or brighten an Appliance Module. If the module was off and you press Bright or Dim (VOLUME+ or VOLUME-) this will simply turn the module on.

To set the X10 Sleep Timer

The X10 Sleep Timer switches off the chosen modules after the preset time.

1. Press and release the X10 button.

2. Press and hold TIMER until the LED indicator lights steadily. Release the TIMER button.

3. Use the number buttons to enter the module Unit Code for the module to be turned off.
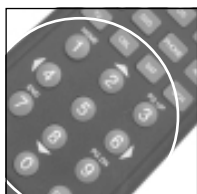
4. Press the desired function button (e.g. CH - to turn the module off, or CH+ to turn it on, after the preset time).

5. Using the number buttons enter the sleep time desired (1 to 99 mins).
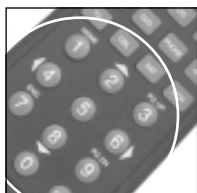
6. Press ENTER to confirm the setting.
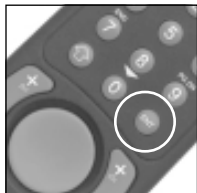
Changing the X10 House Code

The Mouse Remote defaults to House Code A, and in most cases you will not need to change this unless you are experiencing interference from a neighboring X10 system.

1. Press and release the X10 button.

2. Press and hold SETUP until the LED indicator lights steadily. Release the Setup button.

3. Use the number buttons to enter the number equivalent to the chosen House Code (1=A, 2=B ..16=P).
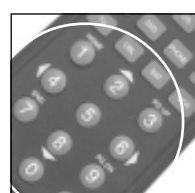
4. Press the ENTER button to confirm the House Code. The LED turns off.
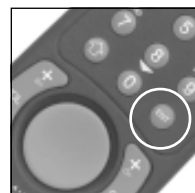
Note: The Housecode you choose must match the Housecode on the Transceiver Module you are using it with.

CONTROLLING AN
IR MINI CONTROLLER (IR543)

If you already own an IR Mini Controller, you will need to change the X10 Home Automation code in the remote to use it. The code for standard X10 Home Automation is 013. The code to control the IR543 Mini Controller is 014. To change the code:

1. **Press and hold SETUP until the LED indicator lights steadily. Release the SETUP button.**

2. **Press and release the X10 button.**

3. **Enter 014 to control an IR Mini Controller, 013 for standard X10 control. The LED turns off after the last digit entered.**
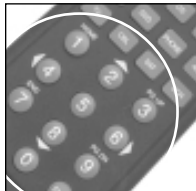
Note: In most cases, you will not need to use an IR543 Mini Controller to receive commands from the Mouse Remote - the Transceiver Module (or any X10 Security System) does this for you and has the added advantage of working through walls. It also has the advantage of letting you control up to 16 X10 Modules - i.e. with a Transceiver when you press 1-6-ON you turn on Module number 16. With an IR543 when you press 1-6-ON you turn on Modules 1 AND 6. The IR543 can only control 10 Modules (1-9 plus 0=10). You cannot control the IR543 Mini Controller and the Transceiver Module at the same time from the X10 button, but you can program an IR Mini Controller under the AUX button.

EXPANDING
YOUR SYSTEM

The products illustrated below represent just a few of the wide range of X10 compatible products you can choose from to expand your Home Automation system. They are available from electrical outlets, department stores and mail order catalogs.

X10 Home Automation products also integrate with X10 security systems, so you can use the security remotes that come with them to control macros and flash lights when the security system is tripped.

Check out our WEB Site at:

www.x10.com

for more information on these and many other X10 products.

*The **Dual Floodlight Motion Detector PR511** turns on at dusk and/or when it detects movement, and sends X10 signals to control other Modules, or trigger ActiveHome macros.*
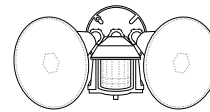
*The **Thermostat***
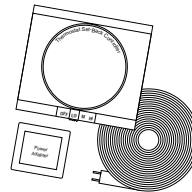
* **Setback Controller TH2807** mounts below your thermostat to reduce the room temperature at night or at the times you set to save energy. No wiring needed to your existing thermostat.*

*Replace your existing wall switches with the **Wall Switch Module WS467**. Installs like a regular dimmer. On/Off and Bright/Dim functions. Other models available for 3-way lighting.*
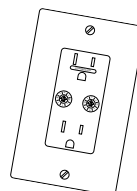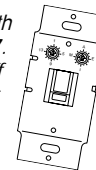
*Replace an existing AC wall outlet with the **Receptacle Module SR227**. Has one 15A/1800W controlled outlet and one outlet which is always on.*

Use a controller to trigger the **Remote Chime Module SC546** *to call Dad up for dinner, or warn people you're about to turn on the sprinkler.*
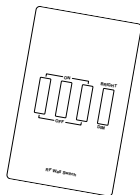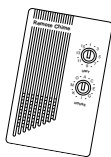
Fit a **Wireless Wall Switch RW724** *anywhere you need an extra switch - with no wires. Sends commands to the Transceiver Module just like a remote.*

Use the isolated contacts on the **Universal Module UM506** *to control pool pumps, sprinklers, drapes and other low voltage equipment. Includes built in warning beeper.*
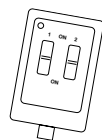
Switch entrance or garage lights on from your car with the convenient **Keychain Remote KC674**.

The **PowerFlash Module PF284** *connects to dry contact or low voltage alarm terminals on your burglar alarm system and flashes X10 controlled lights when it is triggered.*

Plug in a **Heavy Duty Module HD245** *to control 220V appliances such as air conditioners and water heaters.*

Use the **Mini Timer MT10A** *to program up to 4 X10 Modules to go on and off up to twice a day.*
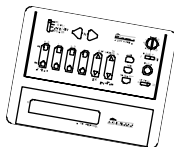
The Transceiver Module doesn't respond to the remote:

- Check the House Code of the Transceiver Module is set to A. If you have changed the Housecode on the remote (see p. 43), check that it matches the Housecode on the module.

- Press the ON/OFF button on the front of the Transceiver Module to confirm it operates the equipment connected to it.

The Transceiver Module works, but other modules don't respond:

- Check that the module has the same Housecode as the Transceiver Module.

- Try plugging the Module into a different outlet.

The Mouse Remote won't control your A/V equipment, or doesn't work at all:

- Use manual controls or the original remote control to confirm the equipment is working properly.

- Be sure you pressed the device key for the device you want to control.

- Re-enter the code for your A/V product from the code listings on pages 23 through 32.

- Try searching for the code as described on page 34.

- Replace the Mouse Remote's batteries.

The Remote won't control my audio CD player:

- The CD key on the Mouse Remote controls the CD player in your PC. To control an external audio CD player set it up under the AUX key. Press Setup, then AUX, then enter the code from the code listings under the heading CD Codes (page 30-31).

Mouse related problems:

No mouse control (even the standard mouse) or no cursor in Windows:

- Ensure that the JR21A Mouse Receiver is plugged into your serial or PS/2 port and your mouse is plugged into the receiver.

- Ensure that the switch on the JR21A is on (forward).

- Ensure that if you plugged the JR21A into your *serial* port that you have a *serial* mouse plugged into the JR21A.

- Ensure that if you plugged the JR21A into your **PS/2** port that you have a **PS/2** mouse plugged into the JR21A.

- Ensure that a compatible driver is loaded (i.e. the Windows default driver or the X10 driver).

- Mice that provide additional functions (e.g. the Intellimouse™) cannot be used in the same port as the Mouse Remote. In this case, attach the Mouse Remote to a different port (Windows 95).

- A DOS driver might be loaded and could be leaving the system in an unknown state before Windows starts. Remove all DOS mouse drivers, and restart Windows.

Note 1: If you can't get your PS/2 mouse to work when plugged into the JR21A receiver (which is plugged into your PS/2 port). Or if the Mouse Remote doesn't work when configured this way: Connect your PS/2 mouse to your PS/2 port and connect the JR21A to your serial port instead. Make sure you set your default mouse back to its original PS/2 driver and install the serial driver for the X10 Mouse Remote.

Note 2: If you can't get your serial mouse to work when plugged into the JR21A receiver (which is plugged into your serial port). Or if the Mouse Remote doesn't work when configured this way: Connect your serial mouse to your serial port and connect the JR21A to your PS/2 port instead (or different serial port). Make sure you set your default mouse back to its original serial driver and install the PS/2 driver for the X10 Mouse Remote (or set its serial driver for a different COM port).

Cursor jumps when a button on the Mouse Remote is pressed:

- The X10 mouse driver included with the system has not been installed. Install it as shown on page 16.

Cursor movement seems slow or sluggish:

- Try different speed settings in the Remote Mouse Properties Sheet in the Control Panel.

Cursor seems to run around the screen by itself, selecting menus and bringing up screens:

- Caused by loss of PS/2 mouse data synchronization. Change the mouse driver to X10 Remote PS/2 Mouse Driver (Resync).

Tray Icon not visible (Windows 95):

- The X10 mouse driver included with the system has not been installed, or the Mouse Remote has not been detected. Check that the driver has been installed and that all mouse connections have been made correctly.

- You might have selected close from the Menu that comes up when you click on the tray icon. Select Start, then Programs, then Remote, then Remote Mouse Buttons, to again show the Mouse Remote tray icon.

Note: speed, mouse trails, etc. can be set from the Remote Mouse Properties Sheet in the Control Panel. If the tray icon is NOT visible in the system tray (because you closed it) then a Configure button will be available in the properties sheet allowing you to configure the Mouse Remote Buttons from there. If the tray icon IS visible in the system tray there is no

Configure button in the Properties Sheet so the Mouse Remote Buttons can be set by clicking on the tray icon and then selecting Configure.

Refer to the online help for more information.

More information on X10 products can be found at

www.x10.com

Software updates and bug fixes for the Mouse Remote software can be found at

www.x10.com/software (case sensitive).

System Requirements

Note: The system requirements are not defined by the Mouse Remote, but by the applications that will be enhanced with the use of the Mouse Remote.

Minimum:

Windows 3.1 or Windows 95, 486/66 processor, 8MB RAM, double speed CD ROM drive, local bus video adapter with 1MB RAM, 128kB level 2 cache, a Windows compatible sound card and a PS/2 or serial mouse.

Recommended:

Windows 95, Pentium,™ 16MB RAM, quad speed CD ROM, PCI bus video adapter with 1MB RAM, 256kB level 2 cache, Windows compatible sound card and a PS/2 or serial mouse.

Note the CD ROM, and video card suggestions are applicable if you want to use the Mouse Remote to remotely control audio or video CDs played on your PC.

For more help please visit:

www.x10.com/support

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2. RETURN THE DEFECTIVE UNIT POSTAGE PREPAID TO THE ADDRESS BELOW

3. ENCLOSE A CHECK FOR $4.00 TO COVER HANDLING AND RETURN POSTAGE.

4. ENCLOSE A DATED PROOF OF PURCHASE.

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