

Hot Link Pro Application Packet Contents:

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Hide Your Gear, Stay In Control Hot Link™ Pro Remote Control Booster Systems

Control freaks and neat freaks finally agree on Hot Link Pro for getting more freedom to roam with your remote control while your AV gear stays hidden.

Hot Link Pro™ Hides inside your cabinet to repeat remote control signals and enhance the distance of remote controls. Hot Link Pro for 6 devices, Hot Link Pro X12 for up to 12 devices.

Hot Link Pro™ is a different way to enhance remote control distance and enclose Audio and Video equipment in cabinets or closets, than the means of radio conversion, blasters or wires.



What Hot Link Pro™ does:

Hot Link Pro™ is a 13-year old patented product that both allows equipment to be hidden and doubles the distance of remote controls by enhancing IR sensitivity. It is generally sold as a "single box solution" for installers and end users. It is "radio-less" and has no attachments to remotes, no batteries, no antennas and no exposed cables to trip over. Hot Link hides inside the cabinet and "sees" even the weakest signals from remotes. Is very compatible with LCD and Plasma TVs when the eye is mounted out of sight, just behind the display. With accessories, Hot Link Pro's sensors and emitters can be easily extended. Repeats carrier frequencies 18Khz to 120Khz.

Hypersensitive Receiving Eye:

While Hot Link is an effective single box solution for intra-cabinet repeating, it enhances the distance of remotes by being more sensitive at the receiving end rather than by adding attachments to the remote or converting to radio waves. Hot Link Pro doubles the distance of remotes up to 70 feet. In total darkness it will go up to 100 feet. But the really pleasing feature of all this hyper-sensitivity, is that the Eye does not have to be direct line of site! The Eye or "target" can be hidden behind a speaker grill, under a toe-kick, or behind or on top of a cabinet or looking through the slot of a door or behind a speaker grill. It does not have to be direct line of site. The Eye merely needs to be in the same room as the remote. This means no drilling of holes in high-end cabinets and no fishing or aiming of the remote by the home theater enthusiast. We call this "radioless" technology.

Eye Mounting Options:

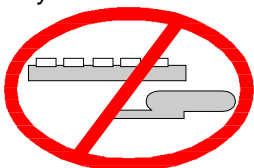
Our patented Infrared receiver eye's hyper-sensitivity allows the eye to see even the weakest signals from your remote. To obtain twice the distance the eye is actually 4 times as sensitive. As the distance between the remote and the eye increases by one increment the power density is reduced by 4 times. When placed in a dark environment the eye actually increases sensitivity to remote pulses up to almost 6 times! When the Hot Link Pro Eye is placed behind a speaker grill, yes the grill "apertures" the remote signal and it also apertures the ambient light causing the eye to become more sensitive to pulsed light produced by remote control signals. This means that in general there is usually no loss and some increase in the remote control's operating range. THE EYE IS HIDDEN!

Hot Link Pro's IR Eye comes with a small mounting kit with a screw tab and velcro to mount the eye almost anywhere.

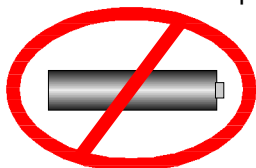


All the benefits, none of the drawbacks!

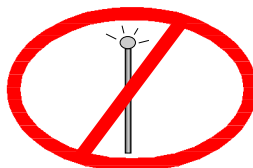
Hot Link Pro hides inside your cabinet while repeating remote commands faithfully and allowing you more freedom to roam with your remote! This is what we call "**System Transparency**". You get all of the above benefits with no attachments to the remote, no batteries, no antennas, no added radio noise and no unsightly externally mounted components. Hot Link works with your remotes. You do not have to use a specified remote as with some other brands of IR repeaters.



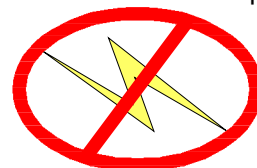
No attachments to remotes



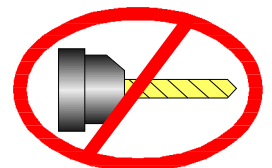
No batteries to change



No unsightly antennas



No radio noise added to your home



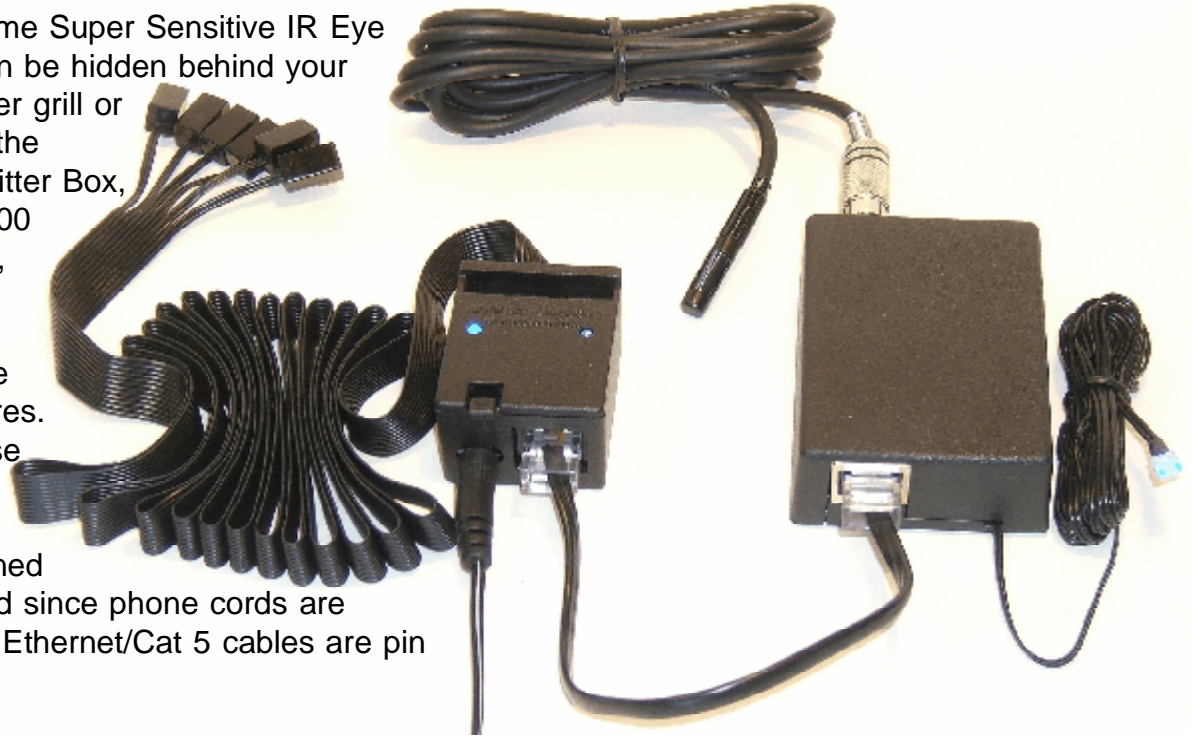
No ugly holes to Drill

Remote-to-Eye Distances up to 70 Feet! Eye-to-Emitter Distances Over 200 Feet

NEW! Hot Link XL

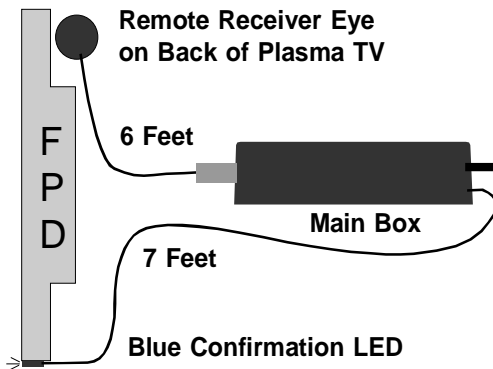
Extend eXtra-Long distances to your equipment closet via Cat-5 cable with RJ45 connectors!

Hot Link XL has the same Super Sensitive IR Eye as Hot Link Pro that can be hidden behind your plasma/LCD TV, speaker grill or cabinet door slot. With the Remote Power and Emitter Box, that can now be over 200 feet away from the Eye, Confirmation LED and Main Box using Cat-5 Ethernet cable or phone cable with at least 4 wires. Reverse polarity of these two types of cables is not a problem with the Hot Link XL. It is designed with pin reversal in mind since phone cords are opposite pin to pin and Ethernet/Cat 5 cables are pin for pin.



Use Ethernet Cable With RJ 45 Connectors For AV Gear 200+ Feet Away

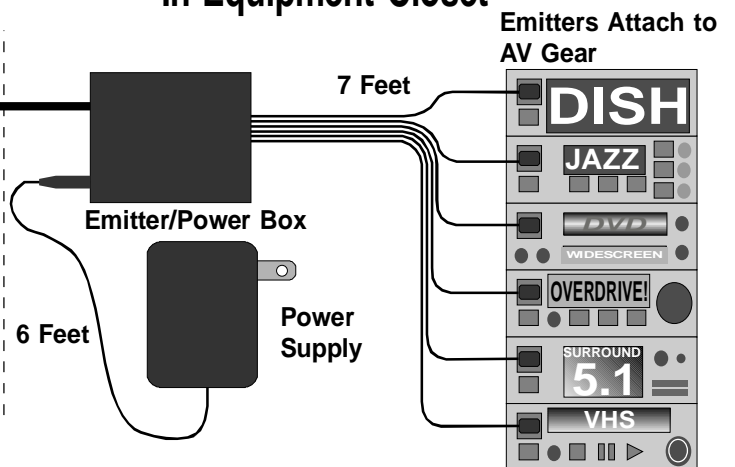
In TV Area



Add Cat-5 Cable Over 200 Ft.

Comes With 6 Inch Cable

In Equipment Closet

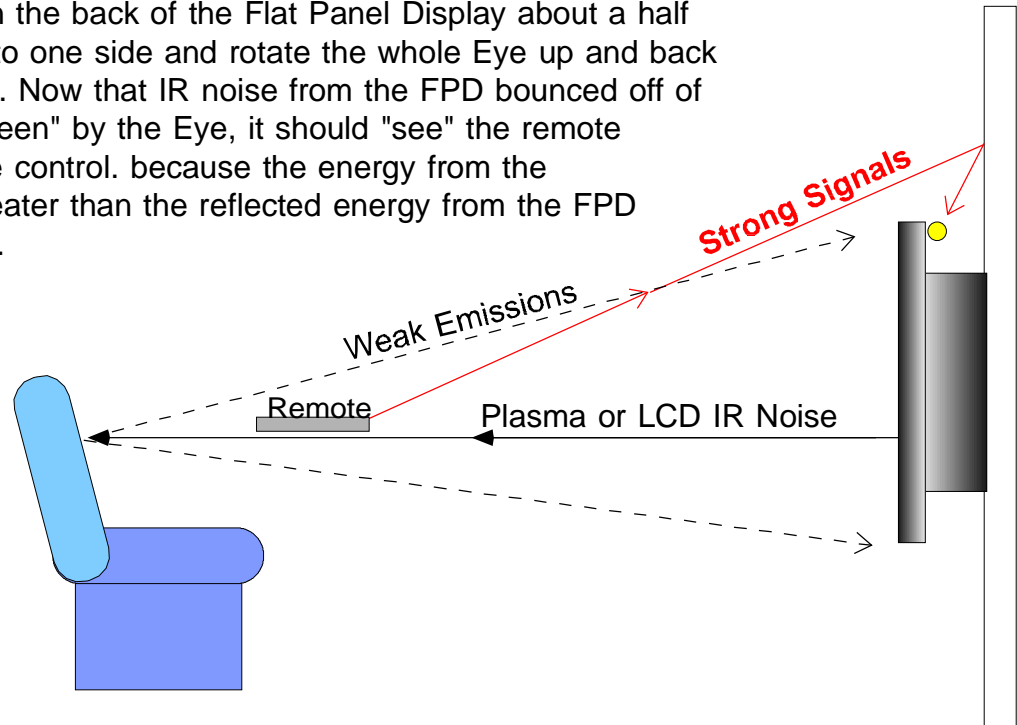


Main Box can be Velcro-mounted to the back of the Flat Panel Display with Eye and Blue Confirmation LED. Install Remote Box with Emitters and DC power entry in remote-located equipment closet. 2 Blue Status LEDs confirm fuse and proper wiring. Six more Emitters can be plugged in to either end of the Cat-5 cable using the Emitter Expansion Kit, for a total of 12 Emitters. Eye Extension cables can be RG6. Get great remote control performance and enhance the beauty of your home theater with Hot Link XL!

The Plasma Question:

Hot Link Pro WORKS WITH PLASMA TVs! Like all repeaters Hot Link Pro will "see" plasma and LCD TV Infrared spurious emissions. However when the Hot Link Pro IR Eye is mounted to the back of the set, it is shadowed from those signals and it can still "see" the remote signals. This method has been proven thousands of times over. Many installers that were trying to use "plasma proof or friendly" IR targets have changed over to Hot Links Hidden Eye approach. Many of these targets are frequency specific and require two targets for the different frequencies. The Only TV not overcome by this method is the Sharp Aquos 37 inch LCD TV. 60 inch Plasmas require a second Eye with Y Kit to regain sensitivity lost in this method.

Mount the Hot Link Eye on the back of the Flat Panel Display about a half inch from the edge. Stand to one side and rotate the whole Eye up and back until the blue LED shuts off. Now that IR noise from the FPD bounced off of the furniture is not being "seen" by the Eye, it should "see" the remote commands from the remote control. because the energy from the remote going forward is greater than the reflected energy from the FPD bounced off of the furniture.



Plasma and LCD Compatibility of Hot Link Pro:

Will Hot Link Pro work with Plasma and LCD monitors?
Yes.

Can Hot Link Pro be used to restore functionality of my remote controls that have been lost by interference caused by my Plasma or LCD monitor?
Yes.

Plasma and LCD monitors and TVs emit spurious Infrared, IR pulses across a large spectrum of frequencies and at light wavelengths that are the same as those used for remote control transmissions. These monitor types interfere with a wide band IR remote control repeaters. Hot Link Pro has a sensitivity from 18 Khz to 120 Khz with the peak covering 38 to 60 Khz. The hypersensitivity of Hot Link Pro allows the eye to be shadowed from these monitors and still receive the intended signals from remote controls. The Blue LED will glow if receiving noise when the remote is not in use.

By mounting the Hot Link Pro Eye on the back of the monitor, the spurious emissions are not seen by the Eye. However since the forward power of the remote control is greater than the emissions from these monitors reflected off of furniture, the IR Eye can still see and repeat the correct remote commands.

Procedure for mitigating spurious IR noise from Plasma and LCD monitors:

Mount Receiver Eye on the back of the monitor, top or bottom center. With the monitor on, rotate the Eye away from the reflected energy in the room toward the wall the monitor is mounted to until the blue indicator LED turns completely off. Even if the Eye is facing the wall the monitor is mounted to it will still see the remote commands.

Note: The Sharp Aquos LCD 37 inch is extremely IR noisy. It will require hiding the eye almost completely or covering most of it with black tape and using a high powered remote like the URC-2 or Theater Master. If this does not work, it may require using an RF repeater and using Hot Link Pro as an IR distribution source within the cabinet.

Procedure to mitigate spurious IR emissions from exposed equipment:

If the equipment is in the same room and has glass doors or no cabinet doors to block equipment from LCD or plasma emissions, use the above approach to mitigate spurious emissions, then place black tape over the Hot Link Pro Emitters and original receiving eyes of AV gear to prevent spurious emissions from entering the equipment through the original equipment eye.

Carrier Frequencies:

Hot Link Pro repeats everything from 18Khz to 120Khz. This means that the HDTV receivers and cable boxes that use 58Khz and 60Khz will work just as easily as all of the standard 38Khz and 40Khz AV gear. Hot Link Pro doubles the distance of IR computer mice and keyboards and PDA IR Remote Control Signals.



Hot Link Pro will *not* repeat only a handful of signals. Pioneer "Elite" receivers which use 1MHz, some high-end Kenwood receivers and Sony ES receivers with a 2-way remote and Sony CDX series automotive CD players that use 455Khz. It is not designed to transfer IRDA standard IR pulses for PDAs.

Hot Link Pro IR Distribution:

Hot Link Pro uses highly reliable stick on emitters to communicate remote commands to each piece of gear. These emitters are low powered so as not to feedback to Hot Link Pro's Receiver Eye. IR blaster type emitters do not work when equipment is on shelves that block the signal. While some IR repeaters with blaster emitters seem "easy to install" they actually can create more problems in getting the IR signal to equipment. Sometimes high-powered emitters overdrive the IR sensor on original equipment or work only when the cabinet doors are closed or only when open if mounted externally.



Expanding the Hot Link Pro:

The Eye may be extended with high-grade coax cable and the emitters may be extended over 100 feet with just 2 wires with our Emitter Extension Kit. The Coax Eye Extension Cable can be made in custom lengths up to 25 feet. Standard AV cables are not shielded well enough for the Eye. Extensions can be made from RG6 or RG59 with F connectors and adapters to RCA purchased from a local electronics retailer. Adding Coax cable to the Eye does reduce the distance from the remote to the eye. A 25 foot length brings the remote to eye distance to about 28 feet.



Mini Coax Eye Extension Cable



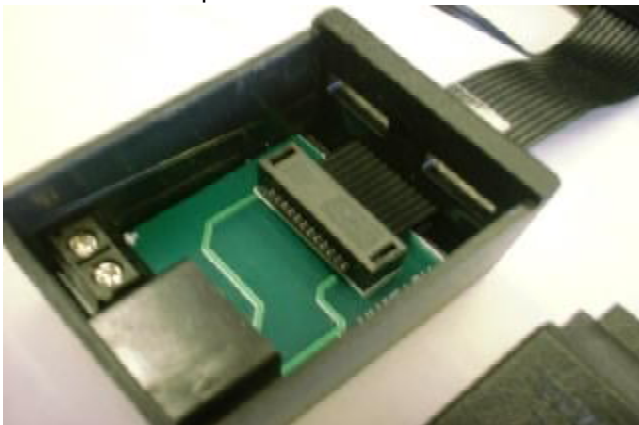
Emitter Extension Kit

The best way to extend Hot Link Pro particularly over great distances is with the Emitter Extension Kit. This Kit splices into the emitter cable just a few inches from the main Hot Link Pro Box and adapts all 12 wires to just 2 screw terminal connections or an RJ45 connector that uses the 2 wires in the center of the connector.

With the addition of the Emitter Extension Kit you may then add the **Emitter expansion Kit X6** that adds 6 more emitters to the Hot Link Pro via an RG45 Y connector. With these two kits you may now have 6 emitters near and six at the far end of the extension or 12 emitters near or 12 emitters at the far end of the extension. You can even wire it to have the Hot Link Pro Eye and body in one location and the 2 sets of six emitters in two separate locations.

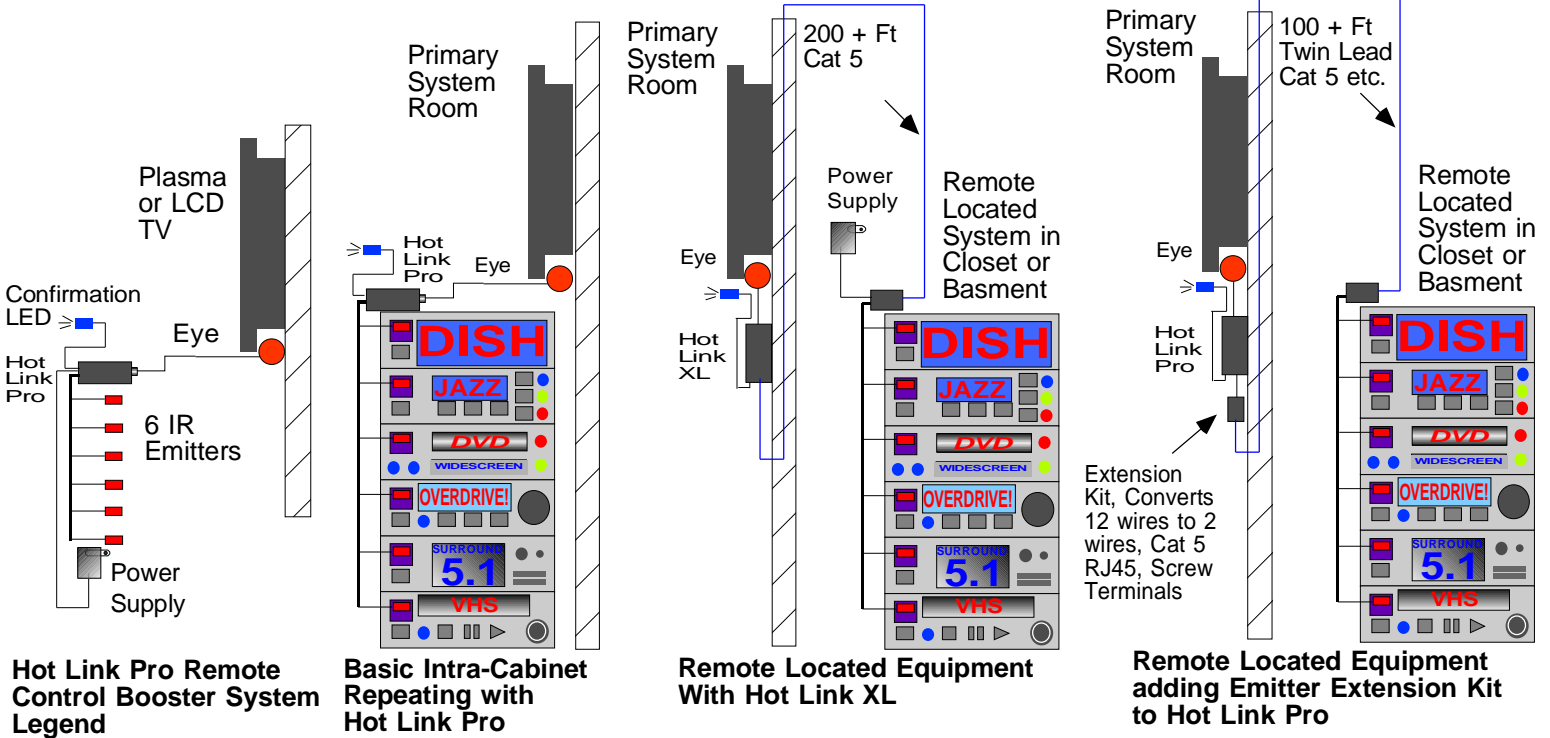


Emitter Expansion Kit X6 adds 6 Emitters at either end of the Extension Kit



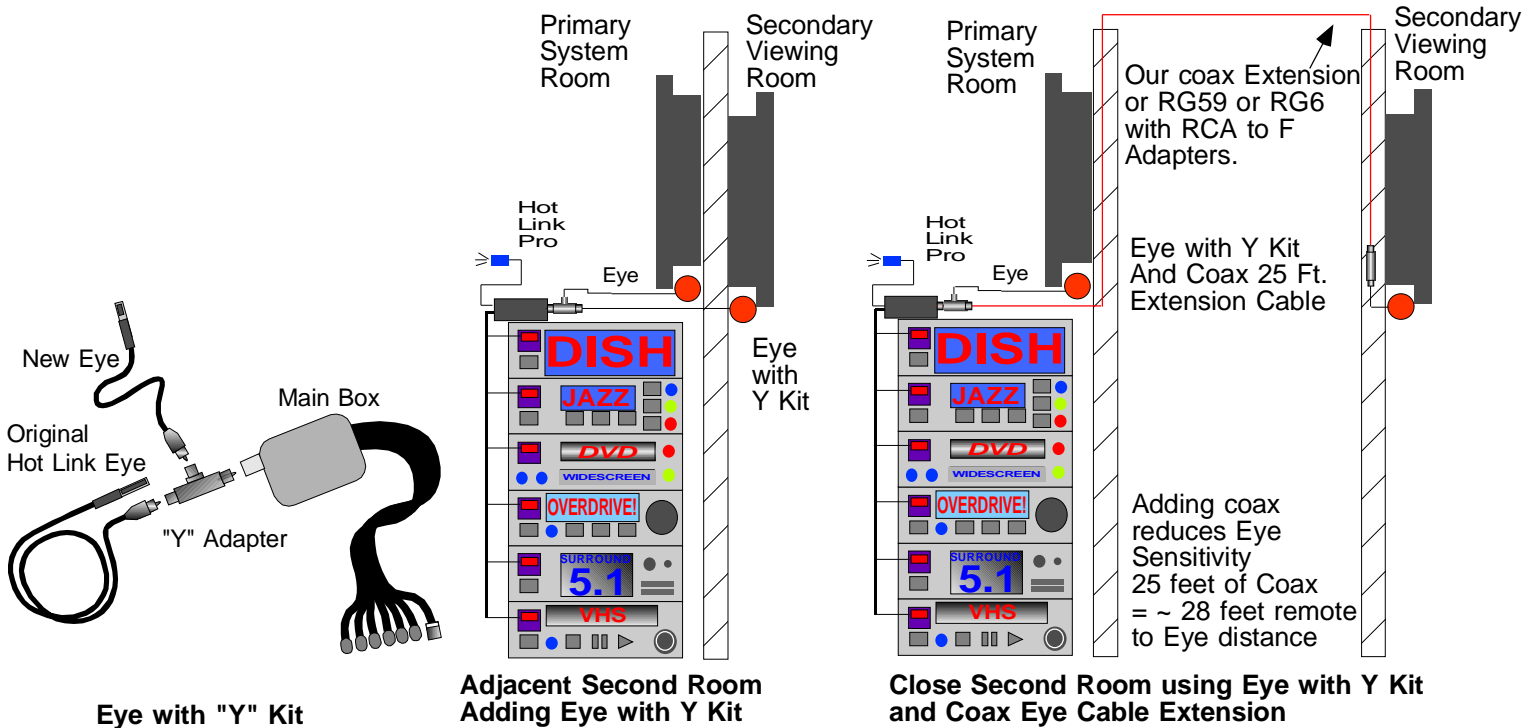
Application and Installations, Wiring Diagrams:

Hot Link Pro has a Receiver Eye, 6 or 12 emitters depending on model, 1 blue Confirmation LED that can be used to detect noise signals as well as remote commands, a Main Amplifier Box and a wall plug-in Power Supply, (not shown for clarity).



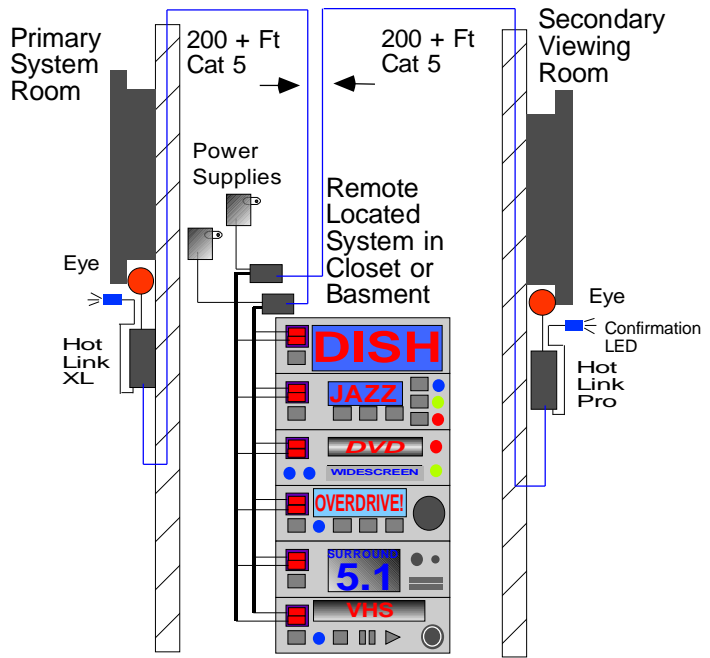
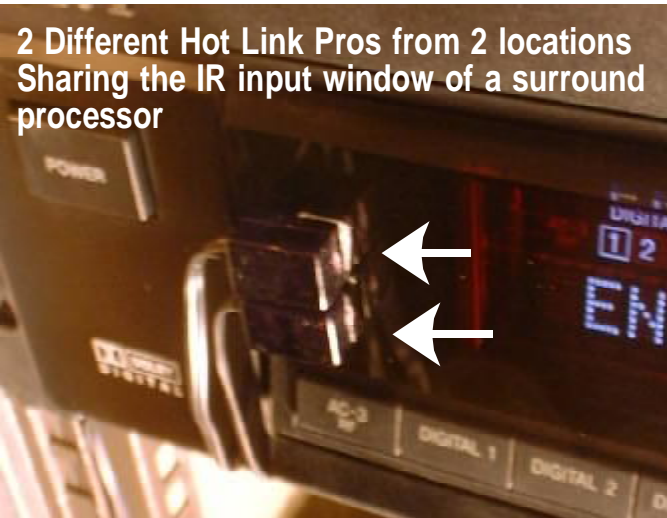
Adding an Eye location:

The Eye with Y Kit allows you to have two inputs for Hot Link Pro from 2 rooms. Perhaps you have 2 rooms that are adjacent. Just use one Eye in each room with one coax cable traveling through to the next room. The second Eye can also be used to receive IR Signals from another IR output device like a whole house controller.



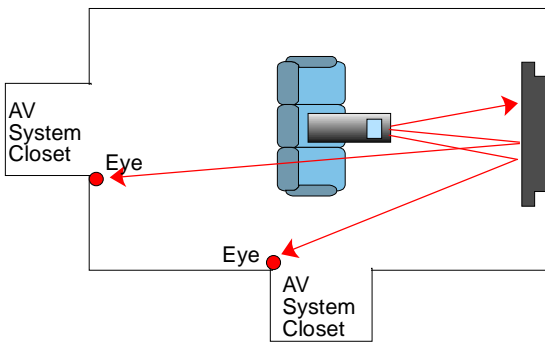
If your secondary Location is not adjacent but is within 25 feet simply add a Mini Coax Eye Extension Cable with an Eye with Y Kit to place a secondary Receiver Eye in a location within 28 feet of the Hot Link Pro. Using Coax Cables will reduce the sensitivity of the remote-to-eye distance to about 28 feet.

Operating from 2 or three entertainment areas to a remote equipment area? Use a Hot Link XL in each entertainment area with Category 5 cable wire run to the equipment rack and place the emitters side by side on each piece of gear. One emitter from each of the input zones on the original equipment IR sensors.

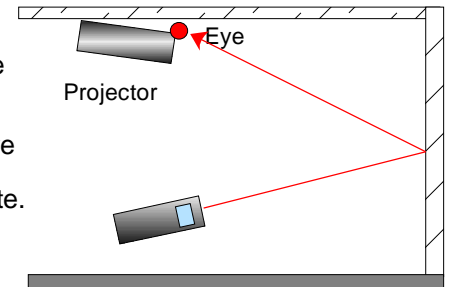


Primary and Secondary Rooms with Remote Located Equipment Using 2 Hot Link XLs

Hot Link Pro Can be installed without any extensions in applications where the Eye can see the room the remote is in. Placing the Hot Link Pro Eye with the equipment rack in the back or side of a room will most likely work even when the remote is aimed forward at the screen.



Hot Link Pro is used to enhance remote performance for church and auditorium video projection systems. Whether extensions are used or just being able enjoy greater freedom using the remote.



Hot Link Pro has a big brother, the Hot Link Pro X12 with 12 emitters on 8-foot wires.



Hot Tub Hot Link is used to conceal AV gear in boats, RVs cars, planes, pool houses, hot tubs and cabanas. It repeats for one device, runs on 12 volts DC, and is sun and chlorine proof. It is bezel mounted with a seal. Remote-to-eye distance is 15 feet. Can be used to keep equipment safe from weather and water.



Get Turbo Charged Remote Control Performance and enjoy the beauty of your Home Theater with

Hot Link Pro!
Remote Control Booster Systems

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S. Lewis,
I can't say enough good about this product. It just works! It does exactly what it's supposed to. No tweaking, no fiddling, no hassle. Very nicely designed, great reception, no setup hassles, just an all around A+. I wish more products worked as well, and as simply as Hot Link Pro. If you're debating about the value @ 80-100 bucks, I can tell you that in my mind, it is with out question worth every penny to have everything tucked away behind closed doors. Love it, love it love it!
By the way, this is the first really positive review I've written because I'm extremely picky about my products.

Sam:
I appreciate your information and service. I received the Hot-link Pro from Smarthome yesterday and quickly installed it. It is very easy and convenient install and well constructed item. I am very impressed with the performance of the hot-link pro no matter where the IR emitter on my Pronto TSU6000 is pointing, the Hot-link receives the signal and acknowledges in a flash. I was previously using the RF repeater that is optional with the Phillips Pronto TSU6000 and had mixed results with it. Reception was sketchy and there was a noticeable lag-time in response of the controlled component. The hot-link allowed me to turn off yet another piece of equipment that generates RF interference and get awesome performance.

Dave:
I am so pleased with my Hot-Link Pro. It is really such a clever device and, gosh, how it keeps our living room tidy!! All in all an OUTSTANDING product. Thanks for the nice work...

Giles:
I don't usually feel the need to do this, but your product is great. It does exactly what it says on the box, and is so easy to set up. I had it installed and working with my new AV cabinet in minutes, controlling a VCR, DVD recorder, satellite decoder and an AV amp, plus also working my new plasma TV, as the IR receiver on it is now behind my centre speaker. All I had to do was play around with the positioning of the IR receiver so as not to get flooded by signals from the plasma TV (the little led showing received signals made this really easy - just kept moving it until I didn't get a blue light anymore) and I was away. I will certainly be recommending you the Hot-Link Pro kit to anyone who asks - and a few friends have already wondered where all my audio-visual gear has gone. Thanks!

Benji Mo:
The blaster that I use AND LOVE is the Hot Link Pro made by Microsmith.

Bill:
Just for the record, you folks should be very proud of your products. The Hot Link has been installed and working flawlessly for almost 4 years. It has lived through two deinstall/reinstalls, at least four cabinet reconfigurations as I added and replaced equipment, and a lunatic cat named Studley who tries to "kill" the report LED every time it flashes! It's a great product, which I have recommended to friends over and over. Thanks,

Mark:
The System works perfectly! You have a great product! The Hot Link Pro works great even around the corner and down the hall. Thanks for your help!

Lowwell;
I purchased Hot-Link Pro over a year ago and it continues to work flawlessly. I have recommended it to a number of friends that have purchased units.

Ross;
No more agony controlling the projector!

Ulysses:
I just wanted to tell you that it was good doing business with a company that provided what it promised. The product was very easy to install and we love not having to hunt for the "spot" to control the equipment!

Joe:
Marcus, It is a pleasant surprise to order an item like Hot Link Pro, follow the instructions for installation, then find it works so well. Thank you for a well-designed and user-friendly product that works as advertised ! I installed the "eye" right above the top door trim leading into the equipment closet by drilling a small diameter hole through the sheetrock and door header. Then passing the sensor through the hole. Since it is the same length as the trim is thick, it is almost invisible.

Scott:
I was in your situation a few months ago. I was building my own cabinetry for my gear and wanted to hide my equipment behind wooden doors. I went with the Hot Link Pro as suggested by MikeSRC. I couldn't be happier with the outcome. The Hot Link Pro sensor is very sensitive. My system responds much better to off-angle pointing of my remote control than it did before I installed the HL Pro. I have experienced no "false triggering" events either.

Lowpro:
I would seriously invest in a product like the one below.

Hot Link Pro:
I have been using this product since day one with my Pronto and the changers. IR responsiveness is incredible. Even if my equipment was not in another room I would still go with a solution like this. (My equipment closet is directly behind the wall my projector screen hangs on in another room.) I don't have one delay action in my entire .pcf file. Delays are just not needed as my macros execute perfectly every time. Even the channel macros for my Samsung SIR-TS160 perform without a hitch. My Samsung unit has always had very sluggish IR responsiveness, but stopped giving me problems after I integrated the Hot Link Pro into my setup. Good stuff!

Continued comment;
The IR sensor the Hot Link Pro uses is extremely sensitive. As long as you are not pointing the remote in the complete opposite direction you'll be amazed. I don't have to worry at all with what angle I hold the Pronto remote. I rarely even hold the remote now when using it. Just set it down beside me wherever I happen to be sitting and work it from there. :-)