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Subject: Wireless control?

Posted by [mattcelt](#) on Tue, 01 Feb 2011 08:23:14 GMT

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Hey y'all, long time no see... I finally got my PARIS system back up and running (after almost 2 years, yikes!), so I'm back in the mix, so to speak.

My new setup includes a beautiful professional isolation booth I inherited from the previous tenant at my apartment. (Talk about luck...) I set up a new system (Dell Inspiron 530 Desktop, works like a charm) to do the recording, but since I'm wearing both the engineer and musician hats, I decided to put my console inside the booth. So the CPU, MEC, etc. are external, and I have the monitor (with a VGA->cat5 adapter), Control 16, and wireless keyboard and mouse inside.

I had to disassemble the vent duct to run the cables for the monitor and C16, and it limits the placement of the components (internally and externally) due to the length of the wires. I'd really like to move them to a more out-of-the-way place, but I haven't found a solution yet.

Which is where (I hope) you guys come in. I think I've found a decent wireless monitor extension system, which will solve the display problem:

[http://shop.rotronic.co.uk/shop/artikeldetail/index.html?Artikel-Nr=14.01.3404&t\\_Action=searchKatalogDown&t\\_SearchValue=&t\\_Sort=&t\\_Hier=&t\\_CatID=2777&t\\_ParentID=2713](http://shop.rotronic.co.uk/shop/artikeldetail/index.html?Artikel-Nr=14.01.3404&t_Action=searchKatalogDown&t_SearchValue=&t_Sort=&t_Hier=&t_CatID=2777&t_ParentID=2713)

...but I don't have a solution for the C16. Has anyone done a protocol analysis on the EDS<->C16 traffic, or is there a device that can translate cat5 voltages to a wireless signal and back in a protocol-agnostic way? Has anyone looked into the possibility of making their setup completely wireless?

Thanks in advance for your advice!  
mattcelt

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Subject: Re: Wireless control?

Posted by [drfrankencopter](#) on Tue, 01 Feb 2011 13:42:02 GMT

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The C16 cable is just a regular Ethernet cable (do not use a crossover)...why not just use a longer cable?

If you only need wireless control occasionally, (say while tracking yourself), you could use something like a laptop, or iPad running a VNC client, while your Paris machine runs the host. It should work quite nicely.

Cheers

Kris

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Subject: Re: Wireless control?  
Posted by [dnafe](#) on Tue, 01 Feb 2011 21:51:48 GMT  
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Beat me to it...works like a charm too

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Subject: Re: Wireless control?  
Posted by [mattcelt](#) on Thu, 10 Mar 2011 05:13:26 GMT  
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That's a great solution, and I would absolutely do that. The problem is that I only ever track myself... my PARIS setup is just for three people - me, myself, and I.

I am using a 50' cat5 cable at the moment, but 15' of that is eaten up just routing the cable through the vents of the isolation booth, and since the booth is essentially in the kitchen, the cables also run through a high-traffic area (with a high density of cable-eating cats). So it's not an ideal setup, and really limits where I can put the CPU.

I did find a solution for every other cable in the studio:  
<http://www.amazon.co.uk/DYNADOCK-W20-WIRELESS-USB-PUERTOS/>  
It isn't available in the US yet for some reason, so I had to buy it in the UK, but it works a treat. So the only cable tying my console to the CPU now is the C16.

I found this project in my travels, where another guy named Matt is reverse engineering a C16:  
<http://www.electricrock.co.nz/blog/2009/08/ensoniq-control-1-6-undressed/>  
<http://www.electricrock.co.nz/blog/2009/09/ensoniq-control-1-6-rj-45-connector-pinout/>

He's determined that the C16 uses an RS-422 serial protocol, so I'm looking into wireless-serial solutions, but I'm not sure an after-market device will deliver the power the C16 needs to function. So the search continues.

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Subject: Re: Wireless control?  
Posted by [Doug Wellington](#) on Thu, 10 Mar 2011 18:06:04 GMT  
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Cool links...

I've been using the TI EZ430 wireless stuff myself. Fun thing is that TI already did the work of creating the hardware on the computer side (it's a USB dongle), so I only had to make the interface and power supply for the C-16...

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Subject: Re: Wireless control?  
Posted by [mattcelt](#) on Sat, 04 Aug 2012 05:28:48 GMT

Hey Doug, somehow in the process of dropping off the face of the earth for the past year and change, I missed your reply.

Do you think you could make one for me? How much would you charge for it? I don't think I have the EE knowledge necessary to do it myself.

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