

Re: Universal IR remote controller

Source: <http://sci.tech-archive.net/Archive/sci.electronics.design/2005-05/msg04155.html>

- *From:* "Don Baker" <n2mcg@xxxxxxxxxxx>
 - *Date:* Sat, 28 May 2005 10:14:21 -0400
-

I bought an RCA RCU807 unit from overstock.com. This unit has a learn mode that copies command from an existing remote and cost \$25. Hope that helps. The high end product is the sunwave unit. It has not only learn and macro (combined commands for multiple devices) but is PC programmable. Check it out at <http://www.remotecentral.com>

--Don--

<Mebart> wrote in message news:nasg915fr9tfl9epb44a8ivts81qsachf@xxxxxxxxxxx

- > I confess I started reading this thread because of our own need for a
- > universal remote control. We have (so far) purchased 3 'all in one'
- > remotes to replace the aging units that came with the tv and vcr. Each
- > one works fine...except that some functions are missing and there are
- > flaws in each design. They all change channels, do basic recording
- > etc, but try to set up a timed record event and there is no key to get
- > into the vcr's set up. So, they are almost useless, for lack of 1 or 2
- > features that seem to be 'left out'.
- >
- > I had wondered if they still made a remote that would read codes from
- > the existing stock remote unit. I know they did this in the early
- > days, but lately there was no need because non-volatile ram and
- > EEPROM's could hold data for hundreds of different home entertainment
- > devices.
- >
- > Lately, there are new models coming out and the manufacturers can't
- > keep up.....so, there seems to be a resurgence in the
- > manufacture of 'learning' remotes.
- >
- > I looked on ebay and there are many models that advertise that they
- > 'learn' the code from the actual remote control to be cloned. A few
- > sport backlit screens and USB connectors so they can be updated over
- > the internet! I checked out a few of these in detail, and found that
- > they all rely on the basic codes stored in eprom and you have to
- > select what code you need for your particular device. When you run
- > into a function that you can't use for whatever reason, you have extra
- > buttons that can be customized (based on the output of the original
- > remote).
- >

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> I was not clear whether you could roll your own completely from
> scratch, or whether you had to start from the basic codes stored in
> the remotes eeprom.
>
> But, clearly....this is the wave of the future. We intend to purchase
> one of these units soon.
>
> While this can't help the original ops question regarding how to
> design one....perhaps he could purchase one and dissect it to get a
> starting place and go forward from there with his own design.
>
> Regards,
>
> M
>
> On Fri, 27 May 2005 14:33:10 +0200, "Thomas W" <thomas_w@xxxxx> wrote:
>
>>Hi All,
>>I need to design an universal IR remote controller for my university
>>project. It should work with most of the devices available on market and
>>learn the codes from the original remotes. I did pretty much research on
>>the
>>Web but didn't find all I need. I wonder especially how the device will
>>be
>>able to store the signal codes, if coding differ depending on producer?
>>Any ideas? Maybe someone's done a similar project and will be willing to
>>share his knowledge? I'm pretty desperate since I have to finish the
>>project
>>for Monday.
>>
>>Thanks in advance,
>>Thomas W.
>>
>

• **References:**

◆ **Universal IR remote controller**

◇ From: Thomas W

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