

Re: axis 2100 cam refuses to work on 12v DC

Source: <http://sci.tech--archive.net/Archive/sci.electronics.design/2007-03/msg06640.html>

- *From:* "Michael A. Terrell" <mike.terrell@xxxxxxxxxxxxxx>
 - *Date:* Sun, 25 Mar 2007 05:45:07 GMT
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mpm wrote:

On Mar 23, 9:32i½pm, "Michael A. Terrell" <mike.terr...@xxxxxxxxxxxxxx>
wrote:

Wrong. A lot of those AC powered cameras have an internal power transformer and use a 12 VAC input to allow them to be classed as a "Low Voltage Device" which does not require the wiring to be installed by an electrician.

Mike,

Are you referring to NEC Code here?

Because wouldn't 12vdc ALSO be considered a low voltage device??

I don't have the codebook in front of me, but I thought the cutoff was 50volts (DC or AC, makes no difference??)

I would think it more likely they're just saving costs.

A typical DC wall wart cost more than a similar power AC style.

By many dollars in most cases.

-mpm

You don't get as much isolation for multiple cameras with a common DC source, but a number of cameras can run from the same AC source with no ground loops. Yes, a super cheap camera that is not made for multiple camera installations can get away with a really crappy wall wart, but some of the security cameras are still made for AC operation, to replace failing vidicon cameras without rewiring. If the camera calls for AC, that's what it needs.

Low voltage is typically in the 24 volt, or less range for AC. it is also referred to as "Class 2" wiring. Sound systems with 25 volt line output are just barely "Class 2".

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Service to my country? Been there, Done that, and I've got my DD214 to prove it.

Member of DAV #85.

Michael A. Terrell
Central Florida

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