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UFO UpDates Mailing List

Re: 'Rods'?

From: **Mark Cashman** <mcashman@ix.netcom.com>
Date: Tue, 16 Sep 1997 01:41:58 -0700
Fwd Date: Tue, 16 Sep 1997 08:52:17 -0400
Subject: Re: 'Rods'?

> From: UFO UpDates - Toronto <updates@globalserve.net>, on 9/15/97 10:50 PM:
> From: Michael Curta <UFOMedic@net1comm.com>
> To: "'UFO UpDates - Toronto'" <updates@globalserve.net>,
> Subject: RE: UFO UpDate: Re: 'Rods'?
> Date: Mon, 15 Sep 1997 15:10:03 -0600

> >Date: Sun, 14 Sep 1997 10:24:14 -0400
> >From: BOB SHELL <76750.2717@compuserve.com>
> >Subject: UFO UpDate: Re: 'Rods'?
> >To: UFO UpDates - Toronto <updates@globalserve.net>

> >>To: UFO UpDates - Toronto <updates@globalserve.net>
> >>From: Mark Cashman <mcashman@ix.netcom.com>
> >>Subject: re: UFO UpDate: 'Rods'?
> >>Date: Sat, 13 Sep 1997 13:20:23 -0700

> >Mark,

> >I think you are right. The stills and videos I've seen so
> >far of these "rods" lead me to believe that we should be
> >calling them bugs instead of rods.

> >Bob

> Hi Bob,

> I think you need to look again! If you go to the web site you can clearly
> see the difference between BUGS and RODS. Where have you ever seen a bug
> several feet long or longer?

> Michael

Michael -

First, tell me how you know how long they are. A single photo cannot tell that without a shadow cast on an object of known size at a known distance with a known sun elevation and azimuth, or without triangulation.

Second, think about what happens when a shutter is open if an insect whips by crossing most of the angular extent of the film in the time the shutter is open: it is both blurred and extended in appearance. The wings will create a sine wave shape that is semi-transparent as opposed to the more solid appearance of the body. If the insect is close enough, it will be further blurred, because the camera lens is focused beyond it. The sine wave of the wing will have a period based on the time the shutter is open, the frequency of wing motion, and any wing pitch changes used by the insect for attitude correction.

Some simple calculations can be used to determine how close the insect has to be in order to cover a specific area on the film.

For instance, an insect a little over a half inch long at a distance of a third of an inch will cover 10 degrees of the field of view. Of course, the same insect can be smaller, so long as it travels 10 degrees in the 60th of a second the shutter is open, and its image will still cover 10 degrees of view. Or, the insect can be the same size but more distant.

Thus - rods...

Mark Cashman, creator of the Temporal Doorway at
<http://www.geocities.com/~mcashman>
[http://www.infohaus.com/access/by-seller/The Temporal Doorway Storefront](http://www.infohaus.com/access/by-seller/The_Temporal_Doorway_Storefront)
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