

**Analysis of “Orb” photographs  
From multiple Sony HD Cameras  
With Nikon D70 reference images**

The "Orbs" that were being recorded  
are of different shapes and sizes



The Circular type



The Half circular type



The Diamond type

We had to determine why 2 of the same type of  
cameras would produce different size,  
shape & textured "orbs"

By using 2 Sony HD Cameras  
we determined that when any of the cameras  
flash did not fire, the "Orbs" were not present.



All images were taken with the Sony HD camera and  
no flash.

These images were taken at the same time  
They show that the "Orbs" are not in the same  
position depending on the camera.

The Nikon Had the flash mounted on a  
bracket that places it several inches from the lens



Sony HD with flash  
but no "Orbs"



Sony HD with Flash  
Lots of "Orbs"



Nikon D-70 with Flash  
but no "Orbs"

These two images were taken at the same time  
1-with the Sony HD camera  
1-with the Nikon D-70 and a flash bracket



Sony HD camera with flash  
Several "Orbs" present



Nikon D-70 with flash  
& flash bracket  
No "Orbs"

Another comparison between the Nikon D-70 with a flash bracket & the Sony HD camera.



The Nikon D-70 with flash  
and a flash bracket  
no "Orbs" present



The Sony HD camera  
with flash  
Multiple "Orbs" present

These two images were taken at the same time by the 2 Sony HD cameras, however the "Orbs" in the images are not in the same locations



Notice the reflection in the mirror in the background causing more light to cause reflections

## Conclusion:

The Sony HD camera as well as most point and shoot cameras has the flash mounted near the lens.

In the case of the Sony HD the lens is mounted in the lens fitting. Also because the Sony HD camera is designed as a video camera, the lens shape and lens hood shape are adding to the creation of odd shaped "Orbs"





The front of the camera shows the rounded corners of the lens hood as well as the rounded edges of the lens itself. You can also see the Flash is mounted just on top of the lens.



Depending on the proximity to the lens and the relationship to center of the image, the "Orbs" will take on the shape of the rounded edges of the lens hood & lens.

The close to the center the more likely the "Orb" will be more circular.



After consulting with Sony we discovered that the Iris/Diaphragm inside the lens is Diamond shaped. This will cause "Orbs" that are more diamond shaped depending on the depth of focus in the image. Sony reports that they have several cameras that have this issue.



## Whats My "Orb"?

There is always a certain amount of dust floating around in the air. You may have noticed this at the movies when you look up at the light coming from the movie projector and notice the bright sparks floating around in the beam.

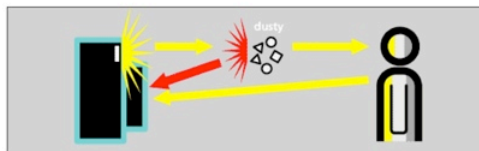
In the same way, there are always dust particles floating around nearby when you take pictures with your camera.

When you use the flash, the light from the flash reflects off the dust particles and is sometimes captured in your shot.

Of course, dust particles very close to the camera are blurred since they are not in focus, but because they reflect the light more strongly than the more distant main subject of the shot, that reflected light can sometimes be captured by the camera and recorded on the resulting image as round white spots. So these dots are the blurred images of dust particles.

You can reproduce this problem relatively easily by taking a picture right after you put away goods that create a lot of dust, such as feather bedding.

In actual photography, this problem frequently arises in shots taken at construction sites, etc. It may also occur when it is raining or snowing. Compact cameras in which the flash and the lens are close together are particularly susceptible to this problem.



Due to the images that we have seen, we believe that the "Orbs" in question are caused by particulate in the air. This does not mean that there is no paranormal activity, the other reported activity points to possible paranormal activity however the images are nothing but normal photographic problems.

What follows is a good standard explanation of "Orbs" and what they are caused by.