

INVISIBLE PLANE

EXPLAINED

1
00:00:06,470 --> 00:00:03,200
hi i'm mike west of medipartner org this

2
00:00:09,020 --> 00:00:06,480
is some old footage of a supposed UFO

3
00:00:11,470 --> 00:00:09,030
that's recently resurfaced and it was

4
00:00:15,289 --> 00:00:11,480
new to me and so I took a look at it and

5
00:00:17,450 --> 00:00:15,299
it gives me that these appear to be in

6
00:00:20,450 --> 00:00:17,460
configuration of a triangle which kind

7
00:00:22,849 --> 00:00:20,460
of looks like a regular planes landing

8
00:00:25,429 --> 00:00:22,859
lights moving across the sky so I said

9
00:00:27,259 --> 00:00:25,439
this on the Facebook group where I saw

10
00:00:29,950 --> 00:00:27,269
this and people said that you know if

11
00:00:32,600 --> 00:00:29,960
it's a plane why doesn't the plane body

12
00:00:35,150 --> 00:00:32,610
obscure the stars that are behind it

13
00:00:39,020 --> 00:00:35,160

she's a reasonable explanation a

14

00:00:43,310 --> 00:00:39,030

reasonable objection now interestingly I

15

00:00:47,049 --> 00:00:43,320

then found that the video was very old

16

00:00:50,690 --> 00:00:47,059

and it was actually comes from ABC in

17

00:00:54,020 --> 00:00:50,700

1996 and I got to show you the actual

18

00:00:56,119 --> 00:00:54,030

video from the time we had hoped to be

19

00:00:57,619 --> 00:00:56,129

able to explain it to you but in some

20

00:01:00,560 --> 00:00:57,629

respects it's all the more wonderful

21

00:01:04,340 --> 00:01:00,570

that we can't here's a science

22

00:01:05,750 --> 00:01:04,350

correspondent Michael Gillan the

23

00:01:07,730 --> 00:01:05,760

sighting you're about to see was

24

00:01:10,280 --> 00:01:07,740

recorded by a powerful Air Force

25

00:01:12,440 --> 00:01:10,290

telescope high on a mountaintop on the

26

00:01:14,929 --> 00:01:12,450

island of Maui when suddenly these

27

00:01:17,450 --> 00:01:14,939

bright objects appeared the Air Force

28

00:01:19,550 --> 00:01:17,460

declined to comment officially but a key

29

00:01:21,560 --> 00:01:19,560

officer involved in the sighting says

30

00:01:23,960 --> 00:01:21,570

these are probably nothing more than

31

00:01:27,440 --> 00:01:23,970

airplane lights could this be an

32

00:01:29,600 --> 00:01:27,450

airplane it seems unlikely dr. Robert

33

00:01:31,780 --> 00:01:29,610

Nathan of NASA's Jet Propulsion lab is

34

00:01:34,940 --> 00:01:31,790

the father of digital image processing

35

00:01:37,580 --> 00:01:34,950

with a skeptical attitude towards UFOs

36

00:01:39,319 --> 00:01:37,590

if it were an airplane I think that we

37

00:01:42,350 --> 00:01:39,329

would see as it lived across the screen

38

00:01:45,200 --> 00:01:42,360

that the body of the airplane in front

39

00:01:49,190 --> 00:01:45,210

would obstruct the stars as it moved and

40

00:01:49,719 --> 00:01:49,200

as we examined that thing the image it

41

00:01:52,420 --> 00:01:49,729

didn't

42

00:01:54,550 --> 00:01:52,430

have that effect even back then even

43

00:01:57,730 --> 00:01:54,560

back then they were giving the exact

44

00:01:59,709 --> 00:01:57,740

same objection that you know if it was a

45

00:02:03,219 --> 00:01:59,719

plane why isn't it obscuring the Stars

46

00:02:06,340 --> 00:02:03,229

and so I thought about this and I think

47

00:02:07,569 --> 00:02:06,350

the reason is that the lights are

48

00:02:10,559 --> 00:02:07,579

essentially being blurred at the

49

00:02:12,970 --> 00:02:10,569

telescope that they used a video this is

50

00:02:15,430 --> 00:02:12,980

aiming at the stars so except this kind

51
00:02:17,110 --> 00:02:15,440
of long exposure whether they use the

52
00:02:20,289 --> 00:02:17,120
persistence of the image from frame to

53
00:02:22,360 --> 00:02:20,299
frame to build up the image of the stars

54
00:02:24,970 --> 00:02:22,370
over a few frames so you can actually

55
00:02:27,580 --> 00:02:24,980
see better and that's how in the effect

56
00:02:31,150 --> 00:02:27,590
that it's blurring out these trails of

57
00:02:33,789 --> 00:02:31,160
the the light and it's also making the

58
00:02:37,120 --> 00:02:33,799
Stars not disappear so much when the

59
00:02:39,190 --> 00:02:37,130
plane goes over them also the there's a

60
00:02:41,890 --> 00:02:39,200
lot of wobbling around in this image and

61
00:02:43,360 --> 00:02:41,900
there's all this distortion here from

62
00:02:46,449 --> 00:02:43,370
the the lights

63
00:02:47,949 --> 00:02:46,459

that's is streaking across and so it

64

00:02:49,500 --> 00:02:47,959

makes it very hard to see if things are

65

00:02:54,210 --> 00:02:49,510

actually distorting but what's actually

66

00:02:57,069 --> 00:02:54,220

going on I did a little mock-up here in

67

00:03:00,340 --> 00:02:57,079

Photoshop of what you might expect is a

68

00:03:01,920 --> 00:03:00,350

plane moving across the sky you can see

69

00:03:05,740 --> 00:03:01,930

the black silhouette of the plane

70

00:03:07,660 --> 00:03:05,750

obscuring the sky behind it I just put a

71

00:03:10,960 --> 00:03:07,670

gray background in let me remove that

72

00:03:13,150 --> 00:03:10,970

and so here is the plane moving across

73

00:03:14,590 --> 00:03:13,160

the sky now you can see it's actually

74

00:03:16,240 --> 00:03:14,600

quite hard to see the silhouette of the

75

00:03:19,660 --> 00:03:16,250

plane even though the silhouette is

76
00:03:22,479 --> 00:03:19,670
actually there however you can actually

77
00:03:24,729 --> 00:03:22,489
see it obscure the stars as it goes by

78
00:03:27,460 --> 00:03:24,739
now this is because we have this is like

79
00:03:30,190 --> 00:03:27,470
a proper video where every every single

80
00:03:31,830 --> 00:03:30,200
shot is perfectly in focus and yeah

81
00:03:35,670 --> 00:03:31,840
things don't assist from frame to frame

82
00:03:38,140 --> 00:03:35,680
so why does I rendered out this video of

83
00:03:43,569 --> 00:03:38,150
this plane moving across the star field

84
00:03:47,809 --> 00:03:43,579
and I took it into Adobe After Effects

85
00:03:55,729 --> 00:03:47,819
and I have the same video here

86
00:03:57,289 --> 00:03:55,739
and I added this effect to it the echo

87
00:03:59,660 --> 00:03:57,299
effect which we have over here

88
00:04:02,929 --> 00:03:59,670

configured over here and when I play

89

00:04:06,559 --> 00:04:02,939

this now it's creating these trails by

90

00:04:09,410 --> 00:04:06,569

essentially persisting the image for say

91

00:04:10,910 --> 00:04:09,420

10 frames I think we have here so the

92

00:04:13,160 --> 00:04:10,920

stars persist because they don't move so

93

00:04:15,440 --> 00:04:13,170

you don't you know see any change other

94

00:04:16,819 --> 00:04:15,450

than the background getting a bit grayer

95

00:04:18,229 --> 00:04:16,829

and brighter which is something you

96

00:04:20,900 --> 00:04:18,239

actually see in the video you get this

97

00:04:24,409 --> 00:04:20,910

grey sky rather than a black sky that

98

00:04:27,650 --> 00:04:24,419

you would expect and the trails actually

99

00:04:32,589 --> 00:04:27,660

are extended like this now if we zoom in

100

00:04:34,610 --> 00:04:32,599

so there so you can see it's not really

101
00:04:36,560 --> 00:04:34,620
extinguishing the stars with the body of

102
00:04:39,740 --> 00:04:36,570
the play and you see a little like if

103
00:04:42,740 --> 00:04:39,750
you look at this star here you will see

104
00:04:45,710 --> 00:04:42,750
a little dimming as it goes by but it's

105
00:04:47,600 --> 00:04:45,720
actually less dimming than you see with

106
00:04:50,960 --> 00:04:47,610
the general wobbling of the atmosphere

107
00:04:53,240 --> 00:04:50,970
in the original video so I think this

108
00:04:56,390 --> 00:04:53,250
actually demonstrates quite well the

109
00:04:58,760 --> 00:04:56,400
persistence of the light from frame to

110
00:05:03,200 --> 00:04:58,770
frame which is something you'd expect in

111
00:05:05,659 --> 00:05:03,210
an astronomical camera is quite possibly

112
00:05:07,339 --> 00:05:05,669
what's causing the stars not to be

113
00:05:10,040 --> 00:05:07,349

extinguished and what is causing these