Observation -

The orientation of the DFT magnitude changes with the direction of the slide. It is normal to the direction of the slide, resulting in major changes on the DFT.

Matlab Code -

```
clear all
close all
clc
v = VideoReader('C:\Users\user1\Downloads\alpinesled.mp4');
i=0;
framecell=[];
outputVideo = VideoWriter('C:\Users\user1\Downloads\alpinedft');
outputVideo.FrameRate = v.FrameRate;
open(outputVideo)
while hasFrame(v)
    frame = readFrame(v);
    frame_gray=rgb2gray(frame);
    frame dft=fft2(frame gray);
    frame_dft_mag=abs(frame_dft);
    frame dft mag2=mat2gray(log10(frame dft mag +1));
    frame dft final=fftshift(frame dft mag2);
    writeVideo(outputVideo,frame dft final)
i=i+1;
end
close(outputVideo)
```