

## Lisa Rector

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**From:** Jeff Hallowell <jeff@biomasscontrols.com>  
**Sent:** Friday, February 1, 2019 12:18 PM  
**To:** Lisa Rector  
**Subject:** Re: Kelvin question

Hi Lisa,

I am well and hope you are too.

There are many video systems available for such as NEST, Blink and Amazon cloud cam for a few hundred dollars. This is option 1 and is very low cost. Many labs already use cameras for safety and security. These include a mobile application where the camera could be looking at the tested appliance and data on the test equipment. This is the lowest cost option where you would not see the physical data but an image of the labs test equipment for verification of value and time.

The next best option is to build an app to integrate the information as a live feed from the test equipment. Most equipment has a serial or USB output and for about \$5,000 or less I am sure they could purchase equipment and help for the integration.

Kelvin also has the test procedures and can integrate other third party data such as weather data and more. We have spent well over a \$250,000 on Kelvin over the past 7 years but we have also had to keep up to date with new version of the Apple and Android operating software that is not required if you purchase and off the shelf product that has cost shared by many users and sometimes advertisers.

I hope that helps. I can speak next week if you need more clarification.

Kins regards,

Jeff

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On Fri, Feb 1, 2019 at 11:11 AM Lisa Rector <[lrector@nescaum.org](mailto:lrector@nescaum.org)> wrote:

Hi Jeff! Hope you are well. NESCAUM is working on comments to EPA on their ANPRM. We are commenting that states want EPA to require "kelvin or Kelvin-like" video and data acquisition for all certification testing. It would be helpful to use, if we had a ballpark figure on the cost to set-up these systems and costs to run during testing. Do you have any insights, you could share?



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