-------- Original Message --------

|  |  |
| --- | --- |
| **Subject:** | RE: Cameras |
| **Date:** | Thu, 30 Oct 2014 01:36:13 +0000 |
| **From:** | Andy von Flotow [<Andy@hoodtech.com>](mailto:Andy@hoodtech.com) |
| **To:** | Juris Vagners [<vagners@u.washington.edu>](mailto:vagners@u.washington.edu) |

Juris:

The only turret Flexrotor is currently able to carry is Hood tech’s smallest, EO-only, data sheet attached.  Mounting this turret onto Flexrotor is still evolving, both vibration and airframe obscuration are current topics.

I suspect you’ll spend several seasons developing/validating remote sensing alternatives with manned aircraft.  I attach an image of a Cessna carrying a Hood Tech turret.

Andy von Flotow  
Hood Tech Corp  
Hood River, OR, 97031  
ph 541-387-2288  
fax 541-387-2266  
  
-------- Original Message --------

|  |  |
| --- | --- |
| **Subject:** | RE: Cameras |
| **Date:** | Thu, 30 Oct 2014 03:12:34 +0000 |
| **From:** | Andy von Flotow [<Andy@hoodtech.com>](mailto:Andy@hoodtech.com) |
| **To:** | Juris Vagners [<vagners@u.washington.edu>](mailto:vagners@u.washington.edu) |

The EO video imager in the Alticam 05-EO1 has a motorized IR filter.  It can be removed/restored with an in-flight command.  Why not invent ways to use this feature?  You’d sequentially image in “EO” and in “EO/NIR;” time-share.  The switch consumes a fractional second.

Hood Tech’s price for that turret is under $20k; I don’t remember the exact number.

You’ll spend more on flying it, and various peripherals.

Andy von Flotow  
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**From:** Juris Vagners [<mailto:vagners@u.washington.edu>]   
**Sent:** Wednesday, October 29, 2014 7:54 PM  
**To:** Andy von Flotow  
**Subject:** Re: Cameras

Andy,  
  
 Thanks! As I understand it from my science colleagues, maybe the package we would like is standard EO plus a modified unit with the IR filter removed. What would such units cost us?  
  
Juris  
  
  
  
  
On 10/29/14, 6:42 PM, Andy von Flotow wrote:

Near-IR is often imaged with “standard CMOS focal planes” with the IR cut filter removed.  A typical presentation is:  NDVI  <http://en.wikipedia.org/wiki/Normalized_Difference_Vegetation_Index>

Many do this.  Hood Tech has not.

Andy von Flotow  
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**From:** Juris Vagners [<mailto:vagners@u.washington.edu>]   
**Sent:** Wednesday, October 29, 2014 3:30 PM  
**To:** Andy von Flotow  
**Subject:** Cameras

Andy,  
  
Our effort to put together a proposal to the NSF CyberPhysical Systems program is now getting into full swing. A synopsis of what we would like to do is attached.  
  
We obviously will need to define the instrumentation that can do the job (this is up to the snow scientists), but a camera pod will certainly be part of the package. So what I need at this point is info on Hood Tech cameras: E/O and IR. Then, there is apparently good info available in the near IR which I assume could be obtained from an E/O camera with IR filters removed. The package would need to be configured to fly on Flexrotor.  
  
So what I need at this point:  
  
1. Performance specs on the Hood Tech cameras  
2. Price (hopefully the good old boy price ...)  
3.What it would take to put together the mounting for Flexrotor  
  
Thanks!  
  
Juris