
Subject: Re: Determing true resolution of an image?
Posted by [Martin Downing](#) on Sat, 09 Mar 2002 10:16:17 GMT
[View Forum Message](#) <> [Reply to Message](#)

"Timm Weitkamp" <weitkamp@esrf.fr> wrote in message
news:2aa6be0a.0203080819.23972200@posting.google.com...
> chrisduckworth@hotmail.com (cnd) wrote in message
news:<3c8856d3.58341995@news.mem.bellsouth.net>...
>
>> [...]
>> It sounds like you want to do an MTF (modulation transfer function)
>> measurment. This is a some what common measurment. If I rember my DSP,
>> you need to scan the analog image at a rate of 2.15 times the analog
>> nyquest.
>> But, umm, this is probably the wrong news group for this stuff.
>
> Well, be that latter point as it may. Chris, do you have a good
> textbook or tutorial reference for this stuff at hand? I happen to be
> concerned with this kind of problem but find it hard to get hold of
> efficient learning material on DSP fundamentals such as sampling
> issues (that 2.15 is not really intuitive).

I dont think this is cross posting - IDL users appear to be asking more and more - how do I solve this problem, rather than how do I implement this algorithm/fix this code in IDL :)

Well "intuitively", you need at least two samples per wavelength, one for the peak and one for the trough, then you need a little extra to ensure you do not get caught measuring the mid point each time. Of course - you can produce some incomprehensible equations to the same effect!!

Martin
