

EM 406 Vibrations

PRELAB 5: Using the Photon to take FRF data

In this lab you will be looking at how to set up RT Pro to take data.

For you to do:

A friend of mine from the University of Massachusetts – Lowell is an expert on experimental modal analysis and teaches a short course for the Society of Engineering Mechanics called “Modal Analysis for the Young Engineer.” He also writes an article for *Experimental Techniques* called “Modal Space” where he answers readers’ questions regarding various aspects of modal analysis. He has put together some Flash files related to the acquisition of data for a structure that I thought it would be good for you to watch since he uses a Photon. The version of RT Pro he is using is a bit older than ours, but the process of setting it up is very similar. Therefore, this is what I want you to do:

1. Watch the flash video and take notes. They don’t have to be extremely detailed, but good enough so that you know the things that need to be changed when you create your own project in RT Pro. One way of doing this is to watch the video in one window and then take notes in a Word document. Just making a bullet list of comments is fine.

You will turn in your notes on Wednesday.

This first video is an overview of RT Pro that is used with the Photon.

[Dactron FFT Analyzer overview](#) (needs Flash Plugin loaded)

If the link above doesn’t work, the URL is:

http://faculty.uml.edu/pavitable/22.403/web_downloads/flash/ME_Lab_DACTRON_setup_091806.htm

Next week we will look at some additional videos of a modal test.