1. **Instacal® installation:**

   Insert the CD called “PhotoStress Plus InstaCal CD” shown below:

   ![PhotoStress Plus CD](image1)

   The CD will not automatically launch. Explore the CD and find the file “InstaCal.msi” and double click on it to initiate the installation. The following dialog box will appear:

   ![InstaCal for Windows - InstallShield Wizard](image2)
Click **Next** (2 times) to accept the default installation location. Then, click “Install” to load the InstaCal application. After the installation completes, click “Finish”. Then reboot your system when prompted.

After your system has rebooted, plug the Compensator USB interface module into a USB port. Next, plug in the RJ45 cable into the USB interface, connect the other end of it into the back of the Compensator and then turn the compensator on. Then, go to the Windows **Start** button; choose **Programs/Measurements Computing/Instacal** to launch the **Instacal** program.

The InstaCal program will automatically detect the USB interface as shown (Note: serial number will be different for every module). Click OK.

The PC Board List will now show the new USB module with the name PMD-1208LS (or USB-1208LS for newer units). Using the mouse, select the new board as shown.
Next, on the main menu, choose **Test** then select **Analog**

With the Analog Loop Back Test tab visible, adjust the Compensator to 1.00 then back to 0.00 and observe the screen. Make sure the meter voltage increases/decreases as the Compensator panel meter increases/decreases. If successful, click OK to proceed. Otherwise, verify that the previous steps have been completed correctly.
Return to the main menu, choose **Test** then select **Digital**. The following screen appears. Check that jumper is wired properly between Pins 21 and 32 by pressing Test. If OK, you will see a green “Pass” symbol indicated. If incorrect, you will see a red “Fail” indicated. If green, click OK and proceed. If red, contact QC Manager. Note: Compensator must be connected and turned on or the test will fail.

Once testing is complete, the circle in row “1” under the “Pass” column should be green, indicating the board has passed the test.

Close InstaCal. Preliminary testing is complete.
2. **USB Video stream device driver installation:**

Place the "**Multimedia Installation Kit**" CD-ROM into your CD-ROM drive;

Run "D:\GrabBeeX+deluxe\Driver\Setup.exe "; (assuming the CD-ROM drive is D: drive)

![InstallShield Wizard Welcome](image1)

Click "Next"

The Complete Setup Wizard Dialog box appears.

![InstallShield Wizard Complete](image2)

Click "Finish"

Complete the Setup Wizard, then restart the computer.

After computer restarts, insert the GrabBeeX+deluxe device into the computer’s USB 2.0 port, the system will now detect the new device and complete the installation.

Next, verify that the GrabBeeX+deluxe driver has been installed successfully. Go to **My Computer -> Control Panel -> System -> Hardware -> Device Manager**. Look for the USB 2821 Device as shown below.
Driver Installation (For Windows Vista)

Do not connect the GrabBeeX+deluxe device to your computer USB port until the driver installation has been completed.

Please insert the "Multimedia Installation Kit" CD-ROM into your CD-ROM drive;
Run "D:\GrabBeeX+deluxe\Driver\Setup.exe"; (assuming CD-ROM drive in D drive)

Click "Next"
Complete Setup Wizard

Click "Finish"

Complete the Setup Wizard, and then restart the computer.

Once the computer has restarted, plug the GrabBeeX+deluxe device into the USB 2.0 port; the system will now detect the new device and install completely. Please check whether the GrabBeeX+deluxe driver was installed successfully. Locate and right-click on your Computer icon on the desktop, click and select Properties. Find Tasks to the left of your window, and then select Device Manager.
3. **PSCalc Installation**:

Next, insert the CD marked as “PSCalc” and install follow the steps for installing the software.

Next, make sure the video camera is connected to the GrabeeX Delux device and switched on, then launch PSCalc: PScalc. You should now see a live video image visible on the Image Tab. If an error occurs make sure camera is on and the correct video source is identified on the Options>Devices pull down menu. When correct, the video feed image should automatically appear on the Image Tab.

Go to: **Options -> Calibrate compensator**, and follow the required procedures for compensator calibration. This procedure should be performed only once, during initial installation.

Follow the tabs from left to right and make sure all the parameters are inserted in the right locations:

- **Project**:
  
  - Create a project name
  - Create a test name
  - Define number of points
  - Define number of load increments or steps.
  - Add correction according to need. Read the available Tech-Notes on this subject.
- **Plastic:**
  - Choose the correct plastic that is being used for the test from the available list.
  - If you choose to add a plastic which is not a part of the list, enter the required values.
  - If you choose to calibrate plastic, read the available Tech-Notes on this subject before proceeding.

- **Structure:**
  - Choose the structure material being used from the available list, or add a new structure by going through the “Add structure” button. Make sure to define all the required parameters.
• Points:

- Insert plastic thickness values
- Insert structure thickness values (no need for high accuracy here, read Tech-Notes on relation between plastic & structure values)
- Enter load units
- Enter load steps

• Test:
- Take R0 reading when the “load” tab indicates “no load”
- Load your test part
- Make sure that the correct point number is on the “point” tab
- Take Rload reading when the “load” tab indicates the desired load level.
- When the “Auto Increment” slot is marked, the software will move automatically from point to point and by load steps

Results

- View the results at the graphs and tables.