

## 1.1 Error Messages

Due to erroneous operations or calculations PhoX creates different error messages. Possible reasons or advices to solve the problem are listed below:

<b>Error code</b>	<b>Description</b>
1001	<b>File not found</b> The entered file name could not be found.. Check spelling and possible problems with access rights (e.g. for server disk space). Also check if the desired file really exists.
1002	<b>Invalid file name</b> The entered file name does not match the Windows rules for correct file names. Check hard drive name, server name or file name.
1003	<b>File access error</b> The file cannot be accessed due to a problem with access rights. Check if the file is already used by any other program and close it in case. Check your read and write rights.
1004	<b>Invalid file format</b> The file does not consists of correct data or the data is stored in a wrong format (e.g. coordinates, project file etc.). Possible error sources are invalid decimal character (dot or comma), tabs within the text file, empty file or others. Special input formats can be defined in the PhoX program options.
1005	<b>File format is (not yet) supported</b> The format of the image file cannot be loaded by PhoX. Save the file under another format such as JPEG, TIFF oder BMP.
1006	<b>Image file not found</b> The entered file name could not be found.. Check spelling and possible problems with access rights (e.g. for server disk space). Also check if the desired file really exists.
1007	<b>Error in contour file</b> The text file with data of measured image contours (edges, lines) does not match the required format.
1008	<b>Warning: very large image size</b> The loaded images exceed the limit of 500 MB of RAM so that some function do not work or work only with certain limitations. If images are temporarily not used the associated bitmaps should be removed from the project tree. The image data is not

lost and can be reloaded at any time.

- 2001 Singular equation system  
For an adjustment process a singular normal equation matrix exists. Possible reasons can be insufficient distribution of observations (e.g. control points, image points). Check the input observations (measured values) and activate in program options a more detailed output logfile in order to identify the problem.
- 2002 Maximum number of iteration exceeded (warning)  
The warning will be displayed if an adjustment process does not converge. Check all input data and optionally increase the number of permitted iterations.
- 2003 Too small number of observations or points  
The adjustment cannot be started because the number of observations is smaller than the number of unknowns.
- 2004 Invalid data of interior orientation  
The current image has no valid data of interior orientation, e.g. a wrong camera constant (must be negative), a wrong sensor format or inconsistent camera.
- 2005 Invalid data of exterior orientation  
The current image has no valid data of exterior orientation, e.g. a singular rotation matrix. Check exterior orientation data in image properties.
- 2006 Function not defined  
The selected function is not defined or not yet implemented.
- 2007 Invalid data of stereo model  
The selected stereo model has inconsistent data, e.g. no assigned images or the same image as left or right image.
- 2008 Invalid data of relative orientation  
The selected stereo model has inconsistent data, e.g. identical images left and right or aa base line of zero.
- 2009 Collinearity equations cannot be calculated  
The denominator of the collinearity equations is equal to zero. Possible reasons are that object point and perspective center are identical, or the object point lies in the image plane
- 2010 Invalid point distribution  
The spatial distribution of image or object points is not valid or very weak, e.g. if point lie on a common straight line or if they build are very small area.

- 2011      No initial values found for space resection  
For space resection no starting values could be computed. A typical reason is a bad configuration of image and object points,
- 2012      No convergency  
The adjustment does not converge.
- 2013      Invalid images for stereo model  
The images assigned to a stereo model have inconsistent data
- 2014      No hight model assigned  
The calculation of orthophotos or measurements by monoplotting cannot be performed because a digital height or surface model has not been selected.
- 2015      Monoplotting cannot be performed  
The measurement of object points by monoplotting fails because there is no intersection of an image ray with the surface. Possible reasons are erroneous surface models (triangles, DTM), missing orientation data of the image or an image measurement that points to a point outside the surface model.
- 2016      Function is not yet implemented  
The desired function is not available.
- 3001      Error at point measurement  
Error for image point measurement. Possible reasons are a too small measurement window, so that a point pattern cannot be covered completely. Other possible reasons are low contrast, unsharp images or occlusions that disturb the point pattern.
- 3002      Points outside window or image  
The point to be measured lies outside the measurement window, or outside of the complete image.
- 3003      Resulting point coordinates outside window or image  
The result of a point measurement lies outside the measurement window or the image.
- 3004      Undefined template  
There is no template available for the measurement method Template Matching.
- 3005      Maximal permitted deviation exceeded  
The calculation of a point center has led to a standard deviation that is higher than the permitted limit.
- 3010      No points above threshold  
There are not enough image points with greyvalues above the selected threshold. The

- threshold can be adapted in the program options.
- 3020 Measurement method is not defined  
The selected function is not defined or not yet implemented.
- 3030 No edge found  
The measurement of lines or contours has failed.
- 3040 Invalid nodes for contour measurement  
The entered nodes for contour measurements are not valid.
- 3041 Maximum permitted curvature for contours exceeded  
The line following process for contour measurement was interrupted since the curvature of the line is too high.
- 3042 Maximum permitted number of contour points exceeded  
The maximum permitted number of contour points has been exceeded and the measurement was terminated.
- 3043 No edge found for contour measurement  
There were no sufficient edge points for contour measurement.
- 3044 Contour points too close  
The measured points of a contour are too close to each other.
- 3050 No point code detected  
A coded target can not be detected, e.g. due to bad contrast.
- 3051 Point number cannot be decoded  
The number of a coded target could be decoded into a valid point number.
- 4001 Not enough memory  
There is not enough available memory space (RAM).
- 4002 Invalid input  
The entered value was not correct. Check spelling and/or permitted range of values.
- 4003 Invalid object  
The selected object has invalid properties.
- 5001 Invalid colour format of image  
The current image consists of an invalid colour format that is not supported by PhoX, e.g. 32 bit images. Use another image processing program and save the image with a valid format, e.g. greylevel image with 8 bits or true colour images with 24 bits.

- 5002 Invalid filter size  
The selected filter size is not supported.
- 5003 Invalid image address  
There is no access to image data in memory.
- 5004 Invalid image size  
The size of the image is not valid. The minimum size of rows or columns is 1, the maximum size is 10000.
- 5005 Invalid template size  
The loaded template image has an invalid size. Template images but have at least 3x3 up to 255x255 pixels, with odd numbers of rows and columns. Templates may have rectangular shapes (e.g. 7 x 19).
- 5006 Invalid image window for matching  
The reference window and/or the search window for matching and correlation is not valid.
- 5007 Correlation coefficient is too low  
A correlation function has resulted with a a correlation coefficient below the minimum threshold which has been defined in [Edit/Options/Image measurement/Correlation](#) → *Threshold*.
- 9000 Invalid license file  
The license file PhoX.plf is either corrupted or consists of invalid characters
- 9001 Invalid MAC address  
The current license of PhoX does not match the physical MAC address.
- 9002 License period exceeded  
The licensed period for using PhoX is exceeded.
- 9003 Invalid dongle  
The installed dongle is not valid or cannot be detected.
- 9004 Invalid license options  
The current PhoX version is not compatible with the license file.