The Settings window allows you to define global parameters for the entire LVis system.

Global Settings The fields on the Settings dialog are defined as follows:

1. Path to the base directory of all measurement data. Unless differently defined by additional program functions, all measurement data is filed in this directory.

2. Here the path to the GammaVision application is defined. This information is crucial for LVis operation.

3. If your LVis is supposed to import sample data from a LIMS you can specify here the path to the respective directory where the sample information files are located. Importing sample data via automated file exchange requires some customization. If you would like to use this feature contact your local ORTEC sales representative.

4. If your LVis is supposed to export analysis results to a LIMS you can specify here the path to the directory where LVis will save the analysis results files that are to be imported by the LIMS. Exporting sample data via automated file exchange requires some customization. If you would like to use this feature contact your local ORTEC sales representative.

5. Default value of max. half-life correction. If a decay correction is activated in a parameter set, this value defines from which time no correction should be applied. The value defined here is a default value only. You can adjust the value to be used for measurement analysis in the respective parameter set.

6. Besides saving spectra in LVis' .LVM files, it is also possible to save them in the GammaVision .SPC spectrum file format. If this is a general request, this setting can be enabled by activating "Automatic SPC file creation after analysis". SPC files receive the same names as .LVM files and are stored in the same directory (See Item 1).

7. LVis can export the entire measurement data and analysis results into a MS Access database. For this purpose activate "Automatic database file creation after analysis". The database created receives the same name and is stored in the same directory as the .LVM file (See Item 1). This is useful, if you would like to perform further calculations based on the results of an analysis (dose rate calculation, etc.), or if you would like to transfer selected data to a different database (LIMS systems). The structure of this database is explained under "Analysis database structure" in this manual.

8. Analysis algorithm selection Here you can select which GammaVision analysis algorithm you would like to use for the analysis of your spectra. The algorithms differ in general, if it has been specified earlier to receive false positive or false negative results and if the focus is on library-based or mathematical (Mariscotti) peak search. More detailed information regarding the individual analysis algorithms can be found in the GammaVision manual. We recommend either using ENV32 or NPP32 for LVis operation.

9. Activation of library-based peak stripping. More detailed information can be found in the GammaVision manual. We generally recommend activating this function.

10. Definition of the suspected nuclide library Here the path to a library is defined, which is used to retroactively compare unidentified peaks of an analysis in order to propose in the report a nuclide for these peaks. This library is not used for the actual analysis and thus can contain significantly more nuclides.

11. Simultaneous measurement support activation with several detectors using parameters sets of

the same names (multi-detector configuration). Here you can define the storage location of these multi-detector measurement data as well as the automatic file name generation. For further information, please refer to Multi-Detector Configuration.

12. It is also possible to adjust several input field labels in order to better correspond to the actual laboratory setup. The labels proposed here are default values only. You can adjust the names to be used for measurement analysis in the respective parameter set.

13. Automatically open geometry list of a detector in the configuration bar (in case of many geometries or detectors, it is expedient to suppress this functionality!)

14. Parameters for automatic file name indexing. Here you can define number of digits, start value and validity period of indexes. Automatic indexing in file names can be used in the parameter set by adding i in the name field (see Edit parameter set).

15. Activating PDF Support can be done by ticking this box. If ticked, the analysis reports will automatically be saved as pdf files and displayed in the default pdf viewer.

HINT Note that when PDF Support is activated, reports will not be sent automatically to your default printer. They will be displayed on screen and saved in the same location as the measurement .LVM file.

16. When the use of the LVis user management “Uli” is desired, it can be activated here by entering a valid IP address. In cases when the user management configuration is supposed to be on the local pc, enter 127.0.0.1.

17. If LVis shall automatically log out a user after a certain idle time, simply enter a time in seconds here.

18. If measurements shall be approved before being published (eg. results exported to a LIMS or QA measurements being transferred to the LVis detector QA database), tick this box. (see Approval of Measurements and Analysis Results for more details)

19. In case you are using the free software EFFTRAN by Tim Vidmar (www.efftran.com) for the calculation of true coincidence summing factors or efficiency transfer, it is possible to automatically have LVis combine all necessary information about the geometrical setup and trigger the calculation. To do this simply enter here the EFFTRAN and MEFFTRAN file locations. More information can be found in chapter Using EFFTRAN with LVis.

20. Clicking on the “Units” and “Labels” buttons takes you to the respective menus, where you can define default values for the pull down menus available in the parameter set. (for further information refer to the following chapters)

21. Under “Peak search” you can define peak search parameters that will be applied if no other respective parameters were defined (if e.g., spectrum acquisition was not started parameterized). The adjustment options correspond to the options in parameter sets.

IMPORTANT Your changes will only be applied if you are logged in as the administrator, i.e., if you have unlocked the application.

Pre-Defining Sample Size Units for Parameter Sets LVis lets you choose sample size units offers the option the select the different units in a parameter set (activity unit, sample weight, reference

quantity) via the pull-down menu.

For this purpose, several commonly used units are predefined. However, you can add any number of units, which can then be selected in a parameter set.

IMPORTANT Newly added units are only available after their setup in the parameter sets has been completed. Measurements and parameter sets that are open, when the new unit is created, will only offer the new unit, once they are closed and opened again.

You reach the respective menu by clicking on the “Units” button in the global Settings window.

A factor is displayed next to each unit. This factor defines the ratio between this unit and already existing or basis units (which has a factor 1).

Example: Liter corresponds to a factor of 1, m³ corresponds to a factor of 0.001, and 1000 liters correspond to 1 m3.

In order to add a new unit, simply click on “New”. The following window opens:

Enter the respective unit description as well as the corresponding factor, then click on “OK”.

HINT You can also add further explanation to your units. For example, you can differentiate between dried (dry mass) and untreated samples (moist mass). This can easily be indicated in the sample reference unit by using kg (DM) and kg (MM).

Pre-Defining Users, Sample Descriptions, and Sample Locations for Parameter Sets In LVis you can provide a number of descriptions per measurement. Some of these descriptions can be predefined, so that you do not have to enter them over and over again, but can simply select them from a pull-down menu. To do this, click on the “Names” button in the global Settings window to open the following dialog.

LVis lets you pre-define, or add to pre-defined, lists of user names, sample categories, and sampling locations from pull-down menus used in the parameter set window. “Category” helps to summarize different measurements into individual groups. “User” indicates the person who measured the sample. This input field can however be named differently by clicking in the field above the table. The same is true for the last category whose default label is sample Location (or sample origin). In the above picture, this was changed to “Sample Type”. Note that for parameter sets that are linked to an external database, the Location field will be used for the selection of a dataset and will hence not display the entries listed here!

In addition, you can specify, for each type of entry, whether it is a mandatory, “Required” field that must be entered into the parameter set by the user prior to any measurement analysis.

You can also assign each name or description with an alias (Shortcut), which can be used in the parameter set for automatic file name generation using the dollar commands U for user, C for sample category, and L for the sample location. For further information, refer to Edit parameter set and the table of dollar commands. In order to add a new name or description, click on “New” beneath the respective table. The following window opens:

Enter the name or description with its corresponding abbreviation, then click on “OK”.

IMPORTANT Newly added units, names, and descriptions become available for use once data entry on the Settings dialog is complete and the dialog is closed. Measurements and parameter sets that are

open when a new description is created will only offer it in the respective pulldown menus after they are closed and opened again.