



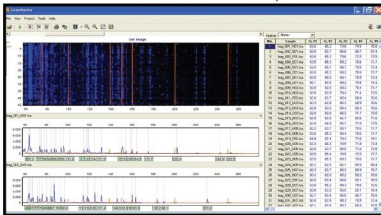
## GeneMarker™ a software PowerTool for AFLP & Genotyping applications Program Benefits:

- Multi-Application
- High sensitivity
- Automated saturation correction
- Point & Click
  - Binning
  - Panel Management
- Complete Automation
- Quick Learning Curve
- Multiple sizing algorithms
- Automated Pull up removal
- Built in reporting and report printing
- Low acquisition cost
- 4 or 5 color analysis
- Automated base line adjustment
- Quality Linearity graphing
- Ease of use

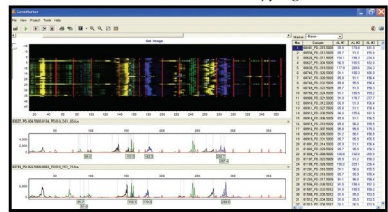
Gene Marker AFLP/Genotyping software has been designed and created in order to provide genetic researchers with a highly useable genotyping analysis tool. We incorporated the suggestions and requirements of several research groups into the software, whose main requirements were ease of use, high accuracy, flexibility and low acquisition cost.

Nearly every function of Gene Marker has been automated so that once the template is selected from the menu, or created by the user, the software will automatically perform the analysis, providing a myriad of display and reporting options. Once the analysis has been completed and confirmed, the software saves all of the analysis parameters, raw data and results for easy archiving and call back at a future date.

GeneMarker for AFLP Analysis



GeneMarker for Genotyping

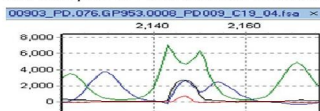


GeneMarker is an excellent tool for nearly all Genotyping applications. The gel image provides a quick overview of the AFLP analysis, allowing rapid discernment of areas of interest.

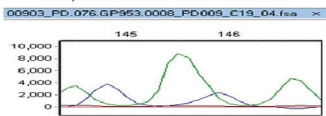
In the Fragment/Microsatellite mode, the software provides either a 4 or 5 color overview of the analysis. User can easily "zoom" in and out of the gel image and the software will change the corresponding electropherogram view.

## Automated Stutter and Saturated Peak Correction

Raw trace prior to Peak Saturation Correction



Analysis after Saturation Correction



GeneMarker includes a unique algorithm to automatically correct saturated data by creating a synthetic estimate of the peak shape based upon the peak curve prior to saturation point. The program's user definable stutter filter allows the removal of both forward and reverse stutter commonly caused by the chemical reactions and PCR slippage. Once set and saved, the program will automatically apply setting to the data without further user intervention.



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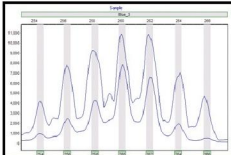


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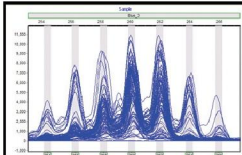


## Point and Click Panel Manager

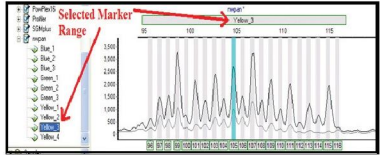
GeneMarker provides a simple & easy to configure panel manager offering 2 panel management views: **Max and Average**, which combines the average intensity of all traces **overlaid** with selected file traces, and **Include All** mode which overlays the traces of all sample sets in the analysis. Panel markers can be created or modified by mouse pointing and clicking. Once the panel has been saved, the software run wizard will automatically perform analysis.



Max and Average View



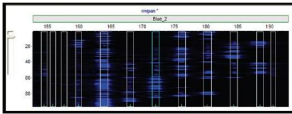
Include All View of Panel Manager



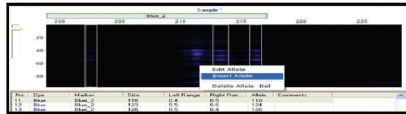
Point and Click Panel Creation

## Rapid Binning

Binning or modification of a binned group is easily accomplished by zooming in on the gel image, drawing a box with your mouse to indicated binned area and clicking ok. GeneMarker will automatically bin selected area, and ask for confirmation.



Click and draw bins in zoomed gel image

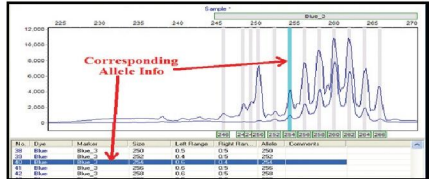
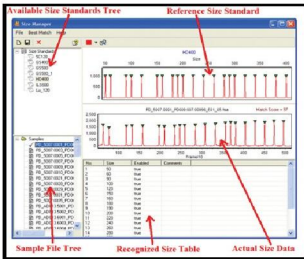


Point and click editing of bins are linked to Allele editor dialog box



## Linked Allele Table & Electropherogram

For rapid analysis and convenience GeneMarker links the allele marker table and allele electropherogram. The allele table can be easily edited by double clicking on appropriate allele to modify the data.



## Template Manager

The easy to use Template Manager permits the creation of customized sized standard or the editing of an existing standard. Again just point and click to add or edit a size standard.

GeneMarker includes several commercial size standards in its library. Just choose one for a particular analysis, save the template and the software will automatically utilize selected standard for that analysis.

## Operating System Requirements:

Pentium III processor or equivalent, with 1GHzz, 128M Byte CPU, and 10 GB hard drive. The software can be used with Microsoft® operating systems Windows® 2000, NT & XP.

