ScanFlex™ Scanning Device

Automated scanning device with area measurement software.

➢ Can be used in conjunction with the Tissue Train® System to determine the compaction kinetics (change in area) of 3D cell seeded-gels.

➢ Scans four 6-well or 24-well Flexcell® culture plates placed on the scanner bed.

➢ Measure gel compaction in 3D bioartificial tissues.

➢ Automated repetitive scanning process.

➢ Scans and saves images up to 600 dpi of 3D tissue constructs.

➢ User defined frequency and time intervals of image capture.

➢ Images can be imported into XyFlex™ programme (Fig. 16) to analyze area measurement in a series of images.

➢ XyFlex™ software evaluates the area compaction of 3D bioartificial tissue constructs.

➢ The software is compatible with images captured with the ScanFlex™ system.

➢ XyFlex™ creates Microsoft® Excel and text files for evaluation of changes in area.

➢ XyFlex™ includes a manual editing tool for customized image processing.

➢ XyFlex™ allows image grouping for ease of post-process analysis.

➢ ScanFlex™ system includes:
  - ScanFlex™ and XyFlex™ software
  - Epson® colour scanner
  - Frames for 6-well and 24-well Flexcell® culture plates
  - Scanner plate cover
  - Instruction manual
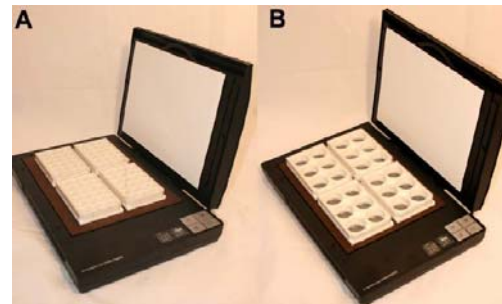

Figure 14. ScanFlex™ scanning device

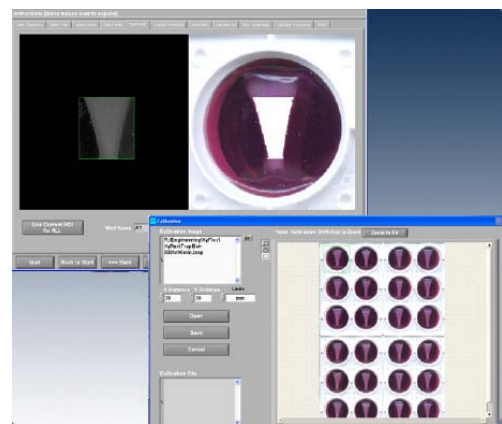**Figure 15.** Arrangement of Flexcell®'s A) 24-well and B) 6-well culture plates on the scanner bed

Figure 16. XyFlex™ software