

Komet 6.0 and DBV – Comet Assay Image Analysis and Data Processing

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Release Notes

Andor's Komet® software has been the recognized leader in the field for more than 15 years – Andor acquired Kinetic Imaging in 2004. Throughout its life Komet has consistently provided innovation through enhanced usability, analysis and data management. Database Viewer (DBV) has been an essential companion to Komet since version 5 was introduced in 2002, pioneering the use of integrated image and data storage for the Comet assay. DBV provides tools for data and image review, specimen- ID-to-treatment decoding, visualization and data preparation for subsequent statistical analyses.

The new version, Komet 6.0 formally released this week, now includes drivers for Andor's CCD and EMCCD cameras, which are extremely well-suited to imaging fluorescent comet samples. As manufacturer of both camera and software, we are able to offer a new range of Komet Workstation bundles, which include Komet 6.0, DBV a state of the art CCD or EMCCD camera and high performance Windows computer at a highly attractive price and providing best value and guaranteed performance.

Komet 6.0 can provide an upgrade path to existing users, either through the new workstation bundle or via re-use of existing 3rd party cameras. Preferential pricing to existing users guarantees value for money and protects investment to date. While enhancing hardware support and providing an upgrade path, Komet 6.0 maintains the same functionality which has made it the leading platform for data analysis of Comet specimens. All measurements of Comet intensity distributions remain unaffected so that users can upgrade without worry over data formats or algorithm changes.

Komet 6.0 can be made available as a download from our website with a short-term evaluation license enabling interested parties to try the product before purchase.

Andor now offers the following software, workstation and imaging solution options:

- **Andor Komet WKS EMR** – Komet 6.0 and DBV provided with Andor's unique Luca-R and Windows PC. Luca-R is 1002x1004, 8 um pixel EMCCD digital camera, which provides high sensitivity detection and "on-chip" amplification for low signal environments. Luca-R is conveniently interfaced to the PC via USB 2.0 and can be used other applications such as FISH and general fluorescence imaging.
- **Andor Komet WKS EMS** – Komet 6.0 and DBV provided with Andor's unique Luca-S and Windows PC. Luca-S is a USB 2.0 VGA format (658x480) 10 um pixel EMCCD digital camera. It offers high sensitivity detection and "on-chip" amplification for low signal applications.
- **Andor Komet Scope R/S** - Both the EMR and EMS workstation solutions above can be supplied with a current generation Nikon Eclipse epi-fluorescence microscope as a single source solution from Andor in all markets. In Europe the instrument can be configured optionally on an Olympus, Zeiss or Leica microscope of your preference.
- **Andor Komet 6.0R** – Komet and DBV software for installation on customer Windows PC, which provides imaging, capture, analysis live from for Andor and analysis from a wide range of file formats pre-stored on disk. "6.0R" assumes the user has another capture system which is used for image acquisitions and includes DBV.
- **Andor Komet 6.0F** – Comet analysis from a wide range of file formats pre-stored on disk. "6.0F" assumes the user has another capture system which is used for image acquisitions and includes DBV.



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Over the last 20 years Comet has become a powerful tool for applications as diverse as cancer research, safety testing of pharmaceuticals and chemicals, environmental and occupational studies, dietary and even fertility research. Because the assay can be adapted to virtually any cell-type from almost any organism and studies designs can be created to characterize DNA damage and repair as well as DNA integrity and comparisons between different populations, the assay is widely used in many different disciplines.

Earlier in 2008 the ICH Steering Committee released to regulatory authorities a draft revision of the S2(R1) document "Guidance on the Genotoxicity Testing and Data Interpretation for Pharmaceuticals Intended for Human Use". This revision includes the comet assay as a follow-up test for assessing results from in vitro or in vivo assays. Our products are intended to provide researchers around the world a platform to produce high quality data from the comet assay. For more information, please visit www.andor.com/microscopy.