

Kirtas SkyView

Versatility & High Quality Images



Versatility defines SkyView as the highest value system for imaging a wide variety of objects and bound documents today and in the future. No other digitizing system is comparable.

SkyView provides high quality, full color images to fulfill the digitization needs for many imaging applications needs in Government, business and educational markets. And the unique design of SkyView gives you the ability to image very difficult documents safely and gently resulting in high productivity while minimizing operational cost.

The images are processed to output in color, grayscale or bitonal to .jpg, .tif, .jp2000 or .pdf for ease of use. Camera RAW images can be created concurrently without productivity loss for unaltered, loss-less archive preservation.

SkyView is the latest imaging system from Kirtas Technologies for digitizing documents like:

Maps	Portraits
Newspapers	Engineering Drawings
Books	Book foldouts
Periodicals	Small 3D Objects

Versatility = Flexibility + Productivity + Low Cost

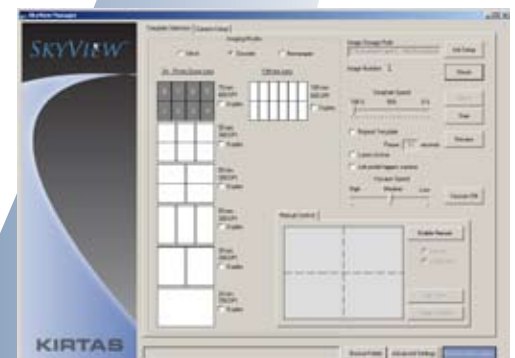
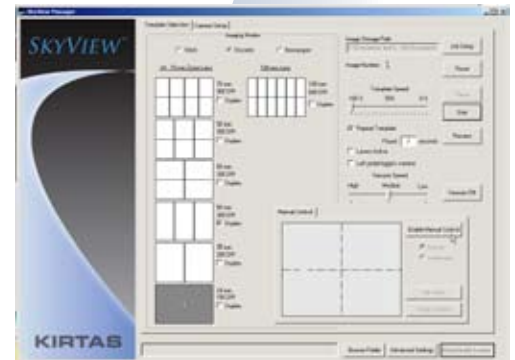
Digital Camera Subsystem

SkyView uses Canon's latest 21MP camera to create crisp, true-to-life images of your documents and objects. The versatility of the camera allows the use of optional lenses to meet your unique imaging needs. The camera looks down onto the A1 size copyboard from a system controlled motorized platform. The camera's movement and positioning over the copyboard is controlled by the SkyView Manager software. The Kirtas SkyView uses the same camera as the KABIS systems and all features and functions are the same.

SkyView Manager Templates

The SkyView Manager software controls the operation of the SkyView and provides the options that allow the SkyView to be so versatile. There are several capture templates for efficient operation to meet a variety of application needs. These templates accommodate imaging very large to very small objects whether loose or bound, with several resolution options. The templates define the number of sections the copyboard will be segmented into. You can use 1 section to allow for capturing the whole copyboard in one image.

You can use other templates with several smaller sections for smaller documents. The template allows for a large document to be captured in small image sections that are subsequently stitched together into one image (mosaic mode). The result will be high resolution output for small and large documents. The options include a manual mode that allows the operator to position the camera as needed for special requirements.



No other system gives you this much versatility!



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Book Foldouts

Some of the most difficult object to image is a foldout that is bound into a book. The SkyView makes it easy. SkyView has a sliding side shelf that is slightly angled to allow the book, opened to the foldout, to rest on. The foldout is then opened and spread on the copyboard. The sub-surface vacuum helps flatten the foldout. Then select the template format for the size of the foldout. The camera captures the foldout all the way into the gutter. After processing the image, it can be added to the folder with the book's pages of processed images. If one uses a Kirtas KABIS or APT system to generate the book's images, those systems will allow a place holder mark to be included in the book folder so the foldout can be easily added in the correct position. This means the digitized book has all the images are in the same sequence as the original. Full book integrity!!



Bound Newspapers and Large Ledgers

These images can be easily captured by using the Book Cradle accessory. These large format bound books are placed on the cradle and opened. The glass is used to flatten the pages for imaging. Select the Newspaper 2-up template, and "Repeat" with a few seconds delay between cycles. The camera moves into position over the left page, takes the image then moves to the right side, takes the image and pauses for a few seconds while you lift the glass, turn the page and lower the glass. The camera moves to the left side position and the cycle is repeated continuously until the book image capture is completed.



Above is another example of a wide format ledger capture in two sections, stitched together and presented as a single image full spread document.

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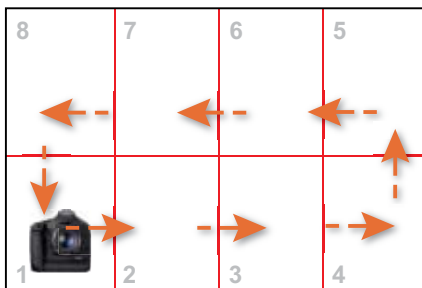
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Medium to Small Documents

For documents that are medium to small in size, high image capture productivity can be achieved. For example, a post card collection. Select a template that is 8 sections (2 rows of 4), with the camera and the imaging sequence as noted. Place down the first 8 postcards, set the template to "repeat" automatically and the operation of the camera will be continuous cycles.

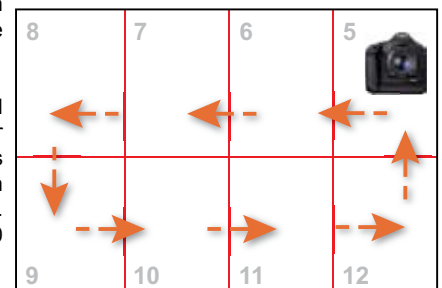


In this example, the 8 section template is used for discussing two distinctly different applications.



In the example to the left, the camera starts by taking the image in section 1, then moves to take the picture in section 2, and moves to section 3 and continues through the whole copyboard to section 8.

If the template is set to "Repeat", (right) the camera will continue to move through the same path until paused or stopped. On the first pass, the operator trails the camera's path and replaces the prior document with the one next in sequence. 9 replaces 1; 10 replaces 2, 11 replaces 3, etc. The productivity rate in this mode could be as high as 1,000 images per hour.



Large Documents

Maps and drawings are a common large format documents to image. With SkyView, you can image the whole map in one exposure at a low resolution or you can image the map in sections and then stitch the images together with the software provided to create a single high resolution image.



The 8 sections have been stitched together to create the high resolution single image

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3D Objects

The capture system has a depth of field focus and can be used to image some types of 3-D objects like coins, artifacts, medallions, etc. Below are some examples. The above describes several of the major features and functions of the SkyView system. There are additional flexibilities with the templates, the path of the camera and the lenses, etc., that can be used with the SkyView to provide you maximum image quality and productivity to meet your imaging project needs.

The SkyView system provides you the greatest versatility to image a wide variety of objects with significant flexibility and high productivity resulting in exceptional value. Visit our website to see the SkyView video.



Resolution

The image resolution (pixels per inch) varies depending on what you want to achieve. With the standard lens that is included you can output images from 150-600ppi, as single images or stitched images. You can use other optional lenses with the camera to achieve different results. A test was done with a 180mm Macro lens to image a small object on a raised platform and resulted in 2000+ppi! The flexibility and versatility are amazing!



Low Cost
Flexibility
+ Productivity

SkyView Versatility

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SKYVIEW

High-speed image capture, stitching & post-processing.

SkyView

- Canon 21.1 MP digital SLR camera (w/CMOS sensor)
- Canon EF 24-70 mm zoom lens
- Max imaging area: 35" x 25" or 90cm 64cm
- 24-bit Color
- Automated, motorized overhead optical system
- Adjustable sliding bookshelf for oversize books & foldouts
- Gentle vacuum flattening technique
- Laser-guided imaging templates
- Repeatable imaging cycles
- 3-Axis automated microstepped motion
- 19" flat-panel monitor on swing arm
- Mini keyboard & mouse
- Height-adjustable, ergonomic table
- Book Cradle and Platen

Kirtas Image Processor

- Quad Core 2 GHz processor
- 3 GB RAM
- Two 1 TB hard drive (RAID 10 storage)
- Two Gigabit Ethernet cards
- Windows 7

Software

- SkyView Manager software
- High-precision stitching software
- BookScan Editor™ single-user software
- JPEG 2000

Optional

- Canon EF 100 mm fixed MACRO lens
- BookScan Editor™ Pro (OCR & Searchable PDF)

SKYVIEW RA

High-speed image capture, increased stitching speed, batch stitching, and multi-user remote access post-processing.

SkyView

- Canon 21.1 MP digital SLR camera (w/CMOS sensor)
- Canon EF 24-70 mm zoom lens
- Max imaging area: 35" x 25" or 90cm 64cm
- 24-bit Color
- Automated, motorized overhead optical system
- Adjustable sliding bookshelf for foldouts
- Gentle vacuum flattening technique
- Laser-guided imaging templates
- Repeatable imaging cycles
- 3-Axis automated microstepped motion
- 19" flat-panel monitor on swing arm
- Mini keyboard & mouse
- Height-adjustable, ergonomic table
- Book Cradle and Platen

Kirtas Image Server

- 2 Quad Core 2.5 GHz processors
- 12 GB DDR2 ECC SDRAM
- Four 1 TB hard drives (RAID 0, 1, 5, 10 storage)
- Two Gigabit Ethernet cards
- Windows Server
- Kirtas Camera Controller

Software

- SkyView Manager software
- High-precision stitching software
- BookScan Editor™ multi-user software
- JPEG 2000

Optional

- Canon EF 100 mm fixed MACRO lens
- BookScan Editor™ Pro (OCR & PDF)



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