

## MAGNUM XL 54

The two MAGNUM XL 54 scanner models differ in performance. The BASE model can easily be upgraded with new features for future requirements through the Smart-Card Upgrade Kit.

MAGNUM XL 54 Wide Format Color Scanner Models	BASE	PLUS
<b>Maximum Resolution:</b>	(in dpi)	800 2400
<b>Optical Resolution:</b>	(in dpi)	508 508
<b>Scan Accuracy:</b>	0.1% ±1 pixel	✓ ✓
<b>Variable Resolution Setting:</b>	from 50 dpi in one dpi increments	✓ ✓
<b>Scanning Speed inch/sec.:</b>	(400 dpi turbo, 24-bit RGB) (400 dpi turbo, 8-bit Index) (400 dpi turbo, B/W)	1.5"/s 3.0"/s 3.0"/s 3.0"/s 4.0"/s 8.0"/s
<b>Media Maximum Width:</b>	56" (1420 mm.)	✓ ✓
<b>Maximum Thickness:</b>	0.6" (15 mm.)	✓ ✓
<b>Scan Width:</b>	54" (1372 mm.), <b>Scan Length:</b> not limited by scanner	✓ ✓
<b>Digital Image Processing embedded in hardware:</b>	Dual 2D-Adaptive Enhancement Dual 2D-Adaptive Gray ADL+ Error Diffusion Halftoning 2D-Sharpener, 2D-Softening and 2D-Blur Filter Color Feature Extraction 2D-Adaptive Thresholding	✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓
<b>Scan Modes:</b>	24-bit color 8-bit Feature extraction/Indexed color 8-bit Graytone Copy modes with grayshades 1-bit black-and-white B/W Dual 2D-Adaptive Modes	✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓
<b>Color Adjustment:</b>	3x3 matrix multiplier Independent RGB tone curves (Gamma) Independent black-and-white point setting	✓ ✓ ✓ ✓ ✓ ✓
<b>Color Space:</b>	NTSC sRGB	✓ ✓ ✓ ✓
<b>3C Auto-Maintenance System:</b>	Auto-alignment to fraction of a pixel Auto-stitching to fraction of a pixel Basic calibration Precision Color calibration Auto monitoring and correction (stitching, black-and-white point)	✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓
<b>Sensors:</b>	Quadruple 4-linear CCDs (RGB triplets+Panchromatic BW) 30,000 pixels 42 bits of color data capture 14 bits graytone data capture All-Digital cameras	✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓
<b>One Touch Scanning:</b>	Scan Copy Email	✓ ✓ ✓ ✓ ✓ ✓
<b>Advanced Power Manager:</b>	Temperature control Low power mode Programmable power up timer	✓ ✓ ✓ ✓ ✓ ✓
<b>All-Wheel-Drive:</b>	Contour adjustment Broad precision rollers	✓ ✓ ✓ ✓
<b>Automatic Thickness Adjustment Control (ATAC)</b>	Optimal grip of guide plate on variable thickness dimensions (up to 0.6") Built-in roller axel pressure sensors ATAC button on operators panel	✓ ✓ ✓ ✓ ✓ ✓
<b>Light Source:</b>	Color matched fluorescent lamps – Color Rendering Index (CRI) > 95	✓ ✓
<b>Optics:</b>	Torsion stabilized for portability	✓ ✓
<b>Interface:</b>	FireWire Ultrafast SCSI STI (Still Image Interface) support	✓ ✓ ✓ ✓ ✓ ✓
<b>Dimensions:</b>	66.1" wide x 7.3" high x 18.3" deep (1680 x 185 x 465 mm.), <b>Weight:</b> 70 kg	✓ ✓
<b>Power:</b>	110/220/240V, 60/50c/s, 180W	✓ ✓
<b>Interface board (Included)</b>		✓ ✓
<b>WIDeSystem Kit (Included):</b>	Drivers, NET server/client, Maintenance software, Maintenance sheet	✓ ✓
<b>Copy Software (Optional):</b>	JETImage <sup>NET</sup>	✓ ✓
<b>Scan Software (Optional):</b>	WIDeImage <sup>NET</sup>	✓ ✓
<b>Floor Stand (Optional):</b>	Includes document basket	✓ ✓
<b>Thick Media Support Table (Optional):</b>	Floor stand required	✓ ✓
<b>Host Platforms:</b>	Windows 98, 98SE, ME, NT4, 2000, XP with SCSI Windows ME, 2000, XP with FireWire Power Macintosh	✓ ✓ ✓ ✓ ✓ ✓

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### Contex Scanning Technology

2 Svanevang Tel: +45 48 14 11 22  
DK-3450 Alleroed, Denmark Fax: +45 48 14 01 22  
3200 Inland Empire Blvd., Suite 160 Tel: +1 (909) 466-4006  
Ontario, CA 91764, USA Fax: +1 (909) 466-4206  
info@contex.com www.contex.com

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SCANNING TECHNOLOGY

# MAGNUM XL 54

## WIDE FORMAT COLOR SCANNERS



### COPYING

- 3C Automatic Maintenance System
- Color matching to printer & media
- Advanced options for printing of grayshades
- Built-in Basic calibration – black-and-white points
- Built-in Precision Color calibration

### SCANNING

- Very wide imaging area - scans A0/E landscape formats
- Automatic Thick Media Adjustment Control (ATAC)
- Scans Thick Media – up to 0.6" (15mm.)
- Specially designed All-Wheel-Drive for guiding wide originals
- Fast color and monochrome scanning
- 42 bit color capture for photo-realistic vivid colors
- 14 bit graytone capture for perfect reproduction of grayshades
- Detachable glass-plate to bring down service costs.
- Flexible connectivity - FireWire Plug 'n' Play and SCSI
- Scan to PDF format option
- Scan to network, also across the internet

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SCANNING TECHNOLOGY

# MAGNUM XL 54

The Contex MAGNUM XL 54 wide-format color scanners incorporate the latest and best in imaging technology for high-quality full color scanning and copying of the largest formats. The scanner's 54" imaging area can handle color posters, architectural sketches, detailed maps, drawings and fine art from small to extra-large sizes.

High speed scanning, high resolutions, quality guide rollers and Automatic Thickness Adjustment Control (ATAC) are all combined in the MAGNUM XL 54 making it the perfect device for effective and reliable high-production scanning.

These state of the art scanners offer unlimited possibilities for professional imaging services, copy service providers, POP/Exhibit/Display companies, graphic professionals, Mapping, Architect and Engineer offices.

## High Scanning Speeds

The high performance of this scanner can effectively increase business productivity. A0/E-size documents can be inserted in landscape, saving time by scanning the document's shortest dimension. You can scan an A0/E-size color original at 400 dpi turbo in only 11 seconds and an A0/E-size monochrome original at 400 dpi turbo in only 4 seconds.

## Scanning Superiority

The powerful MAGNUM XL 54 scanner creates images in photorealistic colors, high-quality grayscale and crisp, clear black-and-white. Color is captured at 42 bits for maximum color precision, passing the best 24 bits of color data to the computer to enhance color fidelity. The MAGNUM XL 54 uses All-Digital cameras with advanced point-of-origin color capture and on-board digital conversion ensuring minimum noise and an extended dynamic range. Quality color matched fluorescent lamps ensure the market's highest standards for color correctness. Grayscale are captured at 14 bits for maximum precision, passing the best 8 bits of grayscale data to the computer. The scanner's unique four-linear CCD technology, with a special panchromatic line, ensures that no colors are lost when scanning monochrome.

## Accuracy Lens Enhancement Technology (ALE)

GIS professionals and other specialized vertical markets involved in Quality Assurance and Verification require a very high grade of precision stability in the scanned image with a well-defined maximum deviation of 0.1% or less. Most scanner manufacturers typically state a +0.1% accuracy between the two end-points of the scan line. Contex however, has taken scanning precision to new levels by developing patented technology. Accuracy Lens Enhancement Technology (ALE) electronically maintains precision across any two points of the scan line thus exceeding even the most rigid requirements in the industry today.

## Care for your original

For the MAGNUM XL 54 scanners, a new All-Wheel-Drive, has been designed to ensure Contex high standards for a perfectly straight scanning path with an optimal hold across the whole width of even very large documents. The new All-Wheel-Drive with contour adjustment and broad precision rollers ensures a perfectly straight scanning path without using unnecessary force so you avoid both image distortion and damage to your customer's fragile originals. Dual shared axles synchronize roller movement to ensure a straight and stable scan path. Suspension components apply pressure evenly across the whole width of the document for an optimal yet delicate hold. The new rollers and their soft-friction contact surface adds the final touch to a system that cares for your original and for your scan results.

## Scan Wide and Thick Originals with Automatic Thickness Adjustment Control (ATAC)

The MAGNUM XL 54 can scan up to 0.6-inch (15mm.) thick originals such as posters mounted on foamboards, gateboards etc. With the ability to take very wide originals – up to 56" (1420 mm.) and a scan width of 54", the MAGNUM XL 54 brings new opportunities to your business. The MAGNUM XL 54 is the market's only scanner with Automatic Thick-

ness Adjustment Control (ATAC), specially developed to make handling of large and bulky documents much easier. Inserting and scanning thick originals requires adjustment of the guide plate's height so it accommodates the thick original with the correct pressure and grip. The MAGNUM XL 54 does this for you. You just insert your thick original for scanning and press down the ATAC button that is conveniently placed on the scanner panel. Sensors in the scanner monitor the pressure the guide plate's rollers apply on the original's surface and position the guide plate at the optimal level. With ATAC technology, you are always ensured a perfect and even grip on any kind of original placed in the scanner.

## One Touch Scanning

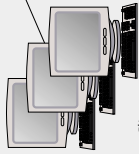
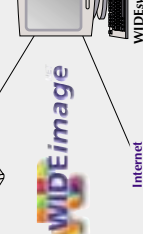
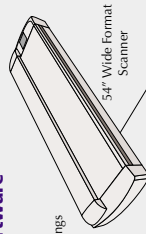
The MAGNUM XL 54 operator's panel is designed with convenient programmable action buttons for initiating common tasks directly from the scanner. Each button immediately activates a scan and opens the image in an appropriate application and format. The scanner comes with action buttons for scanning, copying and e-mailing loaded originals and can be reconfigured for other tasks.

## Image Enhancement Power

The MAGNUM XL 54 on-board real time color correction and 2D-filters for color sharpening, softening and blur provide superior results with a wide variety of input images. The MAGNUM XL 54 supports the latest in monochrome scanning technology with Dual 2D-Adaptive enhancement that works simultaneously on foreground, background, edges and other

## WIDEimage<sup>NET</sup> Scanning Software

- Pre-scan and preview.
- File format conversion.
- Scan-to-PDF with option for quality settings
- Total adjustment controls.
- Rotation & alignment.
- Precision measuring.
- Viewing and zooming.
- Batch scan.
- Fast viewer.
- Post-scanning imaging tools.
- Feature extraction editor.



## Scan 2 Net Architecture

### JETimage<sup>NET</sup> Copy Software

- Large-format copying in 5 easy steps.
- Standard presets for common tasks.
- WYSIWYG previewing.
- Real-time previewing of parameter adjustment.
- Collate copy.
- Touchscreen support.
- CMY, CMYK, CMYKcm support.
- Nesting, liting & paneling.
- Accounting.
- Scan to file.
- Scan-to-PDF with option for quality settings
- Print from file/fill lists.
- Copy on parallel printers.

### WIDEsystem<sup>NET</sup> Software

- Scanner status monitoring.
- Usage and maintenance times in log.
- Scanner timer setup for automatic power-up/power-down.
- Scanner device information – firmware, hardware revisions.
- Scan-to-net server setup.
- Scan-to-net client setup.
- Scan-to-net authorization setup.



individual aspects of the original so you produce clean, crisp scans even from poor quality drawings. Dual 2D-Adaptive processing is the only pixel level cleanup of its kind in the industry today. All processing is embedded in the hardware enabling you to perform powerful image enhancement without overhead and at speeds incomparable to standard software processing.

## Copying Made Easy

Connect the MAGNUM XL 54 scanner with a large-format printer and you get the perfect large format color and monochrome digital copier. With the scanner's high precision of details and colors, users can enlarge their creations to full display sizes without losing quality.

Use JETimage Copy Software with its Precision Color Management or other color RIP packages to achieve excellent color-matched output on large-format printers.

ADL+ error diffusion halftoning will copy your most demanding BW and graytone originals with all the shades of gray intact. The unique Contex Dual 2D-Adaptive Gray copy mode gives users clean, clear printed output by taking full advantage of the ink-jet printer's high resolutions. With JETimage you can print simultaneously on several printers and its straightforward touchscreen user interface and real-time preview

features provide the basis for building high performance copy systems for users with minimal computer skills.

## Flexible Connectivity

The MAGNUM XL 54 scanner lets you fit the connection to your immediate needs by offering two interface options - the highly efficient and convenient Plug and Play (PnP) FireWire connection and the industry standard SCSI interface. With the FireWire interface you can get your scanner running with plug-and-play ease while achieving optimal scanning speed. FireWire can accommodate 400 megabits per second, which is highly effective for high volume scanning of large formats. The standard SCSI connection can be used for computers without FireWire support.

Contex scanners protect your investment with support for STI (Still Image Interface) ensuring problem-free compatibility with current and future versions of Windows.

## Precision Color

A new wide format scanner comes calibrated from the factory, but as time goes by, components and lamps will change character and affect color output. With a Contex scanner, your investment is fully protected and you need not worry about degradation. The unique Precision Color system lets you calibrate in the field at any time ensuring stable and predictable color output. The MAGNUM XL 54 scanner is calibrated to both sRGB and NTSC color spaces using an ANSI IT8 calibration target. Furthermore, the Contex automatic black-and-white point monitoring allows users to get an optimal dynamic range of color fidelity tailored to the actual scanned original.

## Automatic Scanner Maintenance

The MAGNUM XL 54 scanner incorporates the Contex 3C Auto-Maintenance system that keeps your cameras perfectly aligned, adjusted and calibrated for optimal image quality. The process is automatic - just insert the maintenance sheet and click the wizard's start button. The 3C Auto-Maintenance system aligns and stitches your cameras to a fraction of a pixel giving the highest wide format image precision available. Back-Calibration sets black-and-white points on each individual pixel and ensures linearity in both highlight and shadow areas giving noise-free and stable scans at all resolutions. Precision Color calibration completes the 3C Auto-maintenance system process.

Once the scanner has been fine-tuned, it performs a number of basic tasks on its own, removing those tedious chores required with other scanner systems. Using patented Contex technology, camera stitching and black-white-points are constantly monitored and corrected while your scanner is running. Contex scanners are designed to let you concentrate on your work and take optimal scanner performance for granted.

## Detachable glass-plate

A scratched or otherwise damaged glass plate can easily be removed and replaced on the MAGNUM XL 54, saving time and money on technical service. Removing and installing the glass-plate is a tool-free process.

## Advanced Power Management

Running with the right internal temperature is of utmost importance when doing high-quality scanning through sensitive CCDs. The MAGNUM XL 54 scanner has Advanced Power Management that rapidly brings the scanner to its optimal working temperature, after which the temperature is monitored and held at a minimum level ensuring low CCD noise. The Advanced Power Management system also lets users leave the scanner in low-power mode and program it to power up automatically before they arrive at work so the scanner is ready to scan right away.