

# Nova XP36 / Hawk-Eye Cx 36 Wide Format Color Scanner

The two Nova XP36 scanner models differ in performance. The BASE model can easily be upgraded with new features for future requirements through the Smart-Card Upgrade Kit.

Nova XP36 Wide Format Color Scanner Models		BASE	PLUS
<b>Maximum Resolution:</b>	(in dpi):	400	9600
<b>Optical Resolution:</b>	(in dpi):	200	200
<b>Scan Accuracy:</b>	0.1%+-1pixel	√	√
<b>Variable resolution setting:</b>	from 50 dpi in one dpi increments	√	√
<b>Scanning Speed inch/sec.:</b>	(400dpi turbo, 24-bit RGB)	0.3"/s	3.0"/s
	(400dpi turbo, 8-bit index)	1.5"/s	3.0"/s
	(400dpi turbo, Graytone and B/W)	10.0"/s	10.0"/s
<b>Media Maximum Width:</b>	44" (1118 mm)	√	√
<b>Maximum Thickness:</b>	0.47" (12 mm)	√	√
<b>Scan Width:</b>	36" (914 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>	Basic Calibration	√	√
	Precision Color Calibration	√	√
	Auto monitoring and correction (black-and-white point)	√	√
<b>Sensors:</b>	Single 4-linear CCD (RGB triplets+Panchromatic BW)	√	√
	7,500 pixels	√	√
	48 bits of color data capture	√	√
	16 bits of graytone data capture	√	√
	All digital camera	√	√
<b>One Touch Scanning:</b>	Scan	√	√
	Copy	√	√
	Email	√	√
<b>Advanced Power Management:</b>	Temperature Control	√	√
	Low Power Mode	√	√
	Programmable power up timer	√	√
<b>All-wheel-Drive:</b>	Precision Matched Rollers	√	√
	Gentle-feed control	√	√
<b>Light Source:</b>	Color matched fluorescent lamps Color Rendering Index (CRI)>95	√	√
<b>User Replaceable Parts:</b>	Glass plate, white background, lamp	√	√
<b>Optics:</b>	Torsion stabilized for portability	√	√
<b>Interface:</b>	FireWire	√	√
	USB 2	√	√
	STI (Still Image Interface) and WIA (Windows Image Acquisition) support	√	√
<b>Dimensions:</b>	57.8" wide x 6.9" high x 18.0" deep (1470 x 175 x 457 mm.) <b>Weight:</b> 40 kg	√	√
<b>Power:</b>	110/220/240V, 60/50 cs, 180W	√	√
<b>Interface Board (Included):</b>	FireWire	√	√
<b>WIDsystem Kit (Included):</b>	Drivers, NET server/client, Maintenance software, Maintenance Sheet	√	√
<b>Floor Stand (Optional):</b>	Includes document basket	√	√
<b>Host Platforms:</b>	Windows and Power Macintosh – See <a href="http://www.vidar.com">www.vidar.com</a> for supported OS with selected interface connection	√	√

# Nova XP36 / Hawk-Eye Cx 36



WIDE FORMAT COLOR SCANNER

## SCANNING

- Quality large format color and monochrome scanning at an affordable price
- Fast color and monochrome scanning
- 48 bit color capture for photo-realistic vivid colors
- 16 bit graytone capture for perfect reproduction of grayshades
- Advanced Image enhancement features
- All-wheel-Drive for effective grip and smooth feed
- Thick originals – up to 0.47"
- Replaceable parts to bring down service costs
- Flexible Plug 'n' Play connectivity - FireWire and USB2
- Scan to PDF format option
- Scan to network, also across the internet

## COPYING

- 3C Automatic Maintenance System
- Perfect reproduction of grayshades
- 2D-Sharpener/Softening/Blur
- Built-in Basic calibration – black-and-white points

# Nova XP36 / Hawk-Eye Cx 36 Wide Format Color Scanner



The new Nova XP36 scanner marks a whole new era in scanning technology. This scanner is the result of innovative and revolutionary design solutions making fast high quality monochrome scanning affordable for a whole new range of users. With the additional feature of color scanning you get a tool that covers many aspects of your scanning needs.

This scanner is the perfect solution for CAD and AEC professionals and copy service providers in large and small businesses.

## SCANNING SUPERIORITY

The effective Nova XP36 scanner creates images in photorealistic colors, high-quality grayscale and crisp, clear black-and-white. Color is captured at 48 bits for maximum color precision, passing the best 24 bits of color data to the computer to enhance color fidelity. The scanner uses an All-Digital camera 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. Graytones are captured at 16 bits for maximum precision, passing the best 8 bits of graytone 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.

The Nova XP36 can scan up to 0.47-inch (12 mm.) thick originals such as drawings and maps mounted on foamboards, gatorboards etc.

## ACCURACY LENS ENHANCEMENT TECHNOLOGY (ALE)

With this scanner, GIS professionals, CAD and other specialized markets get a very high grade of precision stability in the scanned image. VIDAR has taken scanning precision to new levels by developing patented Accuracy Lens Enhancement (ALE) technology that electronically maintains 0.1% +/- pixel precision across any two points of the scan line thus exceeding even the most rigid requirements in the industry today.

## ALL-WHEEL-DRIVE FOR EFFECTIVE GRIP AND SMOOTH FEED

The scanner's new All-wheel-Drive has been designed to ensure VIDAR high standards for a perfectly straight scanning path with an optimal hold across the whole width of even very large documents. Precision matched rollers make sure the document travels straight and true without distortion. The unique All-wheel drive technology delivers consistent contact and speed, ensuring that originals of almost any media type and condition feed smoothly every time. Maybe you have a very fragile document that you want to insert and extract into the scanner manually? With delicate-feed control you just raise the lid and watch the rollers lift, opening the drive pinch. Position your fragile document, close the lid, and now the document is safely engaged in the drive system.

## ONE TOUCH SCANNING

The Nova XP36 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 Nova XP36 contains advanced technology for color and monochrome enhancement. The patented B/W adaptive thresholding works simultaneously on foreground, background, edges and other individual aspects of the original so you produce clean, crisp scans even from poor quality drawings. 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 Nova XP36 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 a color RIP packages to achieve excellent color-matched output on large-format printers. Special monochrome copy modes, each fitted to specific original types are supported by the scanner's digital processing.

## FLEXIBLE CONNECTIVITY

The Nova XP36 scanner lets you fit the connection to your immediate needs by offering two efficient Plug and Play (PnP) interface options - FireWire and the industry standard USB 2. VIDAR 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. The unique Precision Color system lets you maintain perfect color results by harmonizing current scanning factors. You can calibrate in the field at any time, so you are always ensured stable and predictable color output.

## AUTOMATIC SCANNER MAINTENANCE

The Nova XP36 scanner incorporates the VIDAR 3C Auto-Maintenance system that keeps the camera perfectly tuned and calibrated for optimal image quality. The process is automatic - just insert the maintenance sheet and click the wizard's button to perform full camera calibration. Using patented technology, black-white-points are constantly monitored and corrected while your scanner is running letting you concentrate on your work and take optimal scanner performance for granted.

## FAST AND EASY REPLACEMENT OF VITAL SCANNER PARTS

Now users can perform quick, easy and tool-free replacement of vital scanner parts. After long-term use, renewing parts such as the glass plate, lamp and white background will refresh your scanner and ensure optimal scanning results. Your scanner system monitors the life-length of vital parts and will output a message when it's time to consider a replacement.

Part-replacement was once an expensive technician-only task but now you can save time and money on technical service and keep you're business up and running without costly delays. The scanner's open design lets you protect your investment by protecting your scanner from degradation.