

TechNova VioStar Platesetters

Specifications

The benefits of using VioStar in your workflow are compelling. Its quality and speed of output let you produce plates to meet the ever increasing demands of today's print shop. VioStar's simple and clever design, with remote diagnostics, ensures an extremely high level of reliability with minimum downtime. This will put you ahead of your competition in the quest to satisfy your customers' high expectations.

VioStar HP4, designed for the 2- and 4-up market, is supplied as either a manual load-unload or semiautomatic unload CTP engine. The plate is mounted on a flat table, correctly positioned in the 3-pin, touch sensitive, register system. The plate is clamped automatically and transferred to the high precision internal drum. Here it is exposed using VioStar HP4's advanced laser-optics system. The plate is retained in the clamp, in perfect register, while it is imaged at a resolution of 2540 dpi, at 6 mm per second. A B2 plate takes two minutes to image.

The VioStar HP4 system includes a high-spec workstation running a Torrent Level 3 PostScript RIP, with a full complement of software applications that enables rapid processing and output of jobs to the VioStar HP4. Using VioStar's **Barcode ID identification software**, which leaves a unique plate identification mark on the plate, users can easily retrieve jobs for output.

Key Benefits

Quality

VioStar's imaging quality is superb with its powerful 120mW violet laser. Its precise optical system is capable of imaging with screening resolutions of over 200 lpi, giving excellent results on plate.

Speed

The wait for plates is over with VioStar's high speed spinner, designed for fast imaging. Combined with easy plate handling, this enables VioStar to output up to 30 plates per hour, including plate load/unload time.

Reliability and Accuracy

VioStar uses a high precision internal drum and violet laser technology a combination proven to give the most reliable and consistently accurate imaging on metal plate.

Affordable Performance

The low cost of ownership and competitive return on investment of VioStar's H Series platesetters results in one of the most affordable CTP systems in the market.

Ease of Use

VioStar's plate management console software has been written specifically to make platemaking easy—it is so simple that anyone can use the system to produce plates quickly and reliably.

Versatility

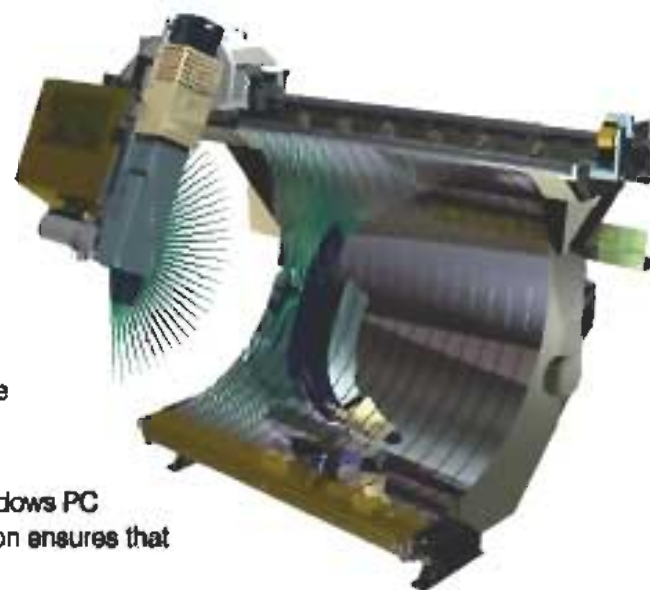
With its USB 2.0 interface, VioStar can be connected to any suitable Windows PC RIP that outputs 1-bit TIFF bitmaps. This fast industry standard connection ensures that VioStar is a truly "open" system.

Future Proof

VioStar is capable of imaging all silver and photopolymer violet plates currently in the market, to give a wide range of plate options both now and into the future.

VioStar HC8 is a manual load-unload CTP engine designed specifically for the B1/8-up commercial print market. It exposes violet metal plates at high resolution, using high precision internal drum imaging optics and a 120mW laser. The pre-punched plate is placed directly into the drum by the operator, and located in the U notch registration system. Vacuum is then applied to hold the plate in perfect register while it is imaged at a resolution of 2540 dpi (100 dppm) at a speed of 6mm per second. An 8-up B1 plate takes only three minutes to image, regardless of content.

The VioStar HC8 system includes a high-spec workstation running a Torrent PS RIP, with a full complement of software applications that enables rapid processing and output of jobs to the VioStar HC8.



Laser type	Violet laser diode, 405 nm, 120 mW	Violet laser diode, 405nm, 120mW
Drum	200 mm radius, 180° Aluminium Alloy with hard anodised finish	270 mm radius, 180° aluminium alloy with hard anodised finish
Max plate	B2/4 up – 745 x 615 mm, 0.3 mm thick (29.4" x 24.2" x 0.012")	B1/8 up – 1080 x 850 mm, 0.3 mm thick (42.5" x 33.4" x 0.012")
Min plate	B3/2 up – 335 x 400 mm, 0.15 mm thick (13.2" x 15.8" x 0.006")	B3/2 up – 510 x 400 mm, 0.15 mm thick (20.1" x 15.76" x 0.006")
Grip edge	15 mm (.5") minimum at front edge of plate	15 mm (.6") minimum at front edge of plate
Image area	745 x 600 mm (29.4" x 23.6") maximum	1080 x 635 mm (42.5" x 32.8") maximum
Spot size	10 microns	10 microns
Resolution	2540 dpi	100 dppm, 2540 dpi
Repeatability	± 5 microns image to image; ± 25 microns plate to plate	± 5 microns image to image; ± 25 microns plate to plate
Imaging speed	6 mm per second, using 36,000 rpm single-facet spinner	6 mm per second, using 36,000 rpm single-facet spinner
Throughput	Up to 20 plates per hour B2/4-up; up to 25 plates per hour B3/2-up	Up to 16 8-up; 20 4-up and 28 2-up plates per hour
Plate handling	Manual load and unload or Manual load and semi-automatic unload model	Manual
Plate types	Violet sensitive aluminium plates Silver and Photopolymer	Violet sensitive aluminium plates – Silver and Photopolymer
Safe Light	Yellow safe light required for plate handling	Yellow safe light required for plate handling
Registration	3-pin touch sensitive registration with automatic clamp	U notch register system standard 780mm and 425mm; or U notch register system standard 830mm and 425mm
Approvals	CE certification: EN61000 for EMC include FCC part 15, EN60950 LVD	CE certification: EN61000 for EMC include FCC Rule CFR47, EN60950 LVD, MET-UL approval: IEC950/UL950
Dimensions	1410 x 1225 x 940 mm (w x h x d) - 4'8" x 4' x 3'	1725 x 1600 x 900 mm (w x h x d) - 68" x 63" x 35.6" (lid closed)
Weight	300 kg (engine and front-end PC), 410 kg (in single packing crate)	400 kg (engine and front-end PC),
Operating Environment	+15°C to +25°C, 20% to 80% relative humidity (non-condensing)	+15°C to +25°C, 10% to 50% relative humidity (non condensing)
Interface	Connection to PC via PCI bus Interface, with Windows 2000 driver	USB 2.0 connection to external Control PC
Platform	Pentium PC with Windows	External PC with Windows XP
Applications	Q2 Output Controller, Plate Management Software	Engine Control and Plate Management Software
File formats	Accepts 1-bit TIFF bitmap files, compressed formats CCITT Group 4, LZW and PackBits, PDF Application level includes all engine control and plate management software	Accepts 1-bit TIFF bitmap files, compressed formats CCITT Group 4, LZW and PackBits
Diagnostics	Remote diagnostics as standard	Remote diagnostics as standard
Job Archival	Writable CD ROM	Writable CD ROM
RIP	Torrent (Harlequin) L3 PostScript RIP, PDF 1.6 compliant	Torrent (Harlequin) PostScript 3 RIP, PDF 1.6 compliant
Tools	Barcode ID Plate Identification Mark	Barcode ID Plate Identification Mark

Workflow Options

- RIP : Simple imposition
HWRoom; TrapPro; JDF compatible
- Proofing : Pixe Proof ROOM solution
Torrent ProofReady
- Press Data : InkMonitor Light
InkMonitor Pro



About HighWater

HighWater Designs develops and markets digital integration and creative imaging products for the pre-press and related graphic arts industries. Established in the UK in 1987, the growth and success reflects the quality and integrity of its products. In January 2006, Printware LLC, now part of Vanguard Graphics International, acquired HighWater Designs Limited. HighWater Designs Limited, is now part of the Vanguard Graphics International group and continues to operate under the HighWater name.

About TechNova

TechNova is one of the world's largest manufacturers of digital & analog offset plates, chemicals, inkjet, laser and drafting media. Products include a full range of consumables for conventional and digital imaging systems for advertising, photography, medical imaging, signage, printing and packaging as well as textiles, engineering, architecture, geology and business graphics. Its overseas offices and distribution network market products to over 51 countries.

Product Portfolio

- **Digital & Photosensitive Plates** : Thermal, Violet, UV CtCP, PS +ve & -ve Aluminium Plates; Polyester Inkjet & Laser Plates.
- **Graphic Chemistry** : Conventional & Eco-friendly products for Processroom, Plateroom & Pressroom; Emulsions for Screen Printing.
- **Inkjet Media** : For Large Format & Desktop Printers. Matte & Photo Papers; Self-adhesive Labels; Frontlit & Backlit Vinyls for Signage; Canvas, Specialty & Artistic Media for Creative Expression; Overhead Transparencies; Polyester Plates & Clear Films for Offset Printing; Polyester Films for Commercial and Textile Screen Printing, Engineering Drawings, etc.
- **Laser Media** : Colour Laser and Multipurpose Papers, Films & Self-adhesive Labels; Polyester Plates and Clear Films for Offset and Screen Printing; Clear & Matte Films for CAD.
- **Diazo Media** : Clear & Matte Films for Textile Printing, Engineering Drawings, Offset Positives, etc.
- **Diazo Chemistry** : Coating Solutions & Intermediates for Offset Plates, Screen Stencils, etc.
- **CtP Platesetters** : Range of Violet Photopolymer Platesetters from FFEI, U.K. & HighWater, U.K.

Highlights

- Over 70% market share for each of its product groups in the Indian sub-continent.
- Technical collaboration with Agfa-Gevaert N. V. for the manufacture of Digital & Analog Offset Plates and Graphic Chemistry. Agfa is the world's largest Graphic Imaging Systems & Consumables manufacturer. (www.agfa.com)
- Recipient of the prestigious "GATF 1995 InterTech Technology Award" for innovating NovaDom Polyester Laser Plates.
- Recipient of the Davos-based World Economic Forum's "Top-performing, Global Growth Company Award" in 1997, as well as the "Technology Pioneer Award" in 2000.



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VIOLET PHOTOPOLYMER PLATESETTERS

FROM
HIGH WATER