

PlateRite News

Thermal Plate Recorder for Newspaper

CTP



The PlateRite News: Packed with remarkable new technology

Screen, the printing industry's top manufacturer of thermal CTP equipment, is proud to announce the release of the PlateRite News, a new thermal CTP unit for the newspaper industry. The PlateRite News uses the technology that has given the entire PlateRite series its reputation for superior quality, efficiency, stability and productivity so that it can even keep up with the demands of newspaper production, where time and reliability is always of the essence.

The PlateRite News uses a next-generation exposure head that features GLV™ technology. Screen has used this cutting-edge imaging technology to create a 512-channel exposure head that can image a plate at lightning speed. Thanks to its advanced exposure head, the PlateRite News can output up to 35 plates per hour, all with the precise halftone dots enabled by thermal imaging. The unit also features a variety of automated systems that support its high productivity while reducing the strain on operators.

Flexible enough for a variety of newspaper industry workflows, the PlateRite News is the ultimate thermal CTP for newspaper.

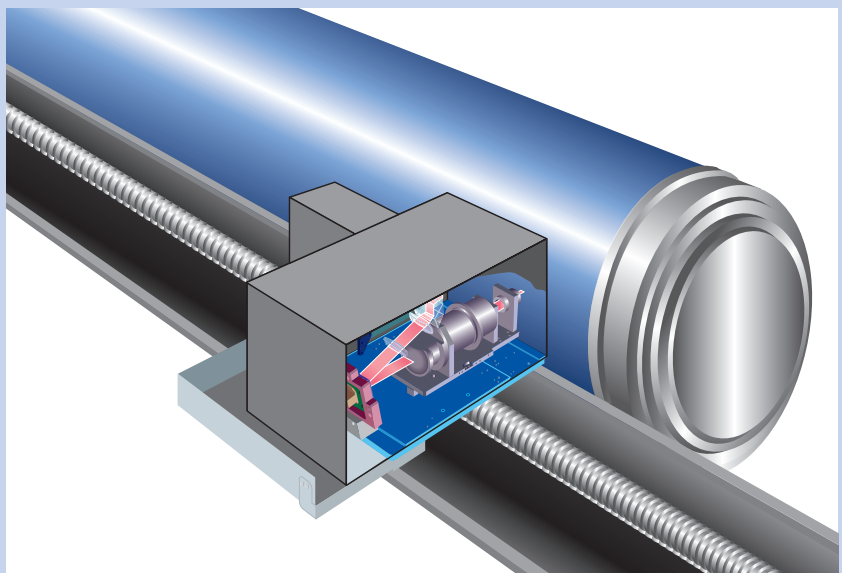


What is GLV™ (Grating Light Valve™)?

GLV™ technology features MEMS (micro-electro-mechanical systems) transmission and sensors, and is based around light sources that take advantage of semiconductor technology and light interference methods used in biotechnology. The GLV™ structure consists of an array of parallel ribbons on a semiconductor board, which diffract a single light source into multiple channels of light.

Screen has developed a 512-channel imaging head using GLV™ technology. This unique imaging head enables high-precision, high-speed imaging without requiring any reduction in rotation speed. The result is a remarkable jump in output productivity.

Grating Light valve™ and GLV™ are trademarks of Silicon Light Machines (headquartered in the United States).



Advanced Technology

Versatility and productivity

512-channel exposure head for dramatically higher productivity

The newest addition to the PlateRite 8-up thermal platesetter series, the PlateRite News for newspaper, features an exposure head with 512 laser diode channels. This head can image a wider swathe of the plate in a single rotation, enabling output of a remarkable 35 plates per hour at 1,200 dpi. The PlateRite News gives you the productivity of the future today!

Quality a cut above the already high standard for thermal platesetters

The PlateRite News's 512-channel bar laser features seamless construction that avoids the need to power down the laser beam, so imaging can be carried out efficiently and with no loss of precision. The unusually high number of channels – the highest in the world – enables remarkable productivity, without the need to change drum rotation rates. The high number of channels also makes it possible to create high-precision, extremely minute halftone dot forms. Thanks to its remarkable imaging head, the PlateRite News offers quality a notch above the already high quality users expect from thermal platesetters.

A variety of plate sizes

The PlateRite News is perfect for press rooms that use multiple plate sizes. It can output plates for most presses in the B3 to B1 range, with a minimum plate size of 345 x 370 mm (13.6" x 14.5") and a maximum plate size of 1,160 x 940 mm (45.6" x 37"), for plates ranging from 0.2 mm (8 mil) to 0.3 mm (12 mil) thick.

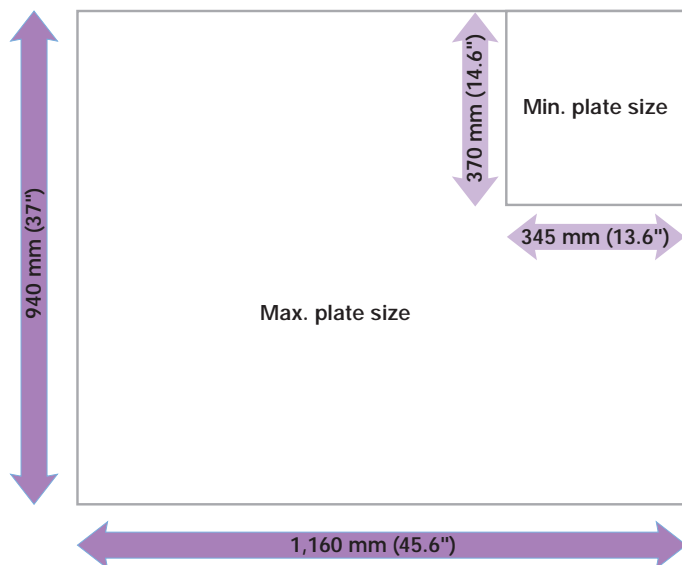
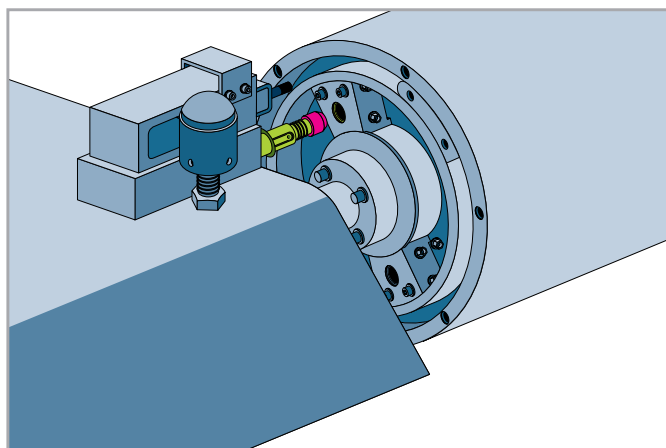


Plate auto-balancing takes the burden off operators

The PlateRite News's auto-balancing feature makes it possible to use different sized plates without making any manual adjustments for correct drum balance. The operator simply selects the desired type of plate, and the PlateRite News automatically makes the necessary adjustments to create perfect drum balance for each plate size. The PlateRite News also features separate loading and unloading bays, so that one plate can be readied for loading while another is being exposed.



Semi-automatic loading

Maximum productivity can be achieved with semi-automatic loading mechanism (standard), as well as with optional automatic loading.

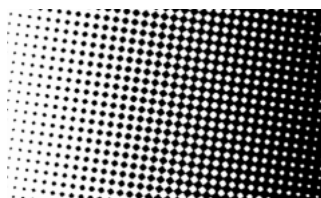
Automated CTP production line

The PlateRite News, which features Screen's reliable plate-handling technology, is the perfect core for a fully automated plate production line. Simply add the plate autoloader and a processor bridge to create a workflow that takes care of everything from plate loading to developing automatically. Once the plate cartridges are loaded into the autoloader, operators can focus on other tasks.

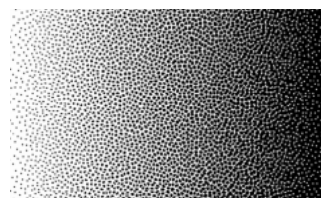
Support Spekta screening

The PlateRite News support Spekta screening. Spekta combines the strengths of both conventional AM screening methods and advanced FM (stochastic) screening. This makes it possible to produce extraordinary quality with ordinary screen rulings.

All the dots in Spekta screens are at least slightly randomized so that moiré and visible rosette patterns can never occur. And by applying FM screening methods to highlights and shadow areas, Spekta produces breathtaking detail and color completely free of jagged edges and broken lines. Spekta screening and the PlateRite News make an unbeatable combination.

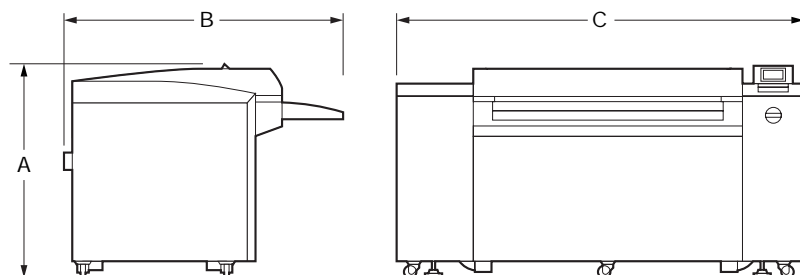


AM screening



Spekta

Space requirements



Dimensions

	A	B	C
mm	1,263	1,610	2,420
inches	49.7"	63.4"	95.2"

Specifications

Recording system	External drum
Light source	512-channel imaging head (with GLV™ technology)
Plate size*	Maximum 1,160 x 940 mm (45.6" x 37") Minimum 345 x 370 mm (13.6" x 14.6")
Exposure size	Maximum 1,160 x 931 mm (45.6" x 36.6") Minimum 345 x 360 mm (13.6" x 14.1")**
Media	Thermal (infrared sensitive) plates
Media thickness	0.2 to 0.3 mm (8 to 12 mil)
Resolutions	1,000/1,016/1,200/1,270 dpi
Repeatability	±10 microns***
Productivity	Max. 35 plates/hr at 1,200 dpi (890 x 600 mm/35.0" x 23.6" plates)****
Interface	Fast PIF
Plate transport	Semi-automatic loading (standard) / Fully-automatic loading (optional)
Punch systems (optional)	SCREEN, Heidelberg, Heidelberg-Bacher, Protocol, Komori, Stoesser, Grapho Metronic, others
Dimensions (W x D x H)	2,420 x 1,610 x 1,263 mm (95.2" x 63.4" x 49.7")
Weight	Approx. 1,150 kg (2,530 lbs.)
Environment	23°C ±2°C (73.4°F ±3.6°F), 50% to 70% relative humidity (non-condensing)
Power requirements	Single phase 200 to 240 V (+6% to -10%), 25.51 A, 5.08 kW*****

* Plate widths between 590 mm and 610 mm cannot be loaded.

** Length of exposure in circumferencial is shorter by 10mm from plate size in case plate width is shorter than 589mm.

Length of exposure in circumferencial is shorter by 9mm from plate size in case plate width is longer than 610mm.

*** Over four consecutive exposures on one plate at 23°C (73.4°F) and 60% relative humidity.

**** Output speed may vary depending on the sensitivity of the media and clamp size selection.

***** Includes power requirements of SA-L, MA-L, AT-T, and blower unit.

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- This brochure was made using SPEKTA screening.
- Printed on recycled paper.

We reserve the right to alter product design and specifications without prior notice.