

SCREEN

ADVANCING THE FUTURE OF PRINT

PlateRite Ultima 36000/24000

Thermal Plate Recorders

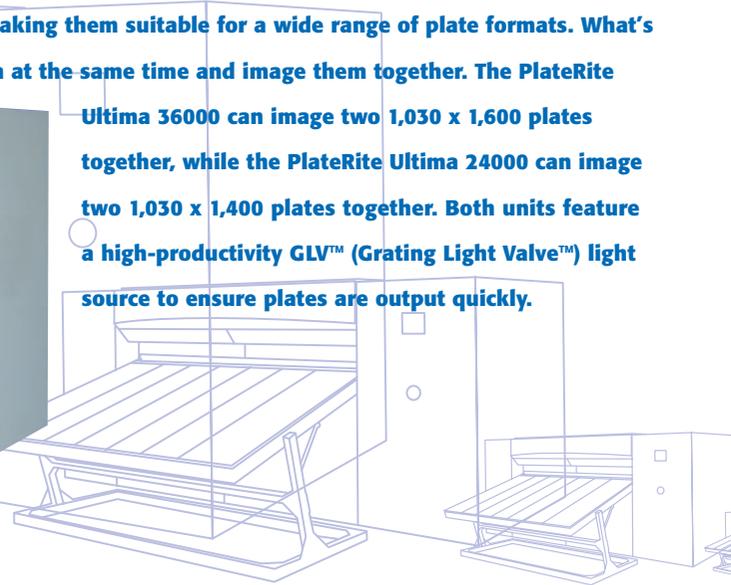
CTP



Advanced platesetters that offer superior productivity for large-format plates

SCREEN has dedicated itself to developing advanced technology that is a step ahead, so that we can consistently offer optimal solutions that streamline processing while improving productivity and quality. The crystallization of SCREEN's efforts in the CTP field is our latest large-format thermal platesetters, the PlateRite Ultima 36000 and PlateRite Ultima 24000. The PlateRite Ultima 36000 can output large-format plates up to 2,100 x 1,600 mm in size, while the PlateRite Ultima 24000 can output plates up to 1,750 x 1,400 mm. The minimum plate size for both units is 650 x 550 mm, making them suitable for a wide range of plate formats. What's more, both of these platesetters can load pairs of plates onto the drum at the same time and image them together. The PlateRite

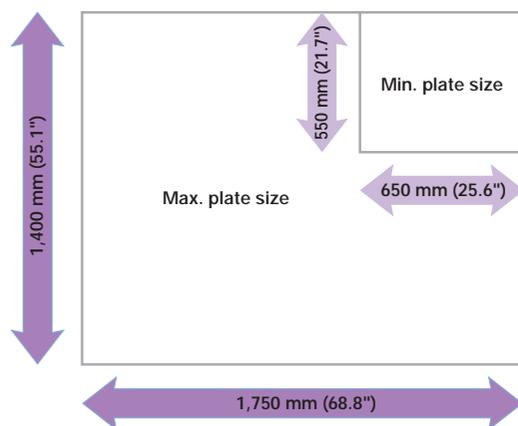
Ultima 36000 can image two 1,030 x 1,600 plates together, while the PlateRite Ultima 24000 can image two 1,030 x 1,400 plates together. Both units feature a high-productivity GLV™ (Grating Light Valve™) light source to ensure plates are output quickly.



Technology that enhances productivity

Large-format plate output

The PlateRite Ultima 36000 can output plates up to 2,100 mm x 1,600 mm, which is large enough to fit 36 A4-size pages comfortably. The PlateRite Ultima 24000 can output plates up to 1,750 mm x 1,400 mm, large enough to fit 24 A4-size pages comfortably. Both units can handle plates as small as 650 x 550 mm.

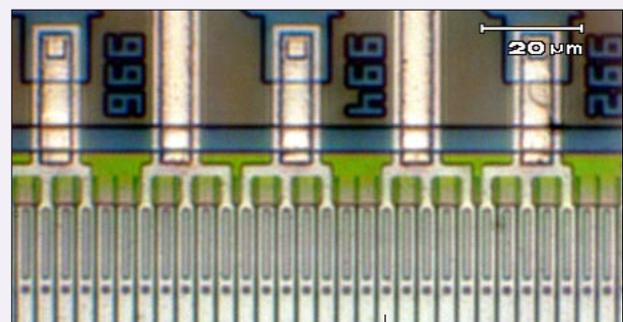


Advanced 512-channel imaging head

Screen has used GLV™ technology to develop a revolutionary multi-channel imaging head that enables remarkably high-speed and high-quality exposure. This cutting-edge imaging head features 512 individual laser beams that expose plates in wide swathes, enabling the PlateRite Ultima 24000 to deliver unbeatable throughput without sacrificing quality.

GLV™ imaging head with high-power laser

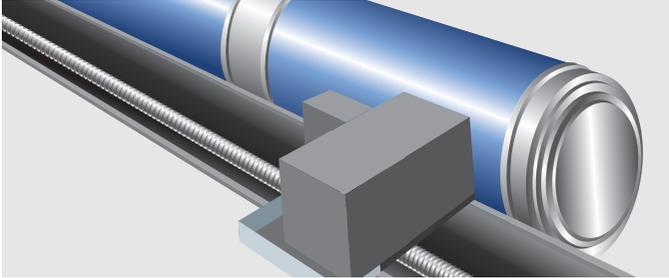
GLV™ (Grating Light Valve™) technology employs the same production processes as those used in semiconductor manufacturing. A GLV™ array is made up of thousands of microscopic reflective ribbons placed over a silicon chip. These ribbons can be moved up or down to either reflect or diffract the imaging laser that is targeted at the array, and thus simultaneously turn on and off an extremely high number of optical channels. Dainippon Screen utilizes the laser control technology that it has cultivated over the years to target a high-power laser at the GLV™ array with extremely high precision, making it possible to simultaneously control 512 channels of light. This dramatically increases the width of the area that can be imaged with each rotation of the drum and contributes to much higher productivity. The combination of a high-power laser and GLV™ technology delivers sharp, clear halftone dots, and is the core technology that makes it possible for the PlateRite Ultima 36000 and PlateRite Ultima 24000 to meet the stringent demands of SCREEN's clients.



Reflective ribbon (4 μm)

Dual plate imaging (option)

The advanced PlateRite Ultima large-format platesetters can image two plates together on the drum. The PlateRite Ultima 36000 can image two plates of 1,030 x 1,600 mm together, while the PlateRite Ultima 24000 can image two plates of 1,030 x 1,400 mm together. In other words, these platesetters are perfect for imaging not only large-format plates but also pairs of smaller plates together. Imaging pairs of plates increases productivity, since plates need to be loaded and unloaded fewer times. Twin imaging heads can be used to simultaneously expose the two plates side-by-side for even higher productivity.



Automatic inline plate punching for extremely high registration accuracy

The PlateRite Ultima 36000 and PlateRite Ultima 24000 feature an automatic inline punching system that helps enable perfect register on press. Plates are punched by the automatic inline punching system immediately before being loaded onto the drum. Since the plates are imaged with the punched holes in place on the drum's registration pins, plates can be positioned consistently, regardless of plate size and shape variations, which results in extremely high registration accuracy.

The addition of optional press punch blocks (up to 8 punch blocks can be mounted and selected according to plate size and press type) makes it possible for imaged plates to be loaded straight onto the press. This eliminates the need for additional manual adjustment and ensures high registration accuracy, creating the foundation for perfect results on press. Inline punching shortens press makeready time dramatically, and significantly improves the efficiency of the entire printing operation.

Automated plate loading for very large format plates

An automated plate loading system that supplies very large format (VLF) plates to the CTP engine constantly and reliably is the key to maintaining VLF CTP operations. The PlateRite Ultima 36000 and PlateRite Ultima 24000 feature a variety of proven and reliable plate loading technologies that ensure a constant and reliable plate supply to the CTP engine, including automatic interleaf paper removal.

Handling very large format plates is a tough job for any operator, and the efficient operation of the platemaking department can be compromised if plates are damaged during the loading of cassettes, or if plate loading takes too much time. The

PlateRite Ultima 36000 and PlateRite Ultima 24000's use of a proven system that has been highly successful with the PlateRite Ultima 32000, in which the plate cassette is slanted while the plates are loaded, enables easy plate loading and reduces the strain on the operator, while ensuring constant operation. An optional multi-cassette autoloader that is equipped with four plate cassettes enables automatic loading of up to 300 plates (75 0.3 mm thick plates per cassette). The PlateRite Ultima 24000 is also equipped with an automatic plate loading table that can be used to load plates into the platesetter one by one. The operator simply places the plate on the slanted loading table; the rest of the plate loading process takes place automatically.

Processor bridge supports a flexible choice of automatic inline plate processors

Screen's proven plate pick-up system eliminates the risk of damage to the sensitive emulsion side of the plates

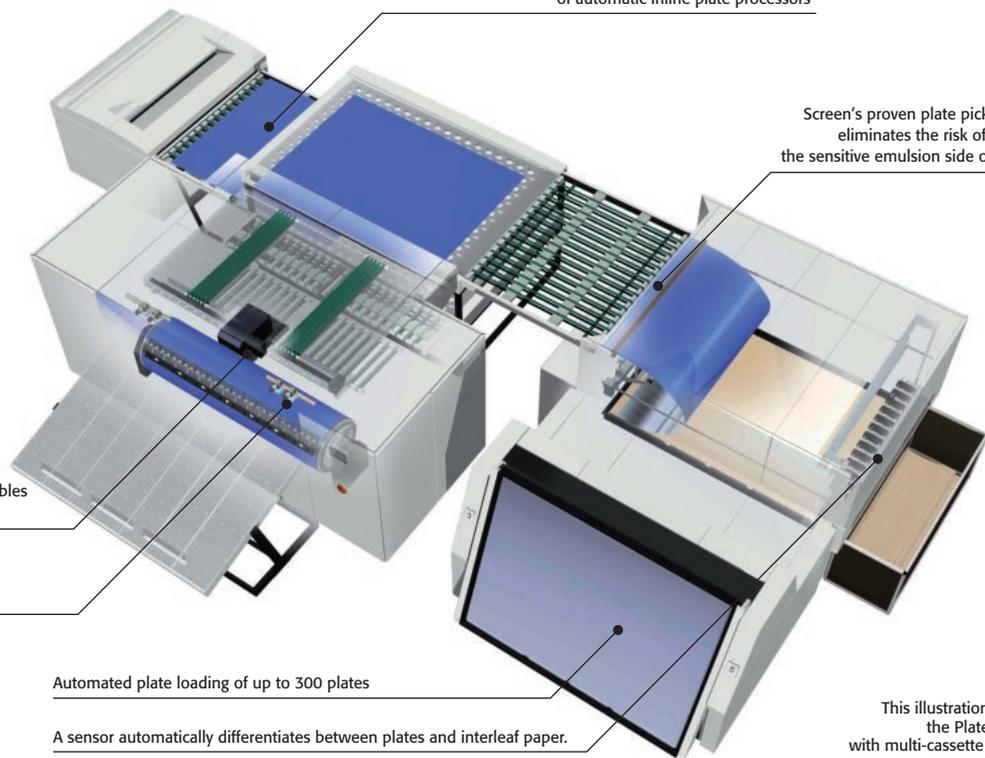
Advanced 512-channel GLV™ imaging head enables high-speed exposure of large-format plates

Automatic inline press punching system

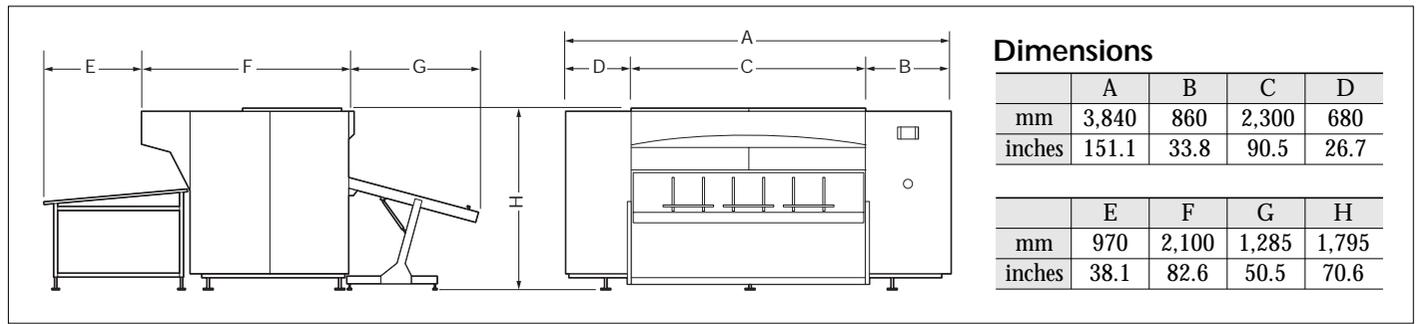
Automated plate loading of up to 300 plates

A sensor automatically differentiates between plates and interleaf paper.

This illustration represents the PlateRite Ultima with multi-cassette autoloader.



Space requirements



Dimensions

	A	B	C	D
mm	3,840	860	2,300	680
inches	151.1	33.8	90.5	26.7

	E	F	G	H
mm	970	2,100	1,285	1,795
inches	38.1	82.6	50.5	70.6

PlateRite Ultima 36000/24000 specifications

Product name	PT-R36000 (S/Z)	PT-R24000 (S/Z)
Recording system	External drum	
Light source	24000/36000 (Z series): 512 channel laser diode x 2 24000/36000 (S series): 512 channel laser diode	
Plate size	Maximum 2,100 x 1,600 mm (82.6" x 62.9") Minimum 650 x 550 mm (25.6" x 21.7")	Maximum 1,750 x 1,400 mm (68.8" x 55.1") Minimum 650 x 550 mm (25.6" x 21.7")
Imaging size	2,100 x 1,585 mm (82.6" x 62.4") [8 mm (0.3") leading edge and 7 mm (0.2") trailing edge]	1,750 x 1,385 mm (68.8" x 54.5") [8 mm (0.3") leading edge and 7 mm (0.2") trailing edge]
Dual plate capabilities*1	Maximum 1,030 x 1,600 mm (40.5" x 62.9") Minimum 650 x 550 mm (25.6" x 21.7")	Maximum 1,030 x 1,400 mm (40.5" x 55.1") Minimum 650 x 550 mm (25.6" x 21.7")
Media thickness*2	0.2 to 0.4 mm (7.9 to 15.7 mil)	
Media	Thermal plates	
Resolutions	1200, 2400, 2438, 2540 dpi	
Productivity	S series: 37 plates/hour (at 2400 dpi, 1,030 x 800 mm/40.5" x 31.4" plates)*3, 21 plates/hour (at 2400 dpi, 1,524 x 1,143 mm/60" x 45" plates), 19 plates/hour (36000 only) (at 2400 dpi, 2,032 x 1,270 mm/80" x 50" plates)	Z series: 58 plates/hour (at 2400 dpi, 1,030 x 800 mm/40.5" x 31.4" plates)*3, 34 plates/hour (at 2400 dpi, 1,016 x 800 mm/40" x 31.4" plates)*3, 29 plates/hour (36000 only) (at 2400 dpi, 2,032 x 1,270 mm/80" x 50" plates)
Punch systems	Standard punch	
Interface	S-PIF	
Dimensions*4 (W x D x H)	Main unit: 3,840 x 3,875 x 1,795 mm (151.2" x 152.6" x 70.7") Semiautomatic: 4,440 x 4,435 x 1,795 mm (174.9" x 174.7" x 70.7") Fully automatic: 7,920 x 4,610 x 1,850 mm (311.9" x 181.5" x 72.9")	Main unit: 3,840 x 3,675 x 1,795 mm (151.2" x 144.7" x 70.7") Semiautomatic: 4,440 x 4,235 x 1,795 mm (174.9" x 166.8" x 70.7") Fully automatic: 7,920 x 4,610 x 1,850 mm (311.9" x 181.5" x 72.9")
Weight*4	Main unit: 3,720 kg (8,201 lb) Semiautomatic: 4,250 kg (9,370 lb) Fully automatic: 6,700 kg (14,771 lb)	Main unit: 3,710 kg (8,179 lb) Semiautomatic: 4,240 kg (9,347 lb) Fully automatic: 6,700 kg (14,771 lb)
Power requirements	Main unit: Single phase 200 to 240 V +6%-10%, 35 A Cooler unit: Single phase 200 to 240 V +6%-10%, 3 kW, 15 A Blower unit: Single phase 200 to 240 V +6%-10%, 1 kW, 10 A	
Ground	To comply with local regulations	
Environment	Recommended: 21 to 25°C (69.8°F to 77°F); Required: 18 to 26°C (64.4°F to 78.7°F); Relative humidity: 40 to 70% (no-condensation)	
Standard accessories	Cooling unit, blower unit, manual plate loading table	

*1 There are differences between the suction gutter patterns in dual plate and single plate units. Single plate units cannot be used for dual plate output.

*2 When the 0.5 mm plate thickness factory option is selected, compatible plate thicknesses range from 0.3 to 0.5 mm.

*3 When using dual plate loading.

*4 Semiautomatic (standard). Standalone can be selected for S series only. Fully automatic operation is available as an option for all series.

Option	Model name	PT-R36000		PT-R24000	
		S	Z	S	Z
	Abrasion kit connection	○	○	○	○
	Printing punch blocks (HB, KM, DS, PC, etc.)	○	○	○	○
	SA-L right side connection*5	○	○	○	○
	MA-L right side connection*6	○	○	○	○
	AT-M	●	●	●	●
	Semiautomatic (one cartridge), plate discharge in one direction only	●	●	●	●
	Autoloader (two cartridges)*7	○	○	○	○
	Interrupt plate feed/removal panel	○	○	○	○
	Plate table	○	×	○	×

● : Standard, ○ : Available, × : Not available

*5 One cassette. Max. 75 plates, thickness 0.3 for the cassette (during double plate use, also max. 75 plates, thickness 0.3). Automatic interleaf removal. Interleaf disposal box included.

*6 Four cassettes. Max. 75 plates, thickness 0.3 for each cassette (during double plate use, also max. 75 plates, thickness 0.3). Automatic interleaf removal. Interleaf paper collection box included.

*7 The AT-M used when an autoloader is connected is a two-cartridge type with a conveyor that discharges plates in the opposite direction from the autoloader.

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