ScreenPRO 600

Industrial CTS (Computer-to-Screen) Imaging System

- Single, state of the art , quick change Ricoh Gen6 Printhead
- Optional industrial LED exposure system that works with ALL emulsions.
- Higher resolution than any of the competitors for superior image integrity.
- Starting at less than $43,000 the ScreenPRO600 is the best value on the market!

ScreenPRO 600 an industrial computer to screen (CTS) imaging system based on inkjet printing technology SP600 directly generates and exposes opaque images on emulsion - coated screens with UV-blocking ink so that users can Reduce the time and effort required for screen preparation. CTS technology eliminates the need to use, store and retrieve costly film, thereby reducing the overall cost of making the screen.

Utilizing the advantages of high-resolution inkjet technology, SP600 has the ability to print computer-to-screen images with richer details and smoother halftone transitions, which are superior to traditional film positives.

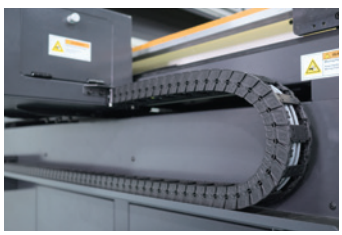
The imaged screens produced by SP600 are exposed with the optional on board exposure lamp. The specially-formulated UV-blocking ink also works well on nearly all emulsions in the market. All the benefits make SP600 easy to integrate into current screen-printing production lines. SP600 is an ideal choice for the screen-printing industry, especially for T-shirt printing, industrial decoration printing, as well as bottle & cup printing.

As an integrated CTS system, SP600 includes:

- Industrial Inkjet Printer
- Professional ColorPRINT Server RIP Software
- Print Production Screen Software (PPS)
- Printer Control Software (PCS)
- Specially-Formulated UV-Blocking Ink
- And the optional High output LED exposure system

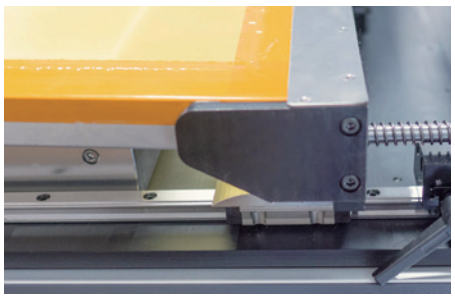
FEATURES

- Adjustable Frame Fixture provides fast setup for screen frames of various sizes, up to 25″ × 36″ (635 mm × 914.4 mm).
- The screen support module ensures perfect imaging and exposure.
- The Y-axis control system including the ball screw and AC servo motor provides smooth, fast and high accurate gantry movement.
- Based on the all-in-one design concept, the compact print head maintenance module allows automatic purging, wiping and capping.
- Silent linear guide and linear guide girder ensure precise printing, low noise, and long life.

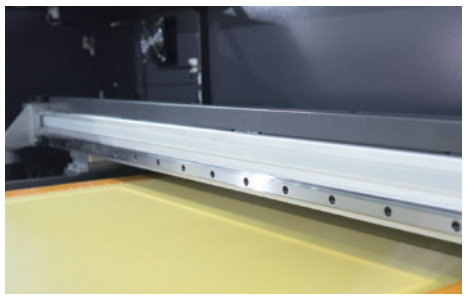


Shuttle Gantry Design

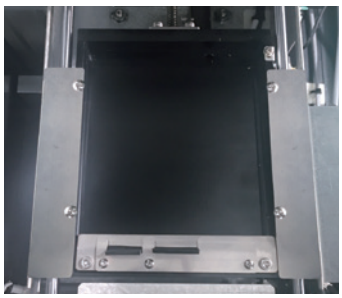
Locating Blocks and Pusher Frames



Adjustable Frame Fixture



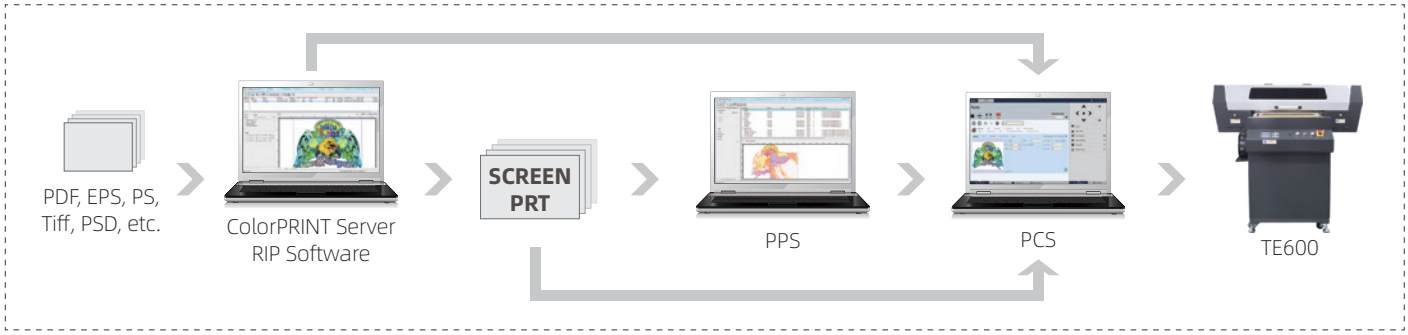
Silent Linear Guide and Linear Guide Girder



Print Head Maintenance Module

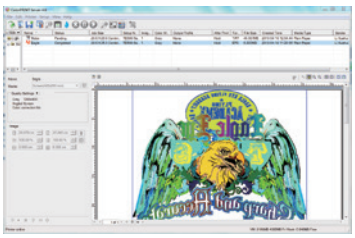
EFFICIENT WORKFLOW

SP600 integrates multiple advanced technologies, from RIP, .prt merging, job preview, to output production. The streamlined workflow enables users to achieve efficient, high-quality, and accurate screen production.

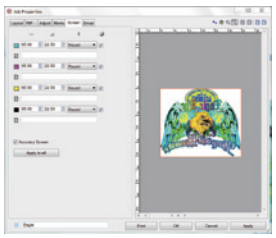


ColorPRINT RIP Software

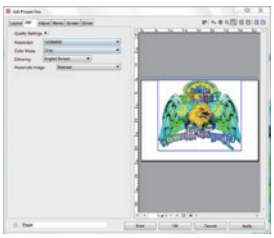
- Screen .prt file generation;
- Presets for job properties, such as frequency, angle, and halftone dot shape;
- Screen and image size settings; print quality settings.



ColorPRINT - Main Window



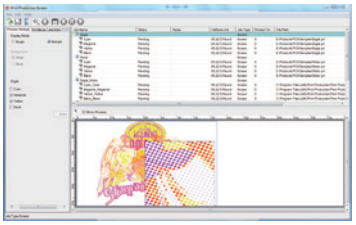
ColorPRINT - RIP Window



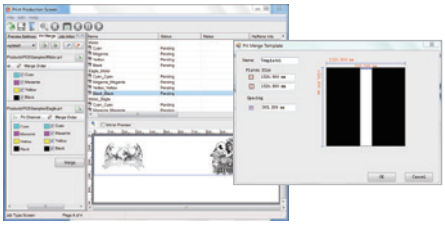
ColorPRINT - Screen Window

Print Production Screen Software (PPS)

- Various types of screen job previews, including different color channel previews, magnified dot previews, and mirror previews, help to carefully check the job before sending it to print.
- Two small-sized images as a group can be printed on a large emulsion-coated screen at one time to save materials and time.
- The merge job template can be flexibly defined to match the actual screen size and image size.
- With the Prt Merging function, it is helpful to obtain precise screen registration of multiple screens in the same job for the subsequent screen-printing process.
- If the emulsion type and exposure time are the same, the two color channel screens in different .prt jobs can be matched and merged for simultaneous printing.



PPS - Main Window



Template & Preview of the Merged Job

PCS - Main Window

Printer Control Software (PCS)

- User-friendly interface; interactive printer status monitoring; printer option settings
- Sending of control commands, such as print, abort, pause, resume and reset

SPECIFICATIONS

Print Technology	DOD piezoelectric inkjet print technology
Print Head	1 600DPI Ricoh GEN6 piezo print head
Print Resolution (Recommended)	1440 × 1200 dpi
Print Head Control	Automatic voltage and temperature control Variable droplet size control for grayscale printing Automatic print head maintenance
Ink	Color: Black, UV blocking Ink tank volume: 1.0 L Ink supply system: Automatic Ink Supply System; Negative Pressure System; Positive Pressure System
Software	ColorPRINT Server RIP Software Print Production Screen Software (PPS) Printer Control Software (PCS)
File Formats	Popular file formats, including PDF, EPS, PS, TIFF, PSD, etc.
Operating Environment	Temperature: 16-28°C (61-82°F) Relative humidity: 40-60% (Recommended) Altitude: up to 1000 m (3281ft) Light: Yellow/ Dark room
Power Requirements	Single phase 220V±10% (50/ 60Hz, AC); 10 Amps Maximum; 1000 W
Maximum Image Size (W × D)	20″ × 26″ (508 mm × 660.4 mm)
Maximum Screen Frame Profile	2" (50.8 mm)
Maximum Screen Frame Size (W × D)	25″ × 36″ (635 mm × 914.4 mm)
Dimensions (W × D × H)	59.8″ × 66.9″ × 53.1″ (1520 mm × 1700 mm × 1350 mm)

PRINT PRODUCTIVITY

Print Head Model	Image Size	Print Resolution	Exposure Mode	Color Mode	Productivity
600 DPI piezo print head	12" x 12" (304.8 x 304.8 mm	1440 × 1200 dpi	Print Only	Monochrome	41 sec.
		1440 × 1200 dpi	Print & Expose		55 sec *.

* Speed based upon SBQ Photopolymer emulsions, actual yield will be dependent upon specific emulsion used.

ADVANCED INKJET TECHNOLOGY

E-mail: sales@advinktec.com For more information, please visit **www.advinktec.com**

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