



CONSUMABLE COSTS

- Inkjet coated conventional aluminum plate typical European end user price is \$6.5/m² (0.15 mm), \$7.8/m² (0.30 mm) prices for non-European countries may vary
- **Ink** about \$0.3/m², depending on coverage
- Chemicals about \$0.2/m²

SYSTEM COST

- The system cost varies by country (shipping costs, customs, infrastructure), but it should be a fraction of a laser CTP price
- As a rule of thumb: the cost of the CTP unit is similar to the cost of the printer, while the RIP and the plate processor have lower cost
- Low budget customers with A3 presses and with existing plate exposure and processing facilities can start plate production with an initial investment of less than \$2500

INSTALLATION REQUIREMENTS

- **Power for CTP** 2 plugs of 230V, low current
- Power for the developer 1 plug of 230V/20A
- Water for the developer washing machine type 3/4" external thread, ideally warm (30-40°C)
- Drain for the developer 20 mm or wider, ideally at floor level, max. 40 cm height
- Network cable 100/1000 Mbps UTP (for access from workstations, optional)
- UPS & stabilizer not supplied, highly recommended if power peaks are possible

TECHNOLOGY

- Plate loading manual
- **Plate type** conventional positive UV-sensitive plate with extra inkjet coating, 0.15–0.30 mm
- Ink type water based UV-blocking dye and pigment inks
- Exposure 395 nm UV LEDs
- Processing steps
 pre-washing > processing > washing > drying
- Processing chemicals conventional place processor (e.g. Fuji HD-P1)
- Processing technology manual plate move, automatic maintenance of chemicals and water

SIZES & WEIGHTS

- CTP unit 143×107×122 cm, 160 kg (DTP 36) 117×107×122 cm, 140 kg (DTP 24) 68×60×50, 20 kg (DTP 17)
- Plate processor 45×125×97 cm, 130 kg (normal version) 45×138×110 cm, 140 kg (extra large version)

PLATE SIZE

• DTP 17

- width (head scan): 90 ... 432 mm height (media feed): 150 ... 800 mm
- DTP 24
 - width (head scan): 400 (opt. 250) ... 610 mm height (media feed): 365 ... 1030 mm
- DTP 36

width (head scan): 400 (opt. 250) ... 914 mm height (media feed): 365 ... 1030 mm

IMAGING QUALITY

- **Resolution** 2880×2880 dpi (commercial quality) and 1440×1440 dpi (newspaper quality)
- Line screen 30–175 lpi; max. 150 lpi for DTP 17 (recommended: 175 lpi; 150 lpi for DTP 17)
- Minimum dot size 35 μm
- **Registration accuracy** typically 0.025 mm, max. 0.1 mm (below A2) or 0.15 mm (above A2)
- Color accuracy typically ±1.5%, max. ±3%

SPEED (DTP 24/36 only)

- Newspaper quality 16 plates of 770×1030 mm per hour on 85 lpi
- Commercial quality 15 plates of 400×510 mm per hour on 175 lpi
- Maximum quality (extra banding suppression) 8 plates of 400×510 mm per hour on 175 lpi
- **Other sizes** proportional with the plate size

RIP

- **Software** StudioRIP XF Inkjet Edition (proofing option included), controllable from PC and Mac workstations. Trapping, ink duct control, imposition available as optional features.
- PC (DTP 24/36 only) 4 GB RAM, Intel N3150 Quad Core CPU, 500 GB HDD, 15.6", Full HD (1920×1080) capacitive touch monitor



DROPLET TO PLATE is a registered product of StudioRIP Srl

Ro407299 sat Viștea nr. 313, jud Cluj, Romania +40 722 998542 +40 0364 882320 sales@studiorip.com **www.studiorip.ro/en**

dealer stamp



MODELS

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- Epson SureColor T5200 inkjet printer
- StudioRIP XF Inkjet Edition with PC
- Full HD multi-touch monitor
- UV exposure
- positioning system (sensors & solenoids)
- plate storage
- semi-automatic plate processor unit (optional)
- up to 770×1030 mm plates
- 15 plates of A3 per hour in commercial printing mode (175 lpi)
- 16 plates of 770×1030 mm per hour in newspaper printing mode (85 lpi)
- can be used as CTF (films for screen printing or flexo), as contract proofer or as color printer

24" model | DTP 24



36" model | **DTP** 36



- Epson SureColor T3200 inkjet printer
 StudioRIP XF Inkjet Edition with PC
- Full HD multi-touch monitor
- UV exposure
- positioning system (sensors & solenoids)
- plate storage
- semi-automatic plate processor unit (optional)
- recommended for plates that fit into 610 mm in landscape mode (e.g. 525×459 mm)
- works with any plates with one side below 610 mm (e.g. 605×745 mm)
- 15 plates of A3 per hour in commercial printing mode (175 lpi)
- 25 plates of 605×745 mm per hour in newspaper printing mode (85 lpi)
- can be used as CTF (films for screen printing or flexo), as contract proofer or as color printer

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- Epson SureColor P800 inkjet printer
- StudioRIP XF Inkjet Edition license without PC
- No positioning system, no plate processor, no exposure unit
- works with plates with one side below 432 mm (e.g. 400×510 mm)
- 8 plates of A3 per hour in commercial printing mode (150 lpi), 25 plates of A3 per hour in newspaper printing mode (85 lpi)
- the halftone quality is good, but slightly below the quality of the DTP 24/36, limited to 150 lpi
- due to the lack of the positioning system, the press will need wider registration tolerance
- can be used as CTF (films for screen printing or flexo), as contract proofer or as color printer

17" model | **DTP 17**





inkjet coated conventional plates



The system works with StudioRIP DTP plates, which are conventional positive PS plates with a special inkjet coating. The coating is applied in the factory, the plates come in sealed boxes.

positioning and loading the plates

The plate is positioned precisely on the loading tray using the sensors and solenoids, then loaded into the printer.





The plate is exposed with low consumption UV LEDs, with a typical exposure time of 60–120 seconds.

washing and processing the plates



The result is a truly conventional plate – looks, feels and behaves as if it was made by a CTCP system. Differences, if any, only visible under a microscope. The job is printed with black ink on 2880×2880 dpi in about 4 minutes for an A3 plate, using 4 channels of the EPSON printer for the highest possible speed, featuring StudioRIP's patented Dynamic Density Modulation, Edge Enhancement and Ink Spread Compensation technologies.



The ink and the inkjet coating is washed off with running water, processed with conventional plate developer, washed again, then dried. The semiautomatic plate processor, connected to the running water, drain and power, takes care of keeping the water clean and the chemicals fresh.

