TRENDSETTER 400 UHR SPECIFICATIONS

Product description

The Kodak® Trendsetter® 400 UHR is a semiautomatic platesetter with a special high-resolution Kodak SQUARESpot® thermal imaging head capable of up to 12,800 dpi resolution. The Trendsetter 400 UHR is designed specifically for the security printing market (for example, currencies and bank notes). The Trendsetter UHR platesetter is sold by Jura Trade Ltd except in Japan, where it is sold directly by Kodak.

Features and benefits

- SQUARESpot thermal imaging head—12,800 dpi
- Temperature compensation
- Machine-to-machine accuracy
- Dynamic autofocus
- Semiautomatic media loading and unloading
- Automatic registration
- Automatic plate clamping
- Kodak Staccato® FM screening included with Kodak Brisque®, Kodak Prinergy®, and Kodak Prinergy Evo™ workflow software

Prerequisites

- Compliance with *Trendsetter UHR Site Preparation Guide* (707-00357)
- Kodak-approved workstation (contact sales representative for workstation options)
- Kodak Brisque, Kodak Prinergy, Kodak Prinergy Evo workflow system, or approved third-party workflow capable of supplying 1-bit TIFF files
- Processing line and other system peripherals must be of adequate performance in order to achieve full throughput. Consult with appropriate vendors to ensure sufficient performance can be achieved.

Components

Standard hardware:

- Plot engine
- SQUARESpot thermal imaging head—40 W, 12,800 dpi
- Debris removal system
- Semiautomatic media loader

Standard software: Staccato 20 Series Screen Sets

Documentation:

- *Trendsetter UHR Visual Reference Guide* (732-00141)
- *Trendsetter Output Devices Safety Guide* (761-00029)

Consumables included: Filters

Options

Optional software:

- Staccato 10 Series Screen sets available as an option with Brisque, Prinergy and Prinergy Evo workflows

Input

Media size (maximum/ minimum)	• Around-drum circumference: 838 mm (33 in.) maximum[1], 270 mm (10.6 in.) minimum • Along-drum axis: 990 mm (39 in.) maximum[1], 215 mm (8.5 in.) minimum
Media type	• Thermal IR-sensitive aluminum plate, 830 nm
Qualified media	• Kodak PTP positive thermal plate • Kodak Electra Excel thermal plate • Kodak TP-W positive thermal plate (up to 6400 dpi) (Japan only) • TORAY RG-5 thermal waterless plate (up to 6400 dpi) • For additional qualified media, contact your Kodak representative.
Media thickness	0.20 mm to 0.30 mm (0.008 in. to 0.012 in.)

Output

Non-imaged areas	6.1 mm (0.24 in.) along leading edge and 7.6 mm (0.30 in.) along trailing edge
Resolution	• 12,800 or 6400 or 3200 dpi • Maximum recommended line screen: 450 lpi • Staccato screen sets[2]: Staccato 20 Series included; Staccato 10 Series option available

Specific functions

Automatic registration:	• Media edge—registered horizontally to pins mounted on drum • Vertical edge located with precise optical sensing • Image size is adjusted automatically to compensate for plate thermal expansion and contraction.
Automatic clamping	Adjusts to any plate size (within the maximum and minimum allowed)

Performance

Imaging speed	• 41.74 mm per min. (1.64 in. per min.) @ 12,800 dpi • 104.34 mm per min. (4.11 in. per min.) @ 6400 and 3200 dpi
Throughput[3]	• 3 plates per hour @ 12,800 dpi • 7 plates per hour @ 6400 and 3200 dpi
Repeatability[4]	± 5 microns (± 0.2 mil) between two consecutive exposures on the same plate (at largest plate size and over full temperature range)

1. For portrait mounted media. For landscape mounted media, the maximum media size is 762 mm (30 in.) around-drum circumference and 838 mm (33 in.) along-drum axis.
2. Support for *Staccato* is limited to qualified plates; consult your Kodak representative for current qualification list.
3. Imaging time is based on 724-mm (28.5-in.) plate with a media sensitivity of 200 mJ per cm^2. Imaging time is dependent on media sensitivity.
4. Specifications are for metallic media only.

Accuracy[4]	± 20 microns (± 0.8 mil) between two plates imaged by different Trendsetters (at largest plate size and over full temperature range)
Registration[4]	± 25 microns (± 1.0 mil) between image and plate edge (at largest plate size and over full temperature range)
Environmental conditions	• 17º to 30ºC (63º to 86ºF) and 20% to 70% relative humidity, non-condensing • Prepress or platemaking environment • Some media may restrict the operating range of the platesetter system. Consult the media manufacturer for their recommended temperature and humidity ranges for plate operations and storage.
Electrical requirements	• Rating: 200–240 VAC, 15 A, 50/60 Hz, (dedicated single-phase branch circuit required, 20 A for NA and 16 A for EU) • Actual current draw while imaging 3.4 A, 0.790 kW
Noise emissions	The Trendsetter output device has been designed, tested, and evaluated for compliance with the maximum noise emission limit permitted for a light industrial environment—80 dB(A). Noise emissions from the Trendsetter output device will not exceed 74 dB(A) when tested in accordance with EN ISO 7779:2001, Acoustics - Measurement of airborne noise emitted by information technology and telecommunications equipment.
Compressed air requirements	370 liters per min. at 620-830 kPa (13 scfm @ 90-120 psig)
Equipment dimensions	• Width 2830 mm (111.4 in.) • Depth 1070 mm (42 in.) • Height 1600 mm (63 in.)
Equipment weight	• Trendsetter UHR platesetter 544 kg (1200 lb.) • Debris removal system (UDRC) 57kg (125 lb.)
Regulatory compliance	• ELECTRICAL/MECHANICAL: CSA 60950-1, UL 60950-1, EN 60950-1, EN 60204-1, Low Voltage Directive 73/23/EEC, Directive of Machinery 98/37/EC • LASER SAFETY: CDRH 21 CFR 1040.10, EN 60825-1 (Class 1 Laser Product) • EMC: FCC Part 15, (Class A), EN 55022/CISPR-22 (Class A), EN 55024, EN 61000-3-3, Directive of Electromagnetic Compatibility 2004/108/EC