

# MUTOH

Creation, we make it happen...

## zephyr TS

### Digital UV Inkjet Printer for Traffic Sign Production



Meets European standards for road traffic signs – certified solution

Up to 12 years warranty (UV durability - retro-reflectivity - colour boxes)

Quick turnaround and high flexibility thanks to digital workflow

Purpose-designed for printing directly on Nikkalite® retro-reflective sheeting

Optimized for dedicated Zephyr TS traffic sign UV inks (Blue, Red, Yellow, Black)

Unique High Gloss print modes meet reflectivity requirements and colour specifications

Unmatched image quality – greyscale inkjet head technology

Typical production speeds up to 28 m<sup>2</sup>/h



Mutoh's compact 65" (1651 mm) Zephyr TS roll-to-roll digital UV printer is the ideal partner for high quality production of road traffic signs, safety and information signs. Based on the successful Zephyr UV platform, Zephyr TS was developed in cooperation with Mutoh's strategic partner Nippon Carbide Industries b.v. for printing directly onto Nikkalite® retro-reflective sheeting, using Mutoh's specially formulated Zephyr UV traffic sign inks. The combination of printer, media, ink and UV protection overlay film fulfills the European standard for fixed vertical road traffic signs (EN-12899-1).

Traffic signs produced on a Zephyr TS have an outdoor durability of up to 12 years when laminated with the recommended Nikkalite® overlay film. Unique High Gloss print modes were specifically developed to immediately address the reflectivity and colour box specifications required for traffic sign production — a feature not available in competitive UV traffic sign printers.

Easy-to-use and delivered as a total solution (including workstation and RIP software), Zephyr TS significantly reduces production workflow steps compared with manual sign making methods. From one-offs and short runs to long run production, Mutoh's Zephyr TS successfully creates traffic signs with brilliant colours matching the colour boxes and retro-reflectivity, at attractive production speeds up to 28 m<sup>2</sup>/h (full width printing).

<b>Printer Specifications</b>	
Technology	Greyscale drop-on-demand micro piezo inkjet technology 4 x XaarJet 760 industrial print heads - Variable drop – 764 active nozzles/head - i <sup>2</sup> Intelligent Interweaving inside
UV lamps	Dual shuttered lamp system – user replaceable
Display	17" TFT Screen - User friendly Graphics User Interface - Microsoft® Windows XP Embedded operation system
Software / RIP	Zephyr TS comes with Mutoh Grip+, a full workflow RIP software solution. The software accepts raster data as well as PS & PDF data. It features intelligent automatic nesting, advanced tiling, preflight & multi-tasking, allowing to print & RIP while preparing other jobs.
<b>Media Specifications</b>	
Media Types + Warranty	<ul style="list-style-type: none"> <li>Nikkalite® EG 8112 (Enclosed type sheeting) + Nikkalite® overlay film : 7 years durability – EN-12899-1</li> <li>Nikkalite® ULS 812 (Encapsulated type sheeting) + Nikkalite® overlay film : 10 years durability - EN-12899-1</li> <li>Nikkalite® CRG 92802 Crystal Grade (Microprismatic sheeting) + Nikkalite® overlay film : up to 12 years durability - EN-12899-1</li> </ul>
Max. Media / Print Width	1651 mm (65") / 1625 mm (64")
Media Thickness / Diameter / Core	0.08 – 20 mm / 300 mm / 2" or 3"
Resolutions	720 x 720 dpi, 360 x 720 dpi, 360 x 360 dpi
Print Modes	<b>High Gloss</b> & Standard Zephyr UV print modes
Performance	High Gloss1 : 22 m <sup>2</sup> /h (printing width: 1223 mm / Nikkalite® media) High Gloss2 : 16 m <sup>2</sup> /h (printing width: 1223 mm / Nikkalite® media) Standard Zephyr UV print modes up to 45 m <sup>2</sup> /h (Full width printing)
<b>Ink Specifications</b>	
Colours	BRYK (Blue, Red, Yellow & Black) Zephyr UV Traffic Sign ink
Ink Capacity - Shelf Life	1 litre bottles - 12 months
<b>General Specifications</b>	
Print Engine Working Environment	Temperature: 18 – 28°C (Δt max 2 °C/h) Humidity: 40 – 65 % (no condensation - ΔRH max 5 % RH/h)
Power Requirements	230/400Vac 3F+N+PE 3x16A

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