Introducing the H and V-Series Printers!

from
Tharo Systems, Inc.

No other printers will be able to compare!

They are simply the best price versus performance printers available!

H-426 and H-434 POWER, PRECISION, PRICE....

- Durable, all metal construction with large media window for easy viewing and monitoring of remaining supplies.

- Standard Stripper Sensor to sense printed labels in either strip-and-peel or tear-off applications.

- The thin film printhead provides high quality output, even with stepladder bar codes, in either 203 (H-426) or 300 (H-434) DPI.

- The THARO H-426 and H-434 printers are extremely versatile. No PC is necessary. Download your label formats to flash memory, unplug the printer, plug in a standard PC keyboard and take it to another location.

- A 450m ribbon capacity and a full 8 inch label roll capacity are suitable for large volume printing requirements.

- Designed to accept ribbon types of both ink inside and ink outside, providing more flexibility in ribbon type selections.

- Built-in USB is standard for high-speed data transfer from your PC.

- Standard Real-Time Clock for time and date stamping of labels.

ACCESSORIES

- The THARO H-426 and H-434 printer options include a cutter (with catch tray), internal rewind, stand-alone keyboard and an additional 2MB of Flash memory.

- The THARO V-426 printer options include a cutter, an internal Ethernet card, a Stripper module to sense printed labels in strip-and-peel applications and a 2MB Flash Expansion with Real-Time Clock.

SOFTWARE

Each H and V-Series printer comes with an Accessory CD that contains documentation and all the software required to start printing labels.

- A free copy of the **EASYLABEL**® Start labeling package.

- Windows drivers for Windows 95, 98, ME, NT 4, 2000, and XP.

- The printer's User Manual.

- The THARO Programming Language Manual with examples.

PRINTER AND PRINTHEAD WARRANTY

- The H and V-Series feature a 3 month or 2 million linear inch warranty on their printheads.

- 12 month warranty on the H and V-Series printers.

V-426 VALUE AND VERSATILITY IN A COMPACT DESIGN!

- The V-426 features a small footprint to fit your work environment.

- Direct Thermal and Thermal Transfer modes are both standard on the V-426 giving you the option to choose.

- Durable, impact resistant composite construction with media window for easy viewing and monitoring of remaining supplies.

- The thin film printhead provides high quality output, even with stepladder bar codes, in 203 DPI.

- The V-Series is extremely easy to service and install options and accessories.

- A 300m ribbon capacity and a 5 inch label roll capacity gives you the benefit of less downtime and increased production.

- Built-in USB is standard for high-speed data transfer from your PC.

- Optional internal Ethernet adaptor card to provide networking capability.

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OVER 20 YEARS IN BAR CODE LABELING

Technical Specifications

Model	THARO H–426/H-434	THARO V-426
Resolution	**H-426:** 8 dots/mm (203dpi) **H-434:** 12 dots/mm (300dpi)	**V-426:** 8 dots/mm (203dpi)
Print Mode	Thermal Transfer/Direct Thermal	Thermal Transfer/Direct Thermal
Sensor Location	Moveable, left aligned	Moveable, center aligned
Sensor Type	Reflective, Transmissive	
Sensor Detection	Type: Label gap and black mark sensing Detection: Label length auto sensing and/or program command setting	
Print Speed	**H-426:** 50.8mm (2″)~152.4mm (6″)/sec **H-434:** 50.8mm (2″)~101.6mm (4″)/sec	**V-426:** 50.8mm (2″)~152.4mm (6″)/sec
Print Length	**H-426:** 5mm (0.20″)~1270mm (50″) **H-434:** 5mm (0.20″)~558.8mm (22″)	**V-426:** 12mm (0.47″)~1727mm (68″)
Print Width	**H-426:** 5mm (0.20″)~104mm (4.09″) **H-434:** 5mm (0.20″)~105mm (4.13″)	**V-426:** 25mm (1″)~104mm (4.09″)
Media	Label Roll: Max. 203mm (8″) O.D. Core Diameter: 38.1mm (1.6″)~76.2mm (3″) Width: 25.0mm (1″)~118.0mm (4.65″) Thickness: 0.06mm (0.002″)~0.25mm (0.009″)	Label Roll: Max. 127mm (5″) O.D. Core Diameter: 25mm (1″)~76.2mm (3″) Width: 25mm (1″)~118mm (4.65″) Thickness: 0.06mm (0.002″)~0.3mm (0.012″)

Ribbon	Material: Thermal Transfer ribbons
	        (wax, resin and wax/resin)
	Type: Ink inside or ink outside
	Length: 450m (1471′)
	Width: 30mm (1.18″)~110mm (4.33″)
	Inner Core Diameter: 25.4mm (1″)
	Ribbon Roll Diameter: 75mm (2.95″)
		Material: Thermal Transfer ribbons
		        (wax, resin and wax/resin)
		Type: Ink outside
		Length: 300m (981′)
		Width: 30mm (1.18″)~110mm (4.33″)
		Inner Core Diameter: 25.4mm (1″)
		Ribbon Roll Diameter: 64mm (2.52″)

Printer Language	TPL (Tharo Programming Language)	
Software	Application: **EASYLABEL**® Start Driver: Microsoft Windows 95, 98, ME, NT 4, 2000 and XP	
Resident Fonts	9 resident alphanumeric fonts (including OCR A & B) that are available in 4 orientations (0°, 90°, 180°, 270°), 8-point sizes (6, 8, 10, 12, 14, 18, 24, 30), and are expandable 8 times horizontally and vertically.	
Downloadable Fonts	Windows Bit-map fonts and Asian fonts are downloadable. Windows fonts in 4 orientations (0°, 90°, 180°, 270°). Asian fonts in 8 orientations.	
Image Handling	BMP and PCX	
Bar Codes	Code 39, Code 93, Code 128 (subset A, B, C), UCC 128, UPC A, UPC E, UPC 2 & 5 digit add on, I 2 of 5, EAN 8, EAN 13, EAN 2 & 5 digit add on, Codabar, Postnet, EAN 128, DUN 14, MaxiCode, PDF417, and DataMatrix Code	
Interfaces	Serial, Parallel, USB, PS/2 keyboard	Serial, Parallel, USB
Serial Interface Transmission Speed	Baud rate 4800 ~ 115200 XON/XOFF, DSR/DTR	Baud rate 4800 ~ 115200 XON/XOFF, DSR/DTR
Memory	Built-In: 2MB Flash, 2MB DRAM Optional: +2MB Flash	Built-In: 1MB Flash, 2MB DRAM Optional: +2MB Flash
Display	Backlit Graphic LCD Display Three bi-color LEDs: Power, Ready, Error Three Control keys: Feed, Pause, Cancel	Two bi-color LEDs: Ready and Status One Control key: Feed
Power	Auto Switching 110/240VAC, 50/60 Hz	
Real-Time Clock	Time and Date stamp	Optional Time and Date stamp
Environment	Operation: 5°C to 40°C (40°F to 104°F) Storage: -20°C to 50°C (-40°F to 122°F)	
Humidity	Operation: 30-85%, non-condensing. Free air. Storage: 10-90%, non-condensing. Free air.	
Agency Listings	CE, CUL, FCC Class A	
Printer Dimensions	Length: 454.58mm (17.9″) Height: 277.30mm (10.92″) Width: 275.55mm (10.85″) Weight: 13Kg (28.7lbs)	Length: 285mm (13.78″) Height: 171mm (6.7″) Width: 226mm (8.9″) Weight: 2.8Kg (6.2lbs)
Options	Cutter with Tray Internal Rewind 2MB Flash memory module Stand-alone keyboard	Cutter Module Stripper Sensor Module 2MB Flash Expansion + Real-Time Clock Internal Ethernet Adapter Card

Specifications are subject to change without notice.
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