

P102i

E-PASSPORT PERSONALIZATION PRINTER



THE SECURE CHOICE FOR YOUR TRAVEL DOCUMENTS

The P102i is a four-color high secure inkjet printer for machine readable travel documents dedicated especially for ePassport & Visa issuance, according to ICAO 9303 regulation. Based on OEM printing technology by Hewlett Packard, it can easily process ordinary and diplomatic passports with up to 100 pages. Other than the standard ICAO page with MRZ, each single page can get its individual printout and data for Visa, associated kids, observation page.

The versatile P102i offers a high speed printing engine with 4 long lasting ink tanks and includes all features required by issuance applications, perfectly fitting into government office environments.

TARGET MARKETS

- Government



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PRINTING SYSTEM - SPEED, RELIABILITY AND DURATION

The P102i is based on a high end OEM printing engine from HP, featuring dual 7/8" printing head and separate ink tanks for black and for each individual color. Both dye and pigmented inks can be used, where the most common combination is the black pigmented - perfect for MRZ and text printing - together with the CMY colors dye, that ensure perfect photo quality.

The ink cartridges are monitored by the software driver to avoid wrong printing and are very easy to replace, thus allowing the end users to do it. Every tank - black or color - has a very long shelf and on-board life time and is individually sold and available, to optimize usage in volume production, but also to ensure easier supplies management in remote locations. The P102i can print over 10.500 ICAO data pages with a single standard supplies kit.

The front operating panel with function keys and LED indicators supports a friendly user interaction, while the new cover is clean and rugged, still featuring a stylish design fitting space and most locations.

A full freedom of operating systems choices is ensured by drivers under 32 and 64 bit Windows XP, Vista and 7, provided by HP.

The P102i represents a very robust building block for any ink-jet passport issuance application.

HIGH SECURITY

With its high speed USB 2.0 connection the P102i Passport Printer can be connected to a document reader via PC. Due to this combination basic data can be automatically copied from a former passport or ID document. Printing is only possible after a successful verification of traveler's former document or legally issued application form.

OPTIONAL FEATURES

RFID READER & WRITER

The P102i Passport Printer comes with an optional ISO14443 Type A/B RFID Reader and Writer, to read and write data to a RFID chip according to ICAO recommendations. It is USB connected and has a PC/SC driver available for Microsoft Windows applications.

CAMERA SYSTEM

The Camera System enables to print holder's data to a pre-printed form. The camera can retrieve information such as passport number from the document.

TECHNICAL SPECIFICATIONS

Printing Technology

4 Color Thermal Ink-Jet Printing

Printing Resolution

Up to 4800 dpi

Printer Driver:

Windows 2000, XP, Vista, 7

Printer Language

HP PCL Level 3 Enhanced

Ink Cartridges

Cyan, Magenta, Yellow in 28 ml. individual tanks. Available with dye or pigmented inks.

Black in 66 ml. tank of pigmented ink (also available 66 ml. dye ink)

Printheads

Two separated long duration, replaceable printheads

Media - Machine Readable Passbook

Up to 100 Pages

Interface

High Speed USB 2.0

Dimensions & Weight

L x W x H: 50 x 47 x 22 cm

Weight: 23 kg

Power Consumption

2 W max. when off

4 W average when idle

200 W average when printing

Electrical Requirements

Power supply: 100 to 240 VAC (+/- 10%); 50/60 Hz (+/- 3 Hz)

Operating Environment

15°C to 35°C (59°F to 95°F)

20% to 80% RH

Storage Environment

-20°C to 70°C (-4°F to 158°F)

5% to 85% RH

Noise Level (ISO 9296)

5.3 B(A) Best Mode LwAd

39.6 db (A) Sound Pressure LpAm

Matica
SYSTEM

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CONSUMABLES TECHNICAL SPECIFICATION

Ink Cartridge Technical Specifications

Name	Average delivered Ink	Recommended operating conditions	Shipping and storage conditions
Black dye	69 ml	15 ° to 35°C 20% to 80% RH	15 ° to 35°C 20% to 80% RH
Black pigment	66 ml	15 ° to 35°C 20% to 80% RH	15 ° to 35°C 20% to 80% RH
Cyan dye	28 ml	15 ° to 35°C 20% to 80% RH	15 ° to 35°C 20% to 80% RH
Magenta dye	28 ml	15 ° to 35°C 20% to 80% RH	15 ° to 35°C 20% to 80% RH
Yellow dye	28 ml	15 ° to 35°C 20% to 80% RH	15 ° to 35°C 20% to 80% RH

Printhead Technical Specifications

Name	Resolution	Nozzle Count	Print swath	Max firing frequency	Average drop volume	Recommended operating conditions	Shipping and storage conditions
Black pigment/ yellow dye	1200 dpi	2112	7/8 inch (22,23 mm)	24 Hz	9 pl	15 ° to 35°C 20% to 80% RH	5 ° to 40°C 20% to 80% RH
Cyan/magenta dye	1200 dpi	2112	7/8 inch (22,23 mm)	24 Hz	6 pl	15 ° to 35°C 20% to 80% RH	5 ° to 40°C 20% to 80% RH

Warranty conditions

The warranty for consumables is 24 months from the production date, that applies to ink tanks, printheads and cartridges integrating both components. The expiration of the supplies is clearly printed on the box and/or sealed on the packaging and is also labeled or etched on the product itself.

Supplies Lifetime and Expiration

Warranty expiration is not "supply expiration": supplies are subject to degrade due to air ingestion, water evaporation and chemicals alteration over time. While warranty lasts 24 months from production date - and practices are that supplies are delivered with at least 12 months remaining - supplies lifetime is more than 4 years "on the shelf" and the in-printer life is maximum 30 months, that exceeds the normal usage of the vast majority of users.