Panasonic
ideas for life

2008/10

ePassport Reader
JT-P100

Preliminary

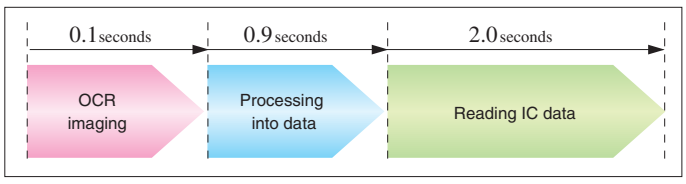
The new ultracompact ePassport Reader with proprietary technology for faster reading

In the world's smallest class configuration, the JT-P100 ePassport Reader includes color and IR/UV image capture and barcode reading capabilities. Its broad range of applications includes strict but efficient immigration control, aircraft boarding procedures, and hotel guest management.

Faster Reading

1-second for text, 2-seconds for IC data

Passport number and photograph are captured in 0.1 seconds, with processed data output, in approximately 1 second. IC data from Japanese passports is read in 2 seconds. Since conventional ePassport readers require PCs to process OCR and BAC*1 data, their processing time depends on PC performance. Panasonic ePassport Readers comes with embedded circuitry to handle OCR and BAC processing, eliminating the need for PCs and making them easier to install wherever needed.



Proprietary technology boosts reading speed

OCR and contactless IC reader modules were developed and manufactured exclusively by Panasonic optimize processing for faster reading speed.

*1: Basic Access Control as defined by ICAO. Protects privacy of IC data.

Rich array of capabilities

Comes with UV and IR image capture and 1 and 2-dimensional barcode reading capabilities to support a wider range of applications.

Compact & Simple Design

The world's smallest class, ePassport Reader

W200 x D190 x H127mm compact dimensions make it easy to install on even the narrowest counter. To reduce burden on operators, the reading surface height is only 115mm.

Accurate OCR even if passport positioning is sloppy

The passport can be held a few millimeters above the glass, held upside down, or skewed. Image angle and rotation are automatically adjusted to ensure accuracy.

Easy-to-use light-tight coverless design

Ordinary eMRP readers require an annoying cover to exclude ambient light. The wide dynamic range of the Panasonic sensor eliminates the need for a cover.

A wealth of experience and expertise

The IC reader module has been used in more than 200,000 installations. Its design reflects the depth of Panasonic expertise in the OCR and IC feature domains. Its advanced features allow it to read even passports that make not conform precisely to ICAO standards.

Faster and simpler to operate, the JT-P100 ePassport Reader improves service and reduces strain on systems

Function characteristics [Preliminary]		
Readable documents		ICAO recommendation Doc9303-1 conforming (TD3 size) ICAO recommendation Doc9303-3 conforming (TD1 size) MRV
OCR	Readable Characters	ISO 1073/1 OCR B font size 1, Numeric: 0.9 alphabet: A..Z (Capital letter) sign: <
	Detection of the document	Automatic detection or Manual key
	OCR processing time	1.0 Sec(Typ.), OCR imaging time is 0.1 Sec(Typ.)
	OCR accuracy	More than 98 % *Except dirty and damaged OCR
Image Sensor	Scanning Area Size	130mm x 92mm
	Resolution	240dpi
	Capture Mode	White Light (Color Image) UV (Ultra Violet)Light IR (Infra-Red)Light
Barcode		Code 39 (e.g. E/D card) QR code (e.g. E/D card) PDF417 (IATA BCBP boarding ticket)
IC Reader		ISO/IEC 14443 TypeA and B, 106, 212, 424, 847 kbps (Automatic speed adjust function according to communication quality analyses.) Data structure and read protocol: Comply to Doc 9303 Part1 6th Edition Basic Access Control (BAC), Active Authentication (AA), Passive Authentication (PA), *extendable in the future EAC V1.11 *extendable in the future
Key / Indicator		Key: Power SW, Manual read key, Status Indicator(LED): POWER / READY / ERROR / IC
Maintenance feature		Self-diagnostic function, able to tell diagnoses to connected PCs
Interface		USB 2.0 x 1, RS232C x 1
Operation environment		Operational temperature: 5 - 40 ˚C Humidity: 20 - 90 % (non condensing)
Power supply (AC power pack)		AC100V-240V 50/60 Hz
Weight		Less Than 2.3kg (excluding cables and power pack)
Dimensions		W200 x D190 x H127mm (approx.) Height of read position: 115mm (approx.)
Developer support package		SDK (Windows XP)

How Panasonic Approaches the MRP Reader

Development based on listening to what users say

In the 20 years since Panasonic began to supply immigration authorities with the world's first high-speed, camera-type passport image reader, we have worked to make our readers more accurate, faster, and easier to use, plus smaller and more portable as well. We listen carefully to what users say as we continue research and development on even better devices.

Participation in standardization projects

For more than a decade, Panasonic has participated numerous times in compatibility tests to ensure that ePassport readers satisfy international standards.

- Due to printing irregularities, actual shades may vary slightly from the photo.
- Specifications are subject to change without notice.
- These products may be subject to export control regulations.
- The content of the description of this catalog is the one as of June, 2008.

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Printed in Japan (M2-AT019)