

foster+freeman

PD

2000/FP

Ultra High Resolution Multi-Spectral Imaging of  
Passports and Questioned Documents



NEW updated design enables full open-page imaging



**PD**

**2000/FP**

Ultra-high resolution document imaging

Visible side light - Left



Incident longwave UV (365nm)



Full-page image of UK Passport

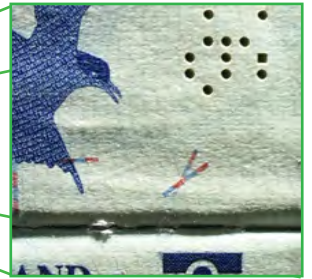
Diffused White Light



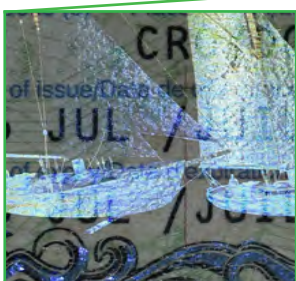
OVD Array



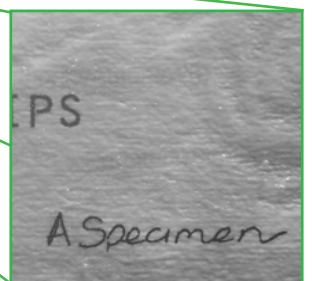
Visible side light - Right



OVD Array



IR Flood



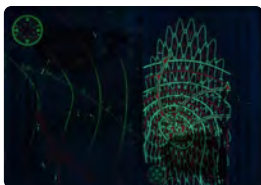
## Ultra-high resolution document imaging for the examination of fine detail

The new PD2000/FP is a unique imaging system capable of recording full-page images of passports with exceptionally high quality under a selection of illumination wavebands for on-the-spot examination, database creation, or with a single button press, transfer the images via the internet to an experienced document examiner for scrutiny in a remote location.

The fully integrated system includes a high quality digital camera, a selection of high intensity multi-spectral light sources, and PC with large high resolution monitor



IR Flood



Incident UV (365nm)

Full-page images of specimen UK Passport



Vis Side - Right



Vis Side - Left

PD

2000/FP

Ultra-high resolution document imaging



#### Example flow of data across a Wide Area Network

In this scenario, three PD2000 sites share passport images and data with a remote examiner equipped with a VSC8000.

All document information is recorded to and accessed from a single secure cloud database.

## Remote Document Examination

Once document images have been captured, they can be transmitted to any remote location where an experienced document examiner, with an appropriate system, can select any of the images, zoom in and scroll around the image at any magnification and with no loss of resolution for closer examination.

With the appropriate software, the remote examiner can display the questioned document image, side by side, with that of an authentic document retrieved from a database for close comparison.

The PD2000/FP enables officers at a border security post to engage the services of an experienced document examiner without the need to transport the document.

Remote Document Examination with the PD2000/FP saves time and improves border security.

PD

2000/FP

Ultra-high resolution document imaging

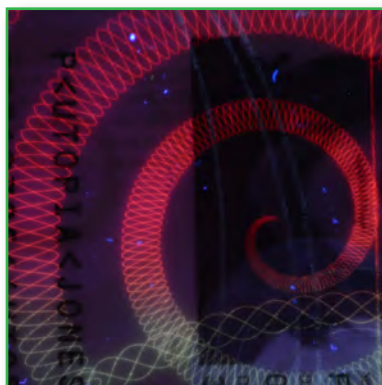


## Unsurpassed image quality

Above all else the PD2000/FP captures full-page images of travel and identity documents with exceptional clarity.

All images captured under the system's various wavelengths can be exported in a range of formats.

Images will retain excellent clarity even when displayed on a HD projector at many times the document's original size.



## UV-Vis-NIR illumination

The fully integrated system includes a selection of LED light sources enabling examinations of most advanced document security features including OVDs, Multiple Laser Images and IR drop-out inks.

### Light sources include:

- Visible and IR incident
- Visible transmitted
- Visible and IR side lights
- Incident longwave UV365nm
- Co-axial illumination
- Positionable light source array



## One button operation

The PD2000/FP software can be configured to capture multiple images and MRZ data from a document then save and upload the files to a remote server with a single button press.

This simple system allows users with little or no training to use the PD2000/FP whilst maintaining consistent quality and a high throughput.

MRZ data capture and image recording of the document under all light sources takes less than 25 seconds.

**PD****2000/FP**

Ultra-high resolution document imaging

The PD2000/FP system, operated via desktop or laptop computer, is a fully integrated solution for the high resolution imaging of documents.

## IMAGE CAPTURE

- 36.3MP image capture
- Full resolution images of 7360 x 4912px
- FX-format CMOS sensor
- High performance image processing
- Field-of-View, 177 x 125mm

## ILLUMINATION

- Infrared/visible
  - incident (flood) IR/visible
  - transmitted visible light source
  - IR/visible (left/right) LED side lighting
- Ultraviolet Light Sources
  - incident longwave UV (365nm)
- Specialist Light Sources
  - co-axial illumination
  - positionable 41 x LED array
  - diffused vertical visible (reduces holographic reflection)
  - diffused horizontal visible (reduces holographic reflection)

## SOFTWARE

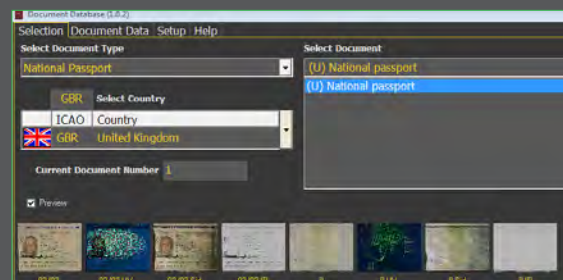
- Standard or 'One Button' modes of operation
- Live image view
- OCR module to read MRZ and verify ICAO codes
- 1D and 2D barcode analysis
- Capture, record and send images as JPEG or FFE (a new encrypted format that is unique to Foster + Freeman and improves image security)
- Auto-save, with case numbers, to local or network locations
- Integrated document database

## REMOTE DOCUMENT EXAMINATION



- Send high resolution images together with PD2000/FP imaging parameters via the internet for remote examination
- Examine PD2000/FP images using the Foster+Freeman VSC8000
- Magnify or zoom into images with no loss of resolution

## DOCUMENT DATABASE CREATION



- Database creation/management software
- Store PD2000/FP images, data and system settings to a user generated database
- Automatically resets PD2000/FP to saved viewing parameters on image retrieval from a database
- Share images, data and PD2000/FP settings with other users
- Compare live images alongside database files

Head Office & UK Sales Office:  
Foster + Freeman Ltd  
Vale Park, Evesham,  
Worcestershire, WR11 1TD UK

+44(0)1386 768050  
+44(0)1386 765351  
[sales@fosterfreeman.com](mailto:sales@fosterfreeman.com)

US Sales Office:  
Foster + Freeman USA Inc.  
46030 Manekin Plaza, Suite 170  
Sterling, VA 20166 USA

Tel: 888 445 5048  
Fax: 888 445 5049  
[usoffice@fosterfreeman.com](mailto:usoffice@fosterfreeman.com)

foster+freeman

[fosterfreeman.com](http://fosterfreeman.com)