

Fujitsu Document Scanners & EMC/Documentum ApplicationXtender technology overview webinar

Kevin Neal

Product Manager – Production Scanners
Fujitsu Computer Products of America, Inc.
Imaging Products Group (IPG)

October 18, 2006



Agenda

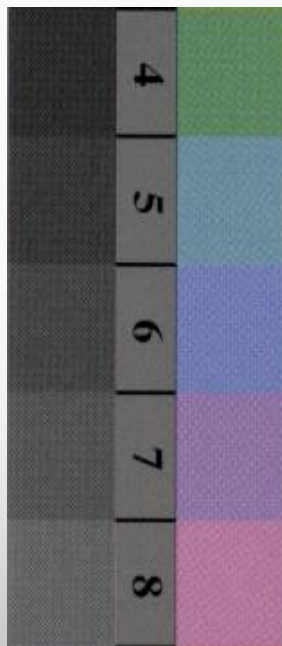


- Introductions
- Document scanner technology considerations
 - True optical resolution, camera technology, image enhancement
- Fujitsu Scanners
 - fi-5220C workgroup scanner 30ppm / 60ipm
 - fi-5650C low-volume production scanner 57ppm / 114ipm
 - fi-5900C mid-volume production scanner 100ppm / 200ipm
- EMC Documentum ApplicationXtender
 - ApplicationXtender Overview
 - Demonstration
- Fujitsu scanner and EMC Documentum Interpolation
- Questions and Answers

True Optical Resolution



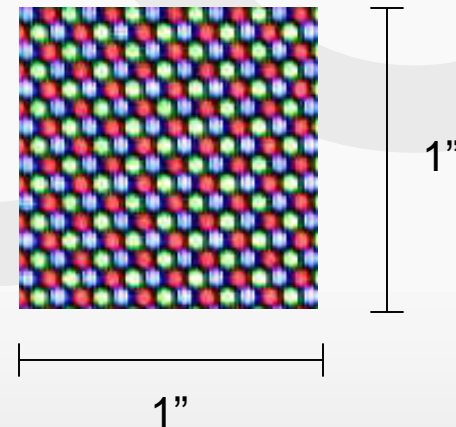
- Capture information at 600 dpi (dots per inch)
- No lost or approximated pixels
- Interpolation from lower resolution up to 600 dpi



Sample # 1

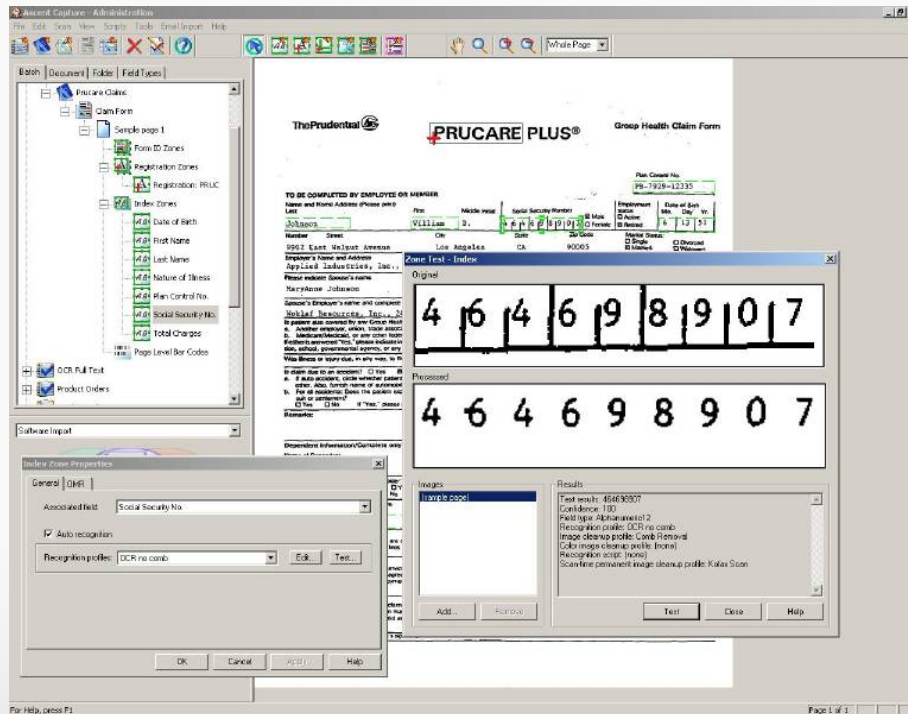


Sample # 2



Interpolation is taking the best guess at the shade of the pixel. The higher the True Optical Resolution the better the image quality.

Advanced Forms Processing



Don't cheat your users when considering image quality

Scanner straight paper path

- Paper picking
- Flat path over camera

True optical resolution

- 600 dots per inch
- Not interpolated

Charge-Couple Device (CCD)

- Preferred camera technology
- Bright, clear images



Optical Character Recognition



degree, a half hour of weekly schedule. Mel simple melodies as th develops a coordination able. These melodies r ment, but a chaplain's excellent advantage to

to be difficult f
d, explained, and
overcome by the
ned play the diff
increasing the

fficulty with som
to avoid undue l
nterest of all pla
l practice shoul
hich time passa

NO. While it is legible to the human eye, the quality is too poor for use as an archival master file. The characters are too pale and uneven to OCR properly.

Causes

Poor Camera Technology / Inadequate Lamp Brightness

NO. This scan is easier to read than the one above, but the characters have bled into one another and there is too much "noise", or interference like the black marks surrounding the text, to OCR the image.

Causes

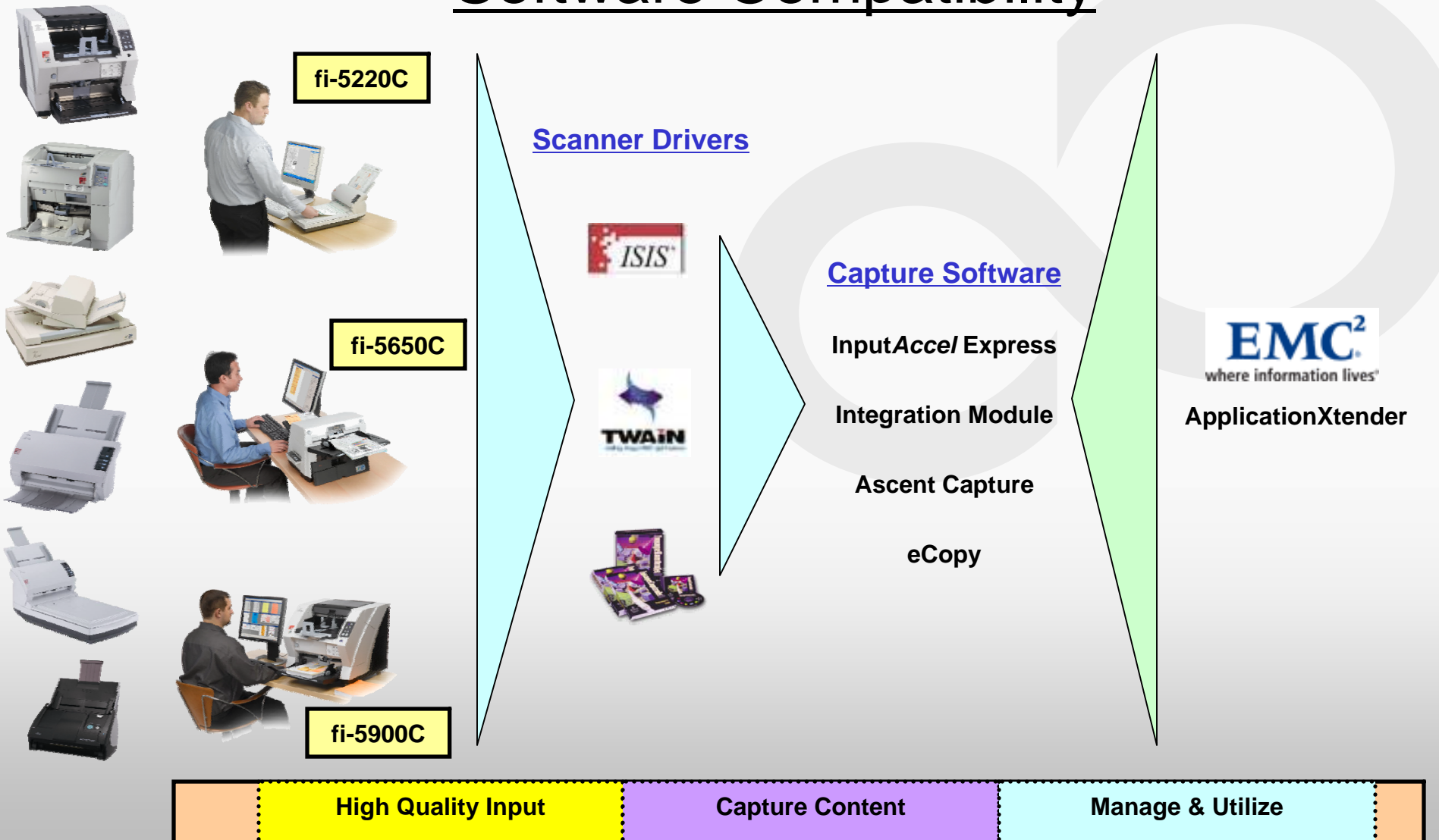
Lack of Image Processing / Inefficient Image Enhancement

YES. This scan is easily legible, looks like the original page, and will OCR without difficulty.

Resolutions

**High Quality Charge-Coupled Device (CCD) Cameras
Bright Light Source
Premier Image Processing Technology**

Software Compatibility



Fujitsu fi-5220C Workgroup Scanner

- Flatbed for Exception Documents
- Dual USB 2.0 & SCSI Interface
- #1 Workgroup Document Scanners



- Hard Card & Embossed Scanning
- Ultrasonic Double-Feed Detection
- 50 page Automatic Document Feeder



- Long Document Scanning
- Intuitive Control Panel
- User Replaceable Consumables





Fujitsu fi-5120C / fi-5220C Scanners

- 25 PPM / 50 IPM @ 200 DPI COLOR
- 24 PPM / 45 IPM @ 300 DPI MONO
- 24 PPM / 24 IPM @ 300 DPI COLOR

600dpi true
optical resolution

Embossed
Card
Scanning

Imprinter Option
on
fi-5120C only

50 Page ADF

A4 Flatbed

Dual Interface (USB 2.0 and Ultra SCSI)



Fujitsu fi-5650C Low-Volume Production Scanner

- High Production, Low Footprint
- Long Document Scanning
- Dual Interface, USB 2.0 & SCSI



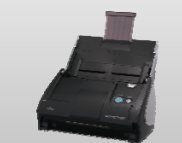
- Mixed Document Thickness
- Fast High Resolution Scanning
- Ultrasonic Double-Feed Detection



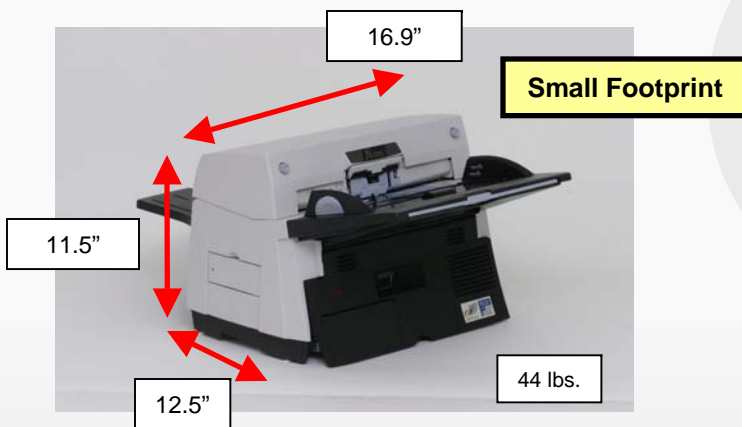
- Post Imprinter Option
- User Replaceable Consumables
- Fujitsu Service & Support



Fujitsu fi-5650C Low-Volume Production Scanner



- Straight Paper Path
- Excellent Paper Handling
- Mixed Document Types



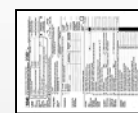
- True Duplex Scan Speeds
- Rated Speeds at 300dpi
- Fast Color Scanning
- Maximize Throughput



- Production Level Scanning with Small Footprint
- Excellent Paper Handling



Portrait

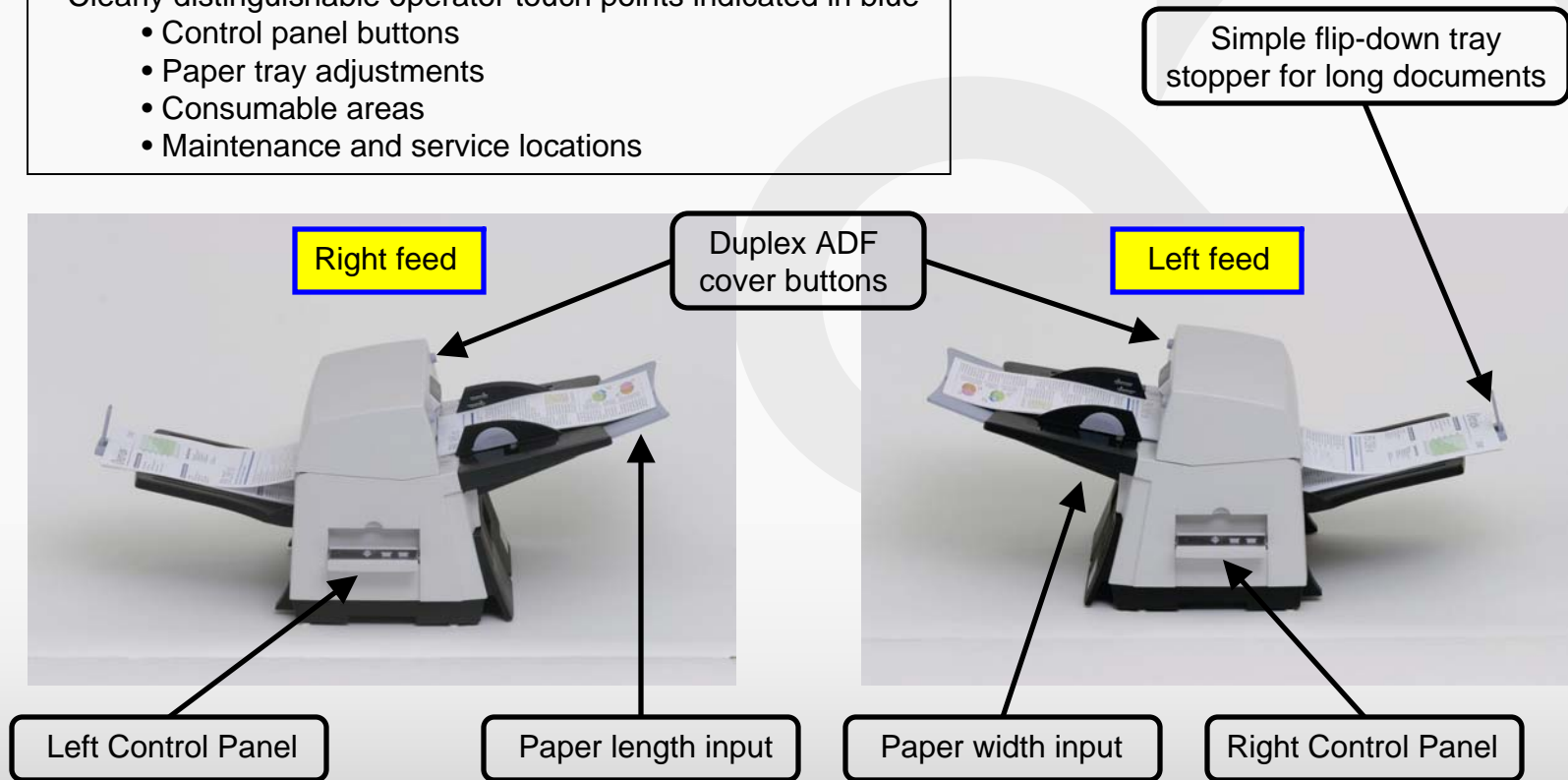


Landscape

	Portrait		Landscape	
	200 dpi	300 dpi	200 dpi	300 dpi
Binary	114 ipm	114 ipm	142 ipm	142 ipm
Color	114 ipm	114 ipm	142 ipm	142 ipm

Fujitsu fi-5650C Dual Document Feed Direction

- Right or Left direction feed document path
- Dual side control panel (2 total – one on each side of scanner)
- Two document feeder open buttons
- Clearly distinguishable operator touch points indicated in blue
 - Control panel buttons
 - Paper tray adjustments
 - Consumable areas
 - Maintenance and service locations



Convenience ▪ Ease of Use ▪ Flexibility ▪ Versatility

Product Level Scanning in a Space Saving Design

Fujitsu fi-5900C Mid-Volume Production Scanner



- True Duplex Scanning Speeds
- Fast High Resolution Scanning
- Dual Interface, USB 2.0 & SCSI

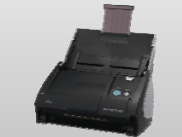


- Reduced Operational Noise
- Post-Scan Active Stacking Tray
- Three Ultrasonic Sensors

- Daily Duty Cycle up to 100k/day
- Consumable Life up to 600k sheets
- Outstanding Total Cost of Ownership



Fujitsu fi-5900C High Speed Scanner



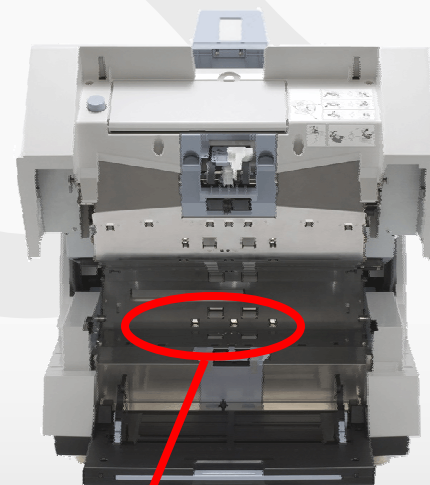
- ❖ Paper Handling
 - ❖ Mixed sized documents
 - ❖ Various paper weights
 - ❖ Different paper colors
 - ❖ Thin documents
 - ❖ Fragile documents
 - ❖ Manual feed mode
 - ❖ Document protection
- ❖ Scanning Speed
 - ❖ 100 ppm / 200 ipm @ 300dpi color (A3 portrait)
- ❖ Daily Duty Cycle & Consumable Life
 - ❖ 100,000 sheet daily duty cycle
 - ❖ 600,000 sheet consumable life



Fujitsu fi-5900C High Speed Scanner



- ❖ Connectivity & Integration
 - ❖ Multiple interface options
 - ❖ Ultra SCSI, High-Speed USB 2.0, VRS Ultra SCSI, VRS High-Speed USB 2.0 & Third-Party Slot
- ❖ Advanced Image Processing
 - ❖ Auto Rotation
 - ❖ Blank Page Removal
 - ❖ Color Saturation
 - ❖ Automatic Color Detection
- ❖ Service & Support
 - ❖ Nationwide on-site service
 - ❖ Next Business Day or 4-hour response programs available



The *fi-5900C* is equipped with 3 ultrasonic sensors.

Fujitsu fi-5900C Increased Over-scan

Increased Over-scan Area Prevents Cutting Edges

❖ Anti-corner cutting function:

- ⇒ Detects if a document is skewed
- ⇒ Adjusts scanning timing
- ⇒ Never cuts corners out of images

Without the anti-cornering cutting function

Cut corner

Scanning

Adjusting scanning timing ensures that corners are not cut out of images

With the anti-corner cutting function

Continues scanning until the trailing edge has passed by

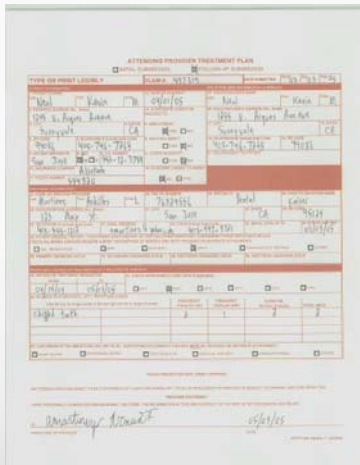
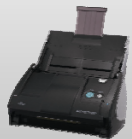
The entire document is scanned

Detects the leading edge

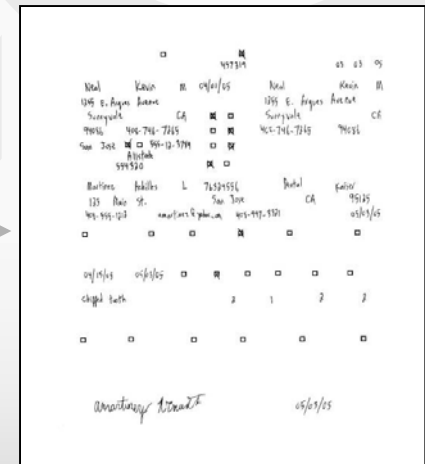
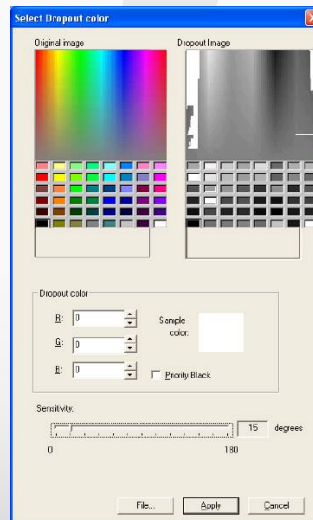


Fujitsu fi-5900C Customized Color Dropout

- Patient Treatment Form for Healthcare industry
- 16.7 million colors in spectrum
- Pick the *exact* matching dropout color



Scan the actual form



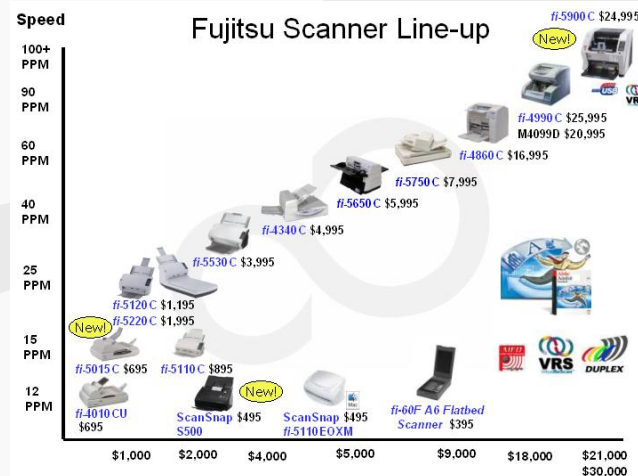
Background dropped out.
Increase OCR and forms
processing accuracy

Scanning Engine & Components

For well over 20 years now Fujitsu has been engineering, building and supporting high quality document scanners.

Importance of Original Equipment Manufacturing (OEM)

- Ability to more efficiently incorporate new features
 - Firmware updates, software enhancements, hardware design
- Roadmap and risk of obsolescence
 - Next generation / follow-up designs
- Secure investment in scanner with service and support
 - More control over spare parts, consumables & service



Fujitsu Document Scanner Line-up

Design ■ Engineering ■ Quality Assurance ■ Production ■ Refinement ■ Roadmap

Control over all aspects of scanner enable a high level of customer satisfaction

- | | | | |
|---------------------|-----------------|---------------|------------------|
| • Paper handling | • Cameras | • Consumables | • RoHS |
| • Controller boards | • Control panel | • Footprint | • SCSI interface |
| • Sensors | • USB interface | • Paper path | • Separation |

More Information



- Fujitsu Document Scanners
 - Web Site: <http://www.us.fujitsu.com/fcpa>
 - E-mail: ecmWebinars@fcpa.fujitsu.com
 - Phone: 888-425-8228
- EMC/Documentum ApplicationXtender
 - Web Site: <http://software.emc.com>
 - E-mail: emc-licensing@ingrammicro.com
 - Phone: 1-800-456-6783 ext x76492