EPSON
INSPIRING DIALOGUE

IN COMPUTING, A PRINTER IS A PERIPHERAL WHICH MAKES A PERSISTENT HUMAN-READABLE REPRESENTATION OF GRAPHICS OR TEXT ON PAPER OR SIMILAR PHYSICAL MEDIA

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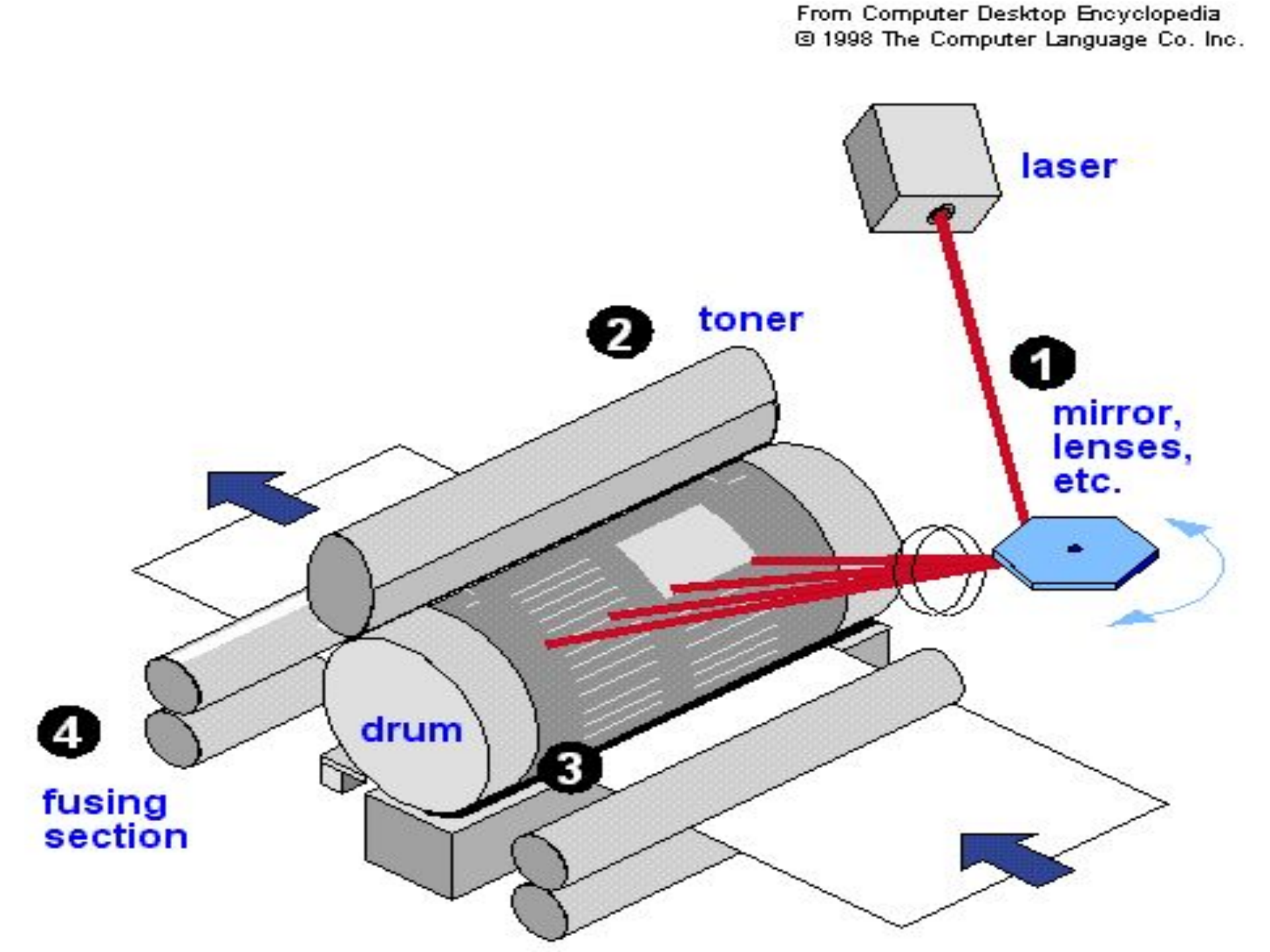
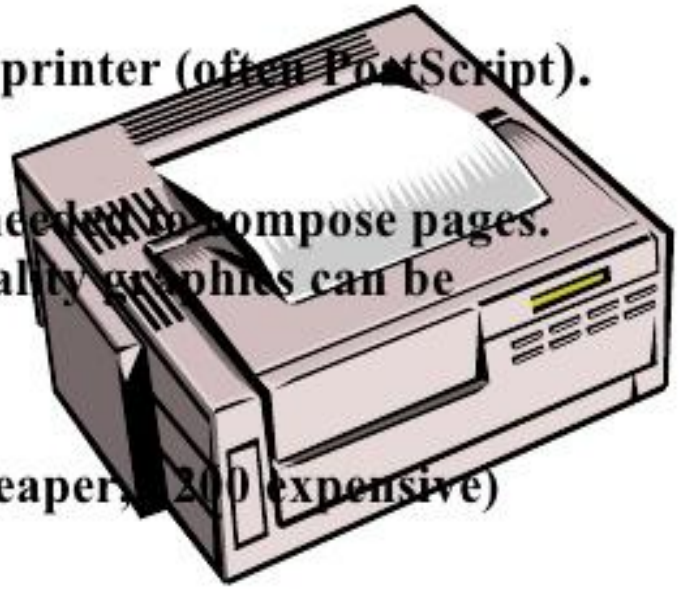


Computer Systems (H)

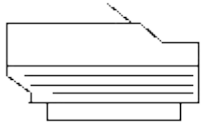
4.2 – Input & Output Devices
4.2.6 Printers – Laser Printer

- This type of printer uses lasers to "write" a page image onto a special drum as an electrostatic charge. The charged drum attracts toner particles which are transferred to the page and heated to set the image.
- Usually a page is composed in the printer (often PostScript).
- Capacity
  - On board RAM & processor needed to compose pages. The more RAM the higher quality graphics can be printed.
- Resolution
  - 600 dpi quite common (300 cheaper, 1200 expensive)
- Speed
  - The faster in pages per minute (ppm) the dearer ranges from 4 ppm to 20 ppm with 12 ppm being about average.



Printers, Printer Types, Print Styles, and Printer Drivers

Page Size/Orientation
e.g. – Landscape



Operating System Name to identify a specific printer, e.g. – hqunx138

Print Styles

Printers

Many Printers can be the same Type (of printer).

Assign a Printer Driver to support a unique Print Style for each Type of Printer you wish to use.

There can be many Printer Drivers that support a Print Style.

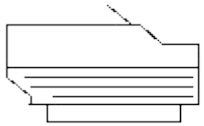
Each Printer can only be one Type (of printer).

Printer Drivers

Printer Types

Printer Commands
e.g. – Reset

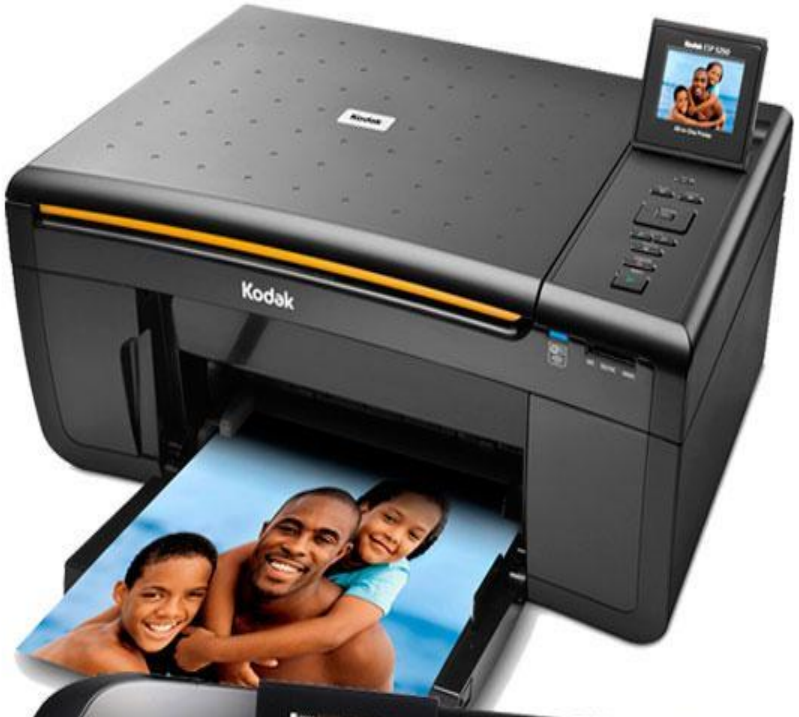
There can be many Printer Drivers that support a Printer Type.



Make/Model
e.g. – LN03

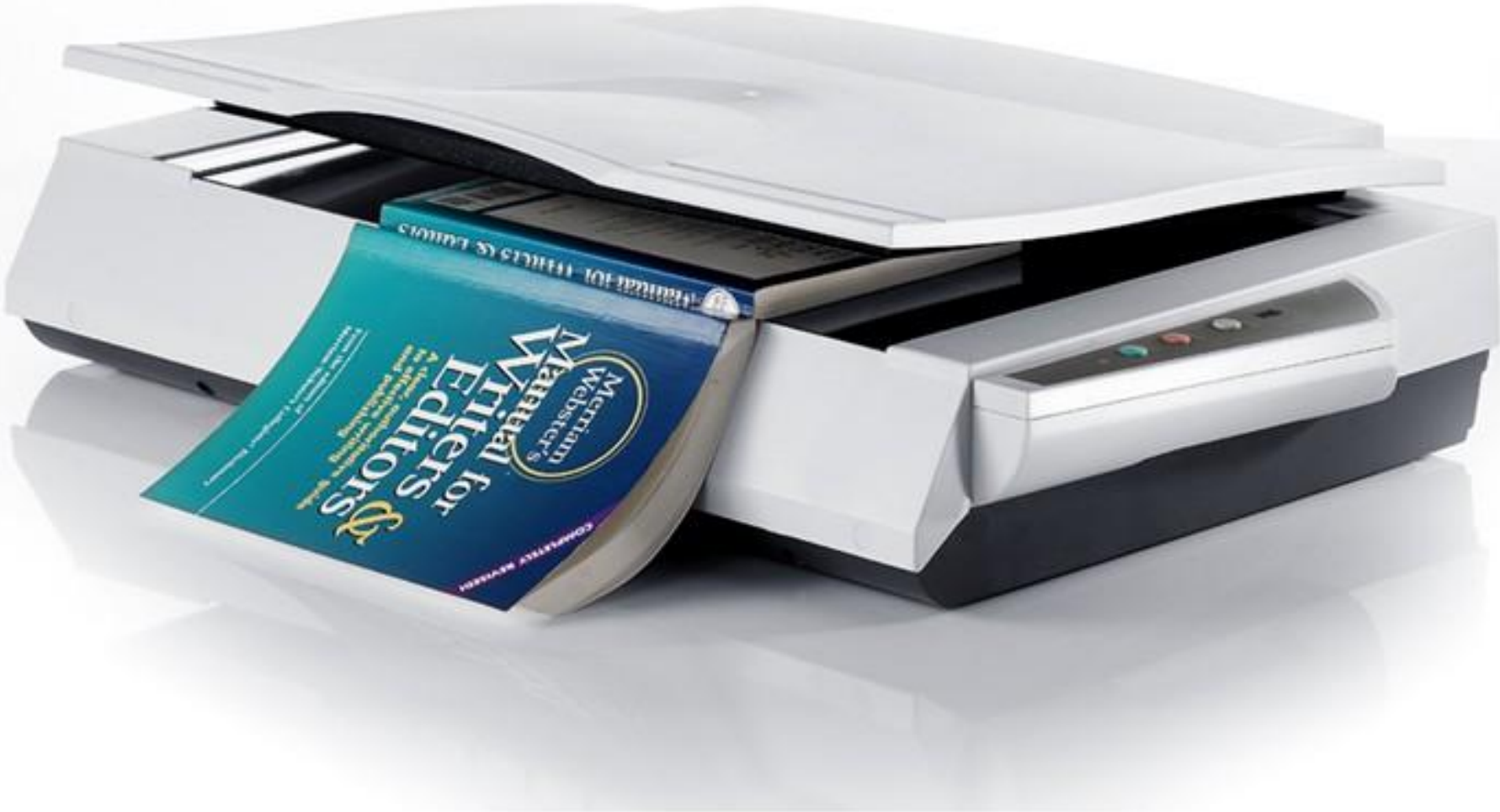
CamScanner

- Advanced image processing technology (Auto crop & Auto enhance image)
- Scan muti-page document
- Tag document
- Share document by email or SMS
- Upload to cloud storage (GoogleDocs、Box、Dropbox ...)


Kodak

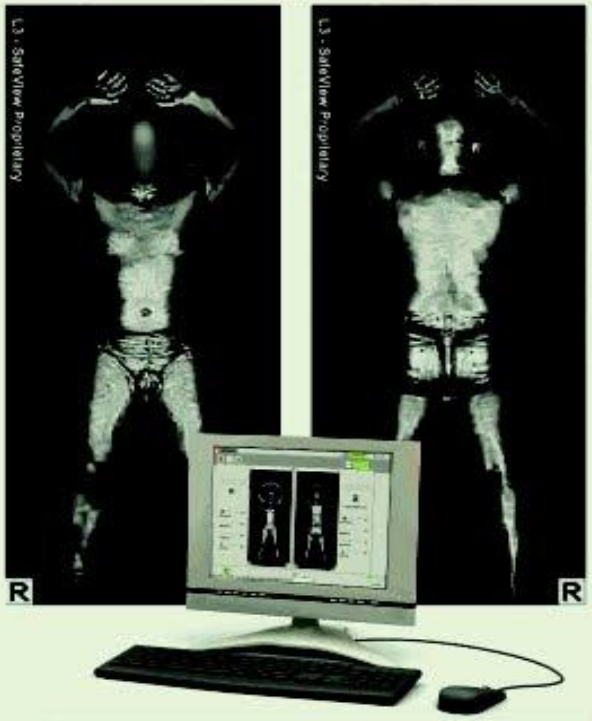
EPSON

Canon


Merriam Webster's
Manual for Writers & Editors

What body scanners detect

New whole-body scanners being used at some US airports can see through clothing to reveal non-metallic objects such as plastic explosives.



How scanners work

- Millimeter wave (MMW) technology uses radio waves
- Waves pass through clothing
- Computer uses reflected waves to create 3-D image of passenger
- Cost About $170,000 each

For passenger privacy

- Facial features blurred
- Security officer views images at remote site

Airports with scanners

Airports in 19 US cities use MMW scanners as voluntary option for screening

Comparing detectors

	Max. passengers per hour	Detects
Metal detector	500	Metallic objects
MMW scanner	425	Metallic, non-metallic objects*

*Includes liquids, rubber, wire, plastic, ceramic, metal

Source: US Transportation Security Agency, LiveScience.com, L-3 Security & Detection Systems, CNN
Graphic: Tim Goeen, Judy Treible

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