



Welcome

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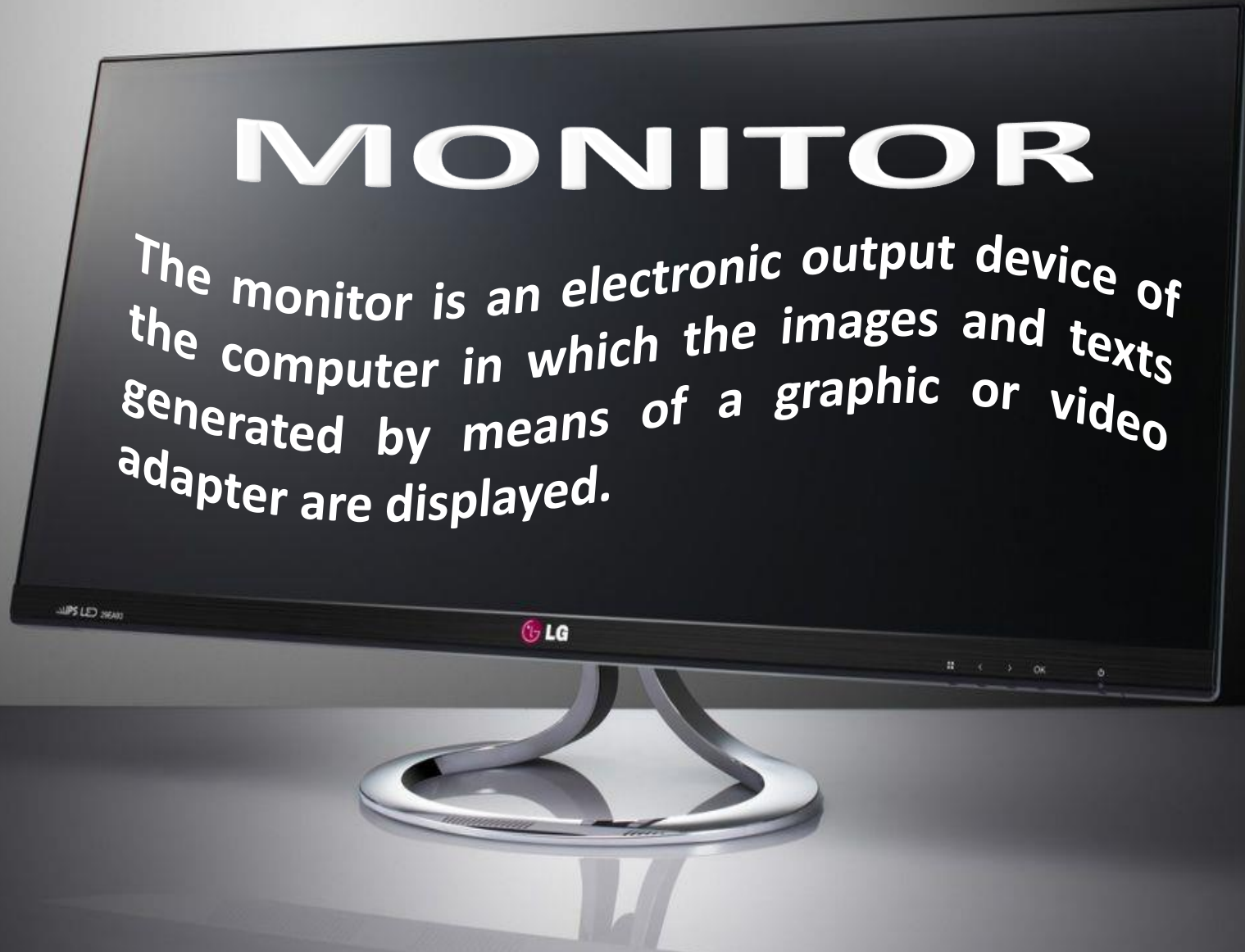


OUTPUT DEVICES



MONITOR

The monitor is an electronic output device of the computer in which the images and texts generated by means of a graphic or video adapter are displayed.





DIFFERENT TYPES OF MONITORS

CRT (Cathode Ray Tube) Monitors

- In CRT monitors, electrons are fired at phosphor dots on the screen.
- The dots are grouped into pixels, which glow when struck by electrons.
- In color CRTs, each pixel contains a red, green, and blue dot. These glow at varying intensities to produce color images.



Flat Panel Screen Monitors

- Flat panel displays are thinner than CRTs.
- Reduced volume, weight and power requirement compared to a CRT.
- Two main categories:
 - Emissive Displays
Electrical energy → Light Energy
Eg :- LED
 - Non- Emissive Displays
Sun light → Graphics
Eg :- LCD





Brand
Model
Screen Size

Dell
E2318H
23"

₹ 9304.55



Brand
Model
Screen Size

Dell
SE2717Hr
27"

₹ 11364.49



Brand
Model
Screen Size

Dell
P4317Q
43"

₹ 69469.07



Model : 25BL55WY-B
Resolution : 1920x1200 Pixels
Screen Size : 25"

₹ 25000



Model : 32MN58HM-P
Resolution : 1920 X 1080 Pixels
Screen Size : 32"

₹ 25000



Model : 34WK95U-W
Resolution : 5120 x 2160 Pixels
Screen Size : 34"

₹ 120000



Model : K242HYL Abd
Resolution : 1920 X 1080 Pixels
Screen Size : 24"

₹ 6392.21



Model : G276HL Kbix
Resolution : 1920 X 1080 Pixels
Screen Size : 27"

₹ 10654.16

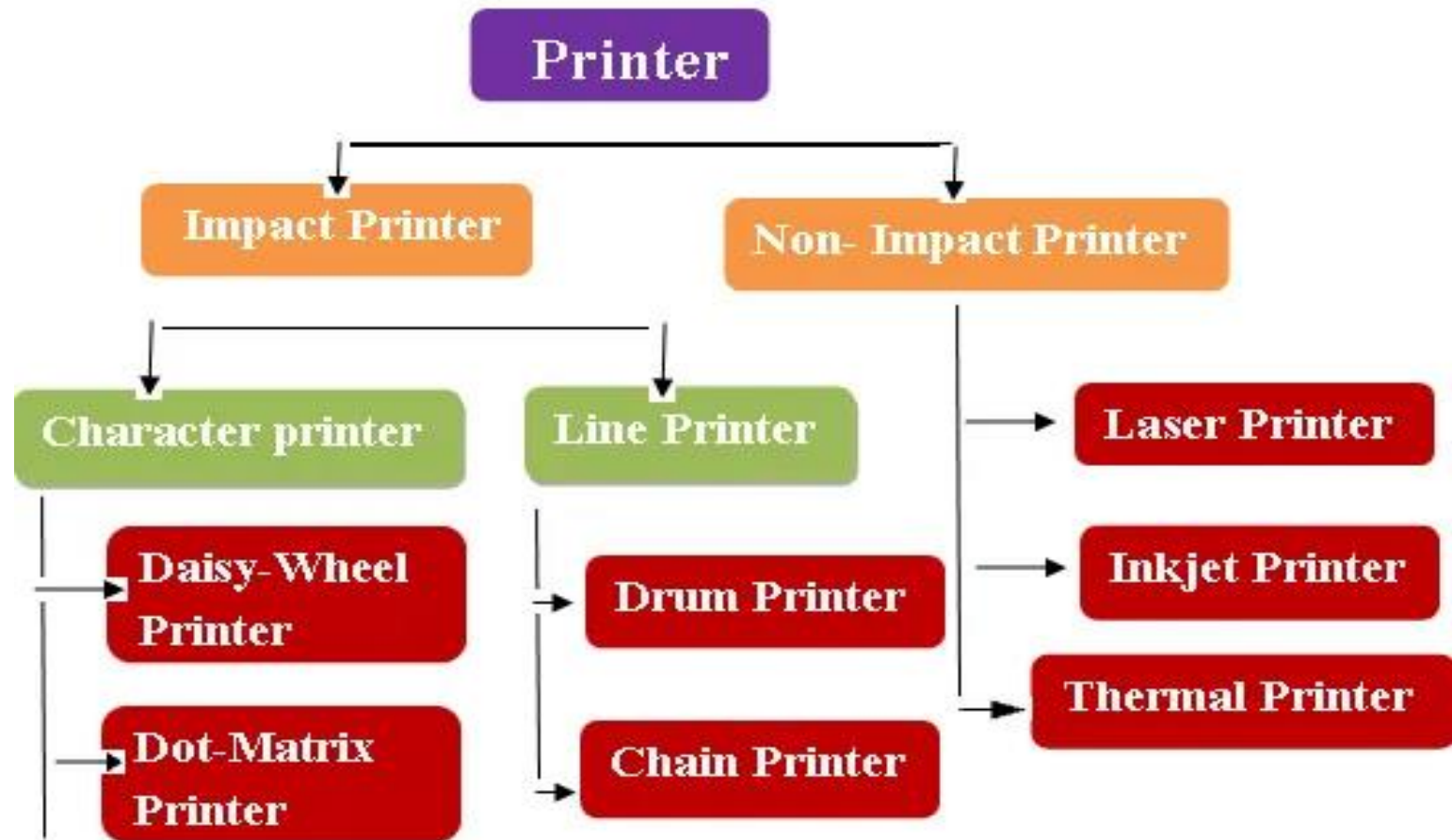


PRINTERS

PRINTER

- ❑ A printer is a hard copy output device that accepts data from a computer and generates output in the form of graphics / text on a paper.
- ❑ Printers vary in size, speed, sophistication, and cost.
- ❑ In general, more expensive **printers** are used for higher-resolution color **printing**.

TYPES OF PRINTERS



Impact Printers - An impact printer makes contact with the paper.

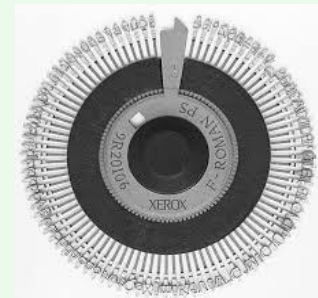
1. Character printer - Prints one character at a time

Dot-Matrix Printers



- Print heads contains 9 to 24 pins
- Pins produce patterns of dots on the paper to form individual characters
- Pins strike the ribbon from left to right, then right to left, and so on.

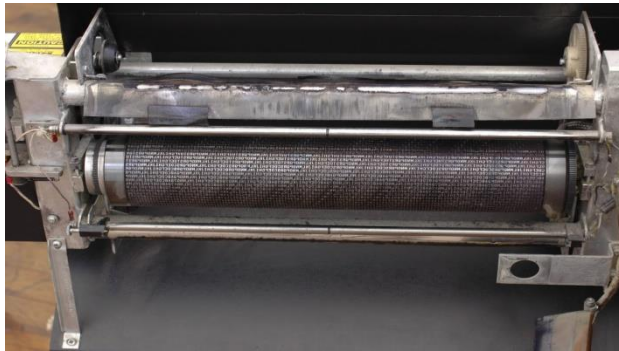
Daisy-Wheel Printers



- Same principle as a ball-head typewriter.
- Daisy wheel is a disk made of plastic or metal on which characters stand out in relief along the outer edge.
- Cannot print graphics
- 10 to 75 characters per second.

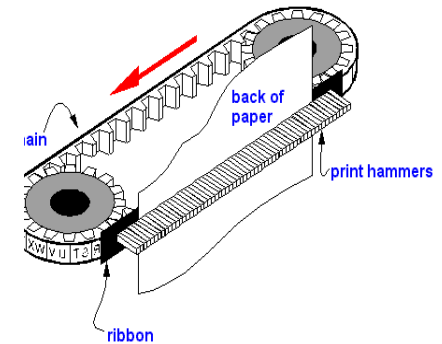
Line printer - prints one entire line of text before advancing to another line.

- DRUM PRINTER



- Uses a cylindrical **drum** which contains **characters** embossed around it.
- Can not print images and different font styles.
- Cannot be used for color printing.

- CHAIN PRINTER



- Type slugs are linked together to form a chain .
- The chain spins horizontally around a set of hammers.

Non impact Printers - Produces output without striking on the paper

- 1) **Thermal printers:-** It prints output on a special heat sensitive waxy paper. The image created on the this paper by burning dots on it.
- 2) **Laser printer:-** The laser printer transfers the image of output on paper using LASER technology and toner.
- 3) **Inkjet printers:-** It creates output on paper by spraying tiny drops of liquid ink.



TOP PRINTERS

Canon Maxify MB2750

High-capacity printing at home



Category: 4-in-1 colour inkjet printer

Print speed: 23ppm

Paper capacity: 500 sheets

Paper size: up to A4

Weight: 12.1kg

Brother DCP-J774DW

Well-built inkjet for business and pleasure



Category: 3-in-1 colour inkjet printer

Print speed: 15ppm

Paper capacity: 100 sheets

Paper size: up to A4

Weight: 8kg

Kyocera Ecosys P5026

Rapid laser printing for the busy home office



Category: colour laser printer

Print speed: 26ppm

Paper capacity: 250 sheets

Paper size: up to A4

Weight: 21kg

Canon Pixma TR8550

An elegant home MFD that means business



Category: 4-in-1 colour inkjet printer

Print speed: 15ppm

Paper capacity: 100 sheets

Paper size: up to A4

Weight: 8kg

Ricoh SP213w

Prompt mono printing in a conveniently compact laser



Category: mono laser printer

Print speed: 22ppm

Paper capacity: 150 sheets

Paper size: up to A4

Weight: 7.2kg

Samsung Xpress C1810W

Simple design, smart home printing



Category: colour laser printer

Print speed: 18ppm

Paper capacity: 250 sheets

Paper size: up to A4

Weight: 16.6kg

Two black, cylindrical speakers with a fine mesh grille. Each speaker has a glowing blue light ring at its base. The brand name 'soundcore' is printed on a small black label near the bottom of each speaker. The background is a dark, solid color.

soundcore

soundcore

SPEAKERS



COMMON TYPES OF COMPUTER SPEAKERS

MULTIMEDIA SPEAKERS



- + Cheap 2.0 speakers, kind of portable.
- Sound quality not really that great.

SURROUND SPEAKERS



- + Good surround sound.
- Takes up a lot of space.

SOUNDBAR



- + Long speaker that sits under screens.
- May need to be mounted.

HOME THEATER



- + Superb sound quality.
- Expensive, takes time to setup.

PORTABLE SPEAKER



- + Portable.
- Limited battery life, not really good sound quality.

INTERNAL SPEAKER



- + Built into the device.
- Like it or not, it's stuck inside.

A computer speaker is an output hardware device that connects to a computer to generate sound. The signal used to produce the sound that comes from a computer speaker is created by the computer's sound card.



THE BEST COMPUTER SPEAKERS

Logitech G560

The best RGB gaming speakers



Weight: 1.79kg (satellites) 5.5kg (sub)

Size: 5.8 x 6.5 x 4.6 in (satellites) 15.9 x 10 x 8.1 in (sub)

Drivers: 6.5-in subwoofer, 2-in tweeters

Supported Connectivity: USB, 3.5mm, Bluetooth

Creative A250

The best budget computer speakers



Weight: 258g (9.1oz) (left satellite) 361g (12.7oz) (right satellite) 1.56kg (3.44lbs) (sub)

Size: 2.83 x 5.79 x 3.11 in (satellites) 7.20 x 8.86 x 7.48 in (sub)

Supported Connectivity: 3.5mm

Klipsch R-15PM

The best high end computer speakers



Weight: 10.3 lbs (4.67kg)

Size: 12.5 x 7 x 8.11 in

Drivers: 5.25-in subwoofer, 1-in tweeters

Supported Connectivity: USB, Optical, 3.5mm, Bluetooth

Harmon Kardon SoundSticks Wireless

The best designed computer speakers



Weight: 1.5 lb (0.7kg) satellites 4.9 lb (2.2kg) sub

Size: 2 x 10 in (satellites) 9.19 x 10.19 in (sub)

Drivers: 6-in subwoofer, 1-in tweeters

Supported Connectivity: 3.5mm, Bluetooth

HEADSET

Headset is a combination of speakers and microphone. It is mostly used by gamers, and is also a great tool for communicating with family and friends over the internet using some VOIP program or other.



PROJECTOR



A device that is used to project rays of light, especially an apparatus with a system of lenses for projecting slides or film on to a screen.


Different Kinds of Projectors

There are two common types of projectors: DLP (digital light processing), and LCD (liquid crystal display).

- CRT projectors
- LCD projectors
- DLP projectors

NOTE- A latest technology LCOS(Liquid Crystal On Silicon) has entered into the picture which is considered as a more recent variant of the LCD technology.

CRT PROJECTORS



In the early days of projectors, CRT (cathode ray tube) projectors were commonly used. They utilized three tubes, one for each of the primary colors. Due to their large size, low light output and the frequent need to converge and align the images projected from each of the three tubes, they are no longer commonly used.

LCD projectors work by utilizing polarized mirrors that pass and reflect only certain colors of light. This causes each channel of red, green and blue to be separated and later re-converged via a prism after passing through an LCD panel that controls the intensity and saturation of each color.



LCD PROJECTORS

DLP projectors

Type of projector technology that uses a digital micromirror device. DLP's one chip is with a reflective surface having 1,000s of tiny mirrors coordinated with a light source to reflect digital imagery to any surface.



best projectors

LG CineBeam HU80KSW

A 4K HDR projector with a whole home cinema system thrown in



A true one-box system
4K HDR picture is more than capable
Still need speakers for optimum sound

BenQ HT3550

Performs like a dream



Support for 4K and HDR
Vivid, contrast-filled picture
Could be brighter
Basic, dated software

Anker Nebula Capsule II Mini Projector

A tiny, quality home cinema projector



- Android TV built-in
- Full-size HDMI port
- Could be brighter
- Netflix must be sideloaded

Anker Prizm II

A cheap, easy-to-use projector – though a bit on a bulky side



- Very affordable
- Easy to angle projection
- Bulky design
- Could be brighter

Plotter – this generates a hard copy of a digitally depicted design. The design is sent to the plotter through a graphics card, and the design is formed by using a pen. It is generally used with engineering applications, and essentially draws a given image using a series of straight lines.

