EXPERIMENT 11	INSTALLATION OF SCANNER AND MAINTENANCE A) INFRARED CLEANING
Date:	

AIM

To study the scanner device and to perform installation, configuration, and maintenance of a scanner including infrared cleaning procedure.

REQUIREMENTS

1. Desktop/Laptop computer system
2. Scanner (Flatbed/Handheld/ADF Scanner)
3. USB cable (or network cable for network scanner)
4. Scanner driver software (CD / Official website download)
5. Screwdriver (if internal connection required)
6. Power adapter
7. Administrator login credentials
8. Soft lint-free cloth
9. Isopropyl alcohol (for cleaning)
10. Anti-static wrist strap (optional but recommended)
11. Notepad for recording observation

PROCEDURE / PROGRAM

i. Identification of Scanner Components

i. Glass scanning surface

ii. Scanner lid

iii. Control panel buttons

iv. USB/Network port

v. Power connector

vi. CIS (Contact Image Sensor) / CCD sensor

vii. Infrared sensor (used for alignment and detection)

ii. Installation of Scanner

1. Preparation

i. Switch OFF the computer system.
ii. Unpack the scanner carefully.
iii. Remove protective locks or tapes from scanner head.
iv. Place scanner on flat and stable surface.

iii. Connecting the Scanner

i. Connect the power adapter to the scanner.
ii. Plug the USB cable into scanner and computer USB port.
iii. Switch ON the scanner.
iv. Boot the computer system.

iv. Installing Scanner Drivers

i. Insert driver CD or download latest driver from official website.
ii. Run the setup file.
iii. Follow installation wizard instructions.
iv. Accept license agreement and complete installation.
v. Restart the system if required.

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v. Configuration and Verification

i. Open Control Panel → Devices and Printers.
ii. Check whether scanner is detected.
iii. Open scanning software (Windows Fax and Scan / Manufacturer Software).
iv. Place a document on scanner glass.
v. Click Preview to check alignment.
vi. Click Scan and save the file.
vii. Verify clarity and resolution of scanned document.

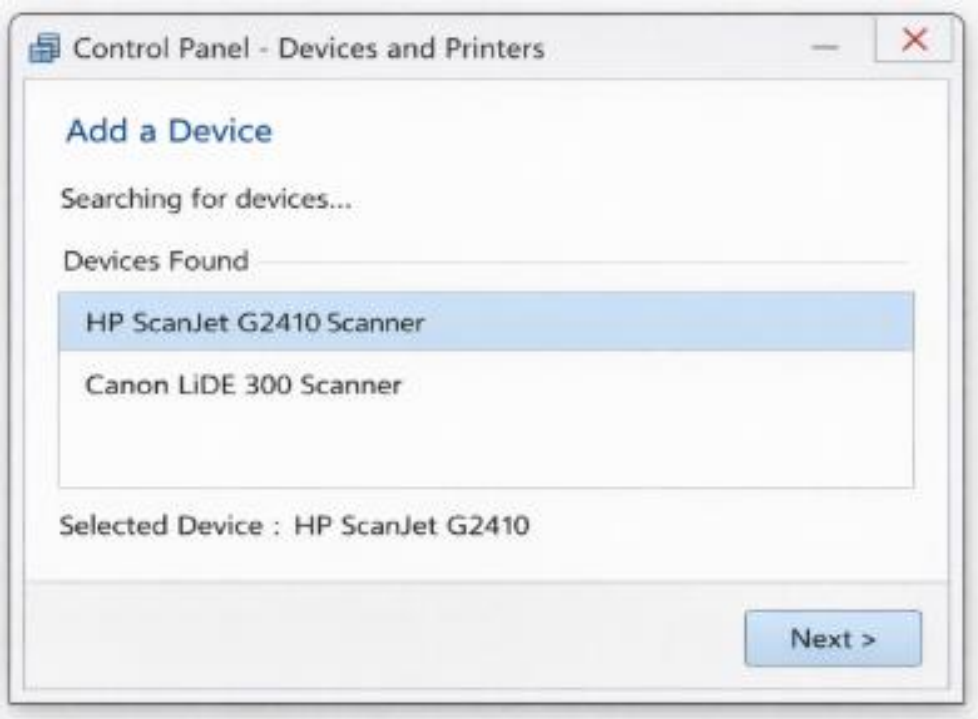
a. Infrared Cleaning

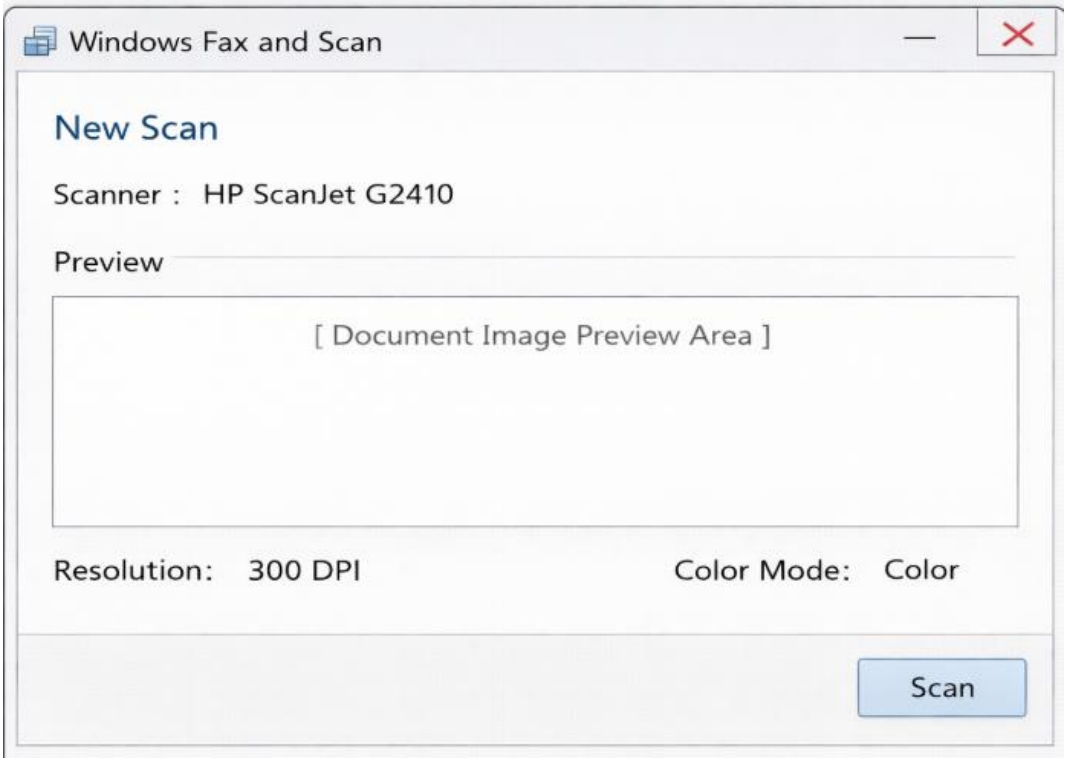
Infrared cleaning ensures proper functioning of scanner sensors and prevents scanning errors such as lines or distorted images.

Steps for Cleaning:

i. Switch OFF the scanner and unplug power cable.
ii. Open the scanner lid.
iii. Use soft lint-free cloth to clean glass surface.
iv. Apply small amount of isopropyl alcohol to cloth (do not spray directly).
v. Gently wipe the glass and infrared strip area.
vi. Clean white backing panel inside the lid.
vii. Allow surface to dry completely.
viii. Close the lid and reconnect power.
ix. Perform a test scan to verify proper functioning.

SAMPLE OUTPUT






SCANNER MAINTENANCE
Scanner Lid Open
Scanner : HP ScanJet G2410
White Backing Panel (Cleaned)
Glass Scanning Surface
Cleaned using lint-free cloth
Infrared Sensor Strip
Carefully wiped with alcohol cloth
Status : Cleaning Completed
Scan

RESULT

The experiment of Scanner Installation and Maintenance and infrared cleaning was carried out successfully and output verified..