Operation description:

Pen scanner can work in 3 modes

1. **Scanning**
2. **Data transfer in USB mode**
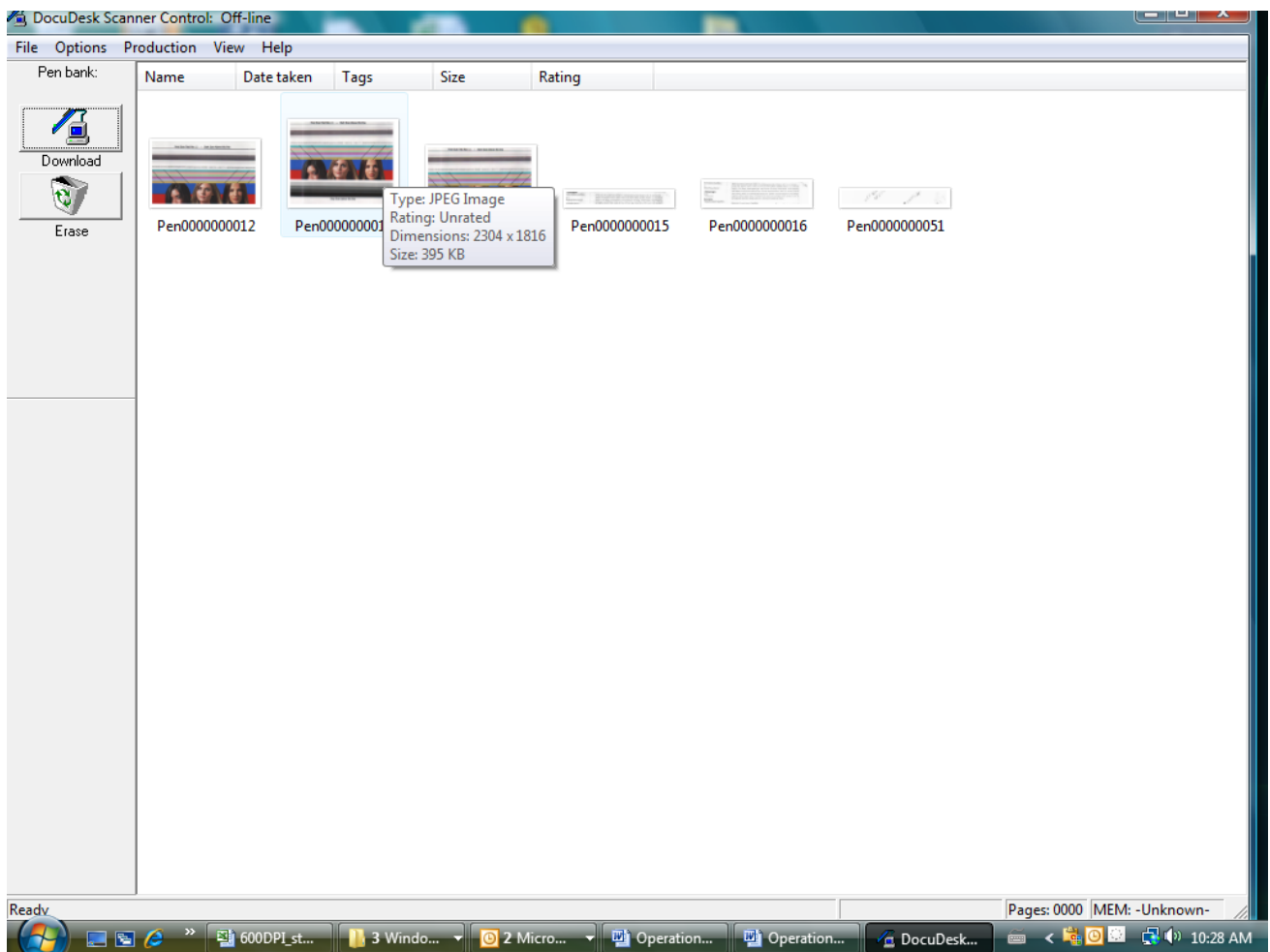3. **Data transfer in Bluetooth mode**

1. Scanning:

To start scanning user have to turn pen on by pressing power button.   Next he has to place scanner on the top of image which he wants to scan. After scanner is well position on image, user has to drug scanner down the image.

Roller sensors located on bottom of scanner will detect movement and pen will start scanning.   Analog data will be read from sensor chips and converted to digital on main board.   Then data is transferred to uProcessor and saved in memory.   When pen reaches end of image sensors will not detect movement and scanner will stop scanning.

2. Usb transfer:

Transfer of images from scanner to PC is done by USB.   To do it you need to install USB driver,   Pen TWAIN driver , and Docudesk.

Please run Docudesk and click on Dowload button in top left corner and follow instruction on screen.

Data will be transfer from memory on board via dedicated usb IC to computer.

3. Bluetooth transfer:

To get images wireless to PC you can use BT transfer. Please turn on scanner and set mode on scanner to BT mode. (by selecting button next to power on button). Next scanner has to paired with PC. PC has to have BT hardware. Pairing code is "0000". After pairing is done data can be downloaded to PC by BT. To do it user has to use Docudesk application. Scanner has to be still in BT mode (status is displayed on scanners screen) User has to open Docudesk and click on download icon in aplcation. Data will be transferred from scanner internal memory to processor and then to dedicated BT IC and via antenna to PC. To do BT transfer scanner has to be disconnected from USB cable.

4. Power and options on scanner

Scanner is running from 3.7V 100mAh rechargeable battery. Battery can be charged by using USB cable on connected to PC. On board power supplies are generating 1.2V, 1.8V and 3.3V for all electronics. Status of scanner and all available modes are

displayed on OLED screen. Changing of resolution, color and gray modes, compression can be done by 2 buttons next to display.