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## Support Files for Digidrop

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### [\\$1 - Software Installation Files](#)

#### 1-1 CD-ROM

Info : You must unzip the file and extract before installation. It includes informations part where you can find procedure to install correctly your software. Below you will be able to download all the parts of the CD-ROM.

[Click here to download the CD-ROM](#)

#### 1-2 Installation files for USB video Camera

Info : To install your software you need to install the driver for the USB video camera. In case, you have bought Firewire or Ethernet camera the file ( for the driver) is the same one. You must unzip the file and extract before installation.

[Click here to download the USB Driver](#)

#### 1-3 Installation files for Windrop++ or Visiodrop Software

Info: You must unzip the file and extract before installation. Then go to Disk 1 and click on set up for starting the installation.

[Click here to download the Installation software](#)

#### 1-4 Carte Video DLL

For each camera , the software remains same. Only the file Carte Video DLL. dll has to be changed. For using your software with the Pixelink video camera, replace one of these file by the one installed. Then rename it CarteVi By changing the file you can change the speed of recording by changing the size of the image record.

[Carte Video Dll.dll for 25 frames/s](#)

[Carte Video Dll.dll for 60 frames/s](#)

[Carte Video Dll.dll for 120 frames/s](#)

1-5 Drivers for Picolo video frame grabber

[Picolo.sys](#)

[PicoloWDM.inf](#)

[Picolo32.dll](#)

If you need to reinstall your drivers, take off the card from the computer and turn on the computer. Then turn it off. Install the Video card in a PCI. Then follow up the instructions created by windows. The files downloaded will be useful to finalize the installation.

1-6 Solving Problems of Port COM

[Procedure](#)

## **§2 - Instrumental Informations**

2-1 [Owner's Manual Guide](#)

Info: By clicking above you will get information about the software

2-2 [Preparation of your tools before starting a measure](#)

Info: Preparation of your tools is important to avoid contamination

2-3 [Complete your first measurement of contact angle](#)

2-4 Info: Procedure to start using the instrument

2-5 [Complete your first measurement of surface tension](#)

Info: Procedure to start using the instrument

2-6 [The best modules for an accurate measurement of interfacial tension](#)

[Download the file](#)

2-7 [Automation window](#)

Info: This file will help you to make an automatic deposition of the droplet on the surface, manually or with a automatic dispenser.

2-8 [Automation window for tilting table](#)

Info: The tilting table needs a specific automation window

2-9 [Adjustment of image with MCAT Model](#)

Info: Procedure to adjust the backlight of Digidrop MCAT model without tilting table

2-10 [Automatic syringe Module](#)

Info: Support info to use correctly the automatic syringe V2

2-11 [Wetting Hysteresis](#)

Info: The wetting hysteresis is essential in the study of surfaces cleaning. Below a training video is available

## 2-12 Principle of Contact Angle & Surface tension measurement

### 2-13 Captive bubble

The captive bubble is a good solution when surfaces are very hydrophilic and no static contact angle can be m

### Infos about Captive Bubble

#### 2-14 Validation of the measures with Digidrop

#### 2-15 Calculation of Polar and dispersive component of a liquid

#### 2-16 Surface energy Equations

#### 2-17 Wetting envelop info

## **§3 - Sequences and Images**

Info : To open these files with Visiodrop or Windrop+, open one of the menu and then go to View, load a sec  
load an image

### Superhydrophobic droplets

### Needle

## **§4 - Training Videos**

### *4-1 Gamma Adjustment*

*The gamma adjustment is a modify an image to look sharper*

*I want to download the file*

### *4-2 Calibration of the Pixel & Display of Pendant Drop Volume*

*I want to download the movie*

### *4-3 Good practice in the measurement of contact angle*

*I want to download the movie*

### *4-4 Wetting hysteresis : the best way to evaluate the cleaning of a surface*

*I want to download the movie*

**UP**

## **§5 - Infos about Software**

Below you will find infos about the main Visiodrop software improvement

1. Can work with Win7
2. Better alignment of the data in table
3. Add rules in the Target centering ( 1/10 mm and 1mm)
4. Display of the volume of the droplet at 0,01 µL
5. Name :Diving syringe changed by Wetting Hysteresis
6. Implementation of an Explorater for Visiodrop windows
7. Display in the droplet of the value DS & DE
8. Exportation of the Wetting envelop on XLS ( curves and data)
9. Exportation of Components of Surface Energy
10. Draw of the Diameter in Polynomial
11. Improvement of accuracy of displayed volume
12. Implementation of New coefficient for temperature
13. New automatic syringe
14. Improvement of wetting hysteresis software and automation
15. Modification of recording speed by using ROI
16. Display of the volume and area of the droplet in surface tension menu
17. Add auto-Y table with Flex333
18. ini file is in C:Digidrop and no more in the folder Win
19. Improvement from the automation for Prod-Mapping
20. Number in table includes the rank in the table and the rank in the sequence
21. Automatised Focus assistance
22. Built-in Nano Rugosimeter dialog software

## **UP**

### **§6 - Database of Liquids**

[Solvent Properties A-B](#)

[Solvent Properties B-D](#)

[Solvent Properties D-E](#)

[Solvent Properties E-M](#)

[Solvent Properties M-P](#)

[Solvent Properties P-T](#)

[Solvent Properties T-Z](#)

### **§8 - Assembling your Digidrop-MCAT ( It will take 1 or 2 minutes depending on your internet speed**

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