

Technical Working Party on Testing Methods and Techniques

TWM/1/6

First Session

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DUS CHARACTERISTICS IMAGE PROCESSOR

Document prepared by an expert from China

Disclaimer: this document does not represent UPOV policies or guidance

The annex to this document contains a copy of a presentation on “DUS characteristics image processor”, prepared by an expert from China, to be made at the first session of the TWM.

[Annex follows]

DUS CHARACTERISTICS IMAGE PROCESSOR

Jinzhou Sub-center of New Plant Variety Tests,
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Processing steps

Four steps to process an image:

1. Cropping
2. Adjusting the brightness
3. Labelling
4. Generating standard images

YEAR	2018	2019	2020	2021
Number of Image	777	593	813	1041
Days	10	8	4	5

End of 2019

We began to design PS plug-in.

2020.5

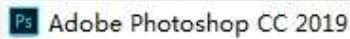
We have made the plug-in.

We named it
DUS Characteristics image
processor.



Advantages of plug-ins

First, this is a imageShop **plug-in**.



1

Open images with
one click

2

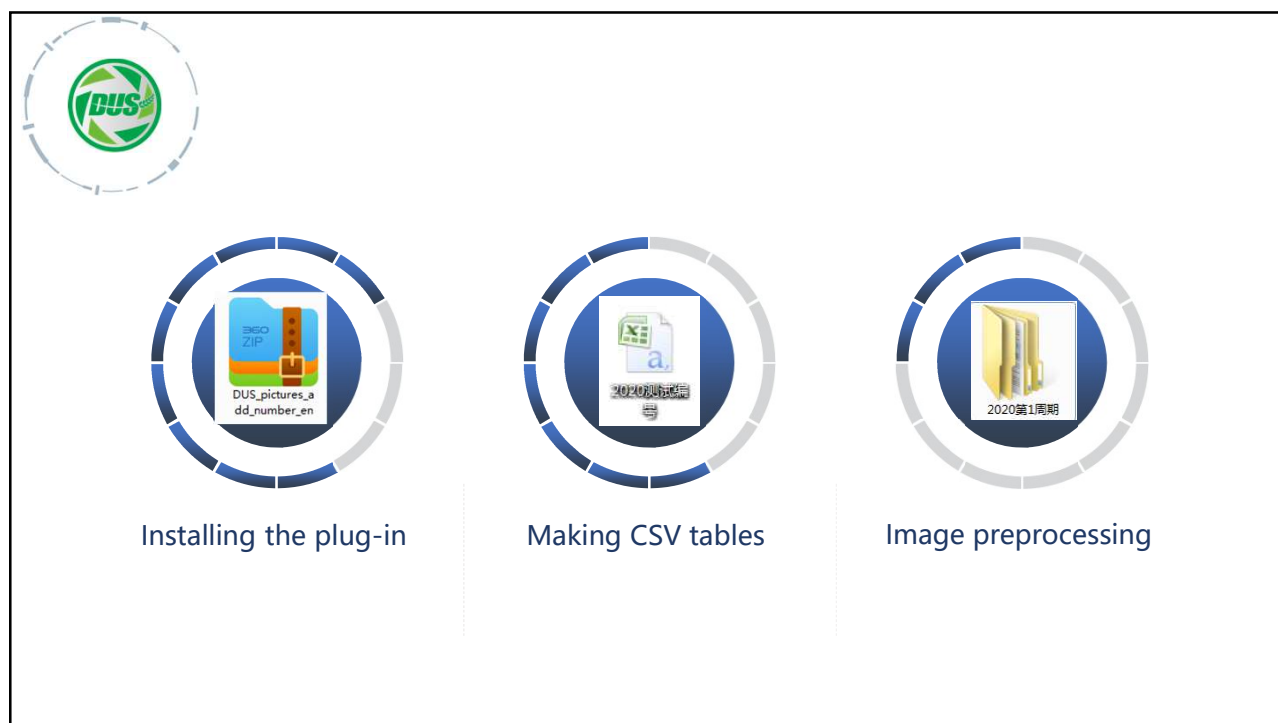
Automatically unify
Image pixels and sizes

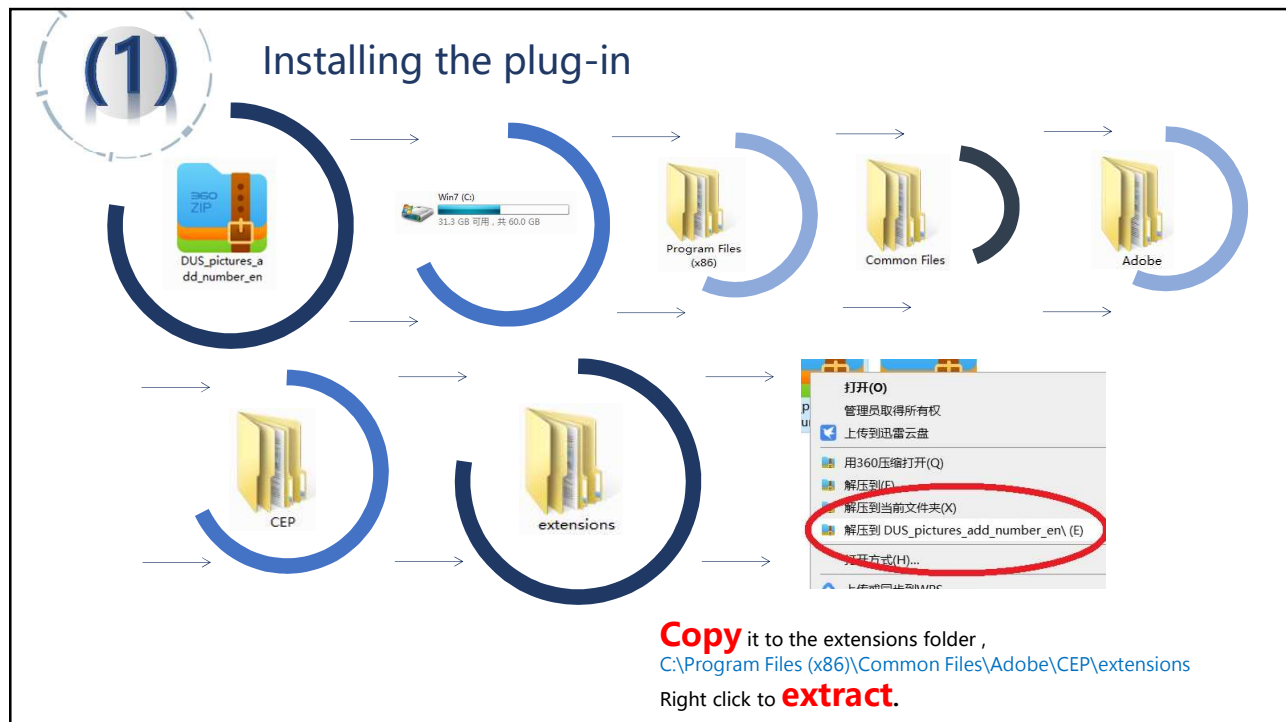
3


Add labels intelligently
without manual
operation

4

**Automatically generates, saves and
renames** labelling and none
labelling standard images in both
formats







(3)

Image preprocessing

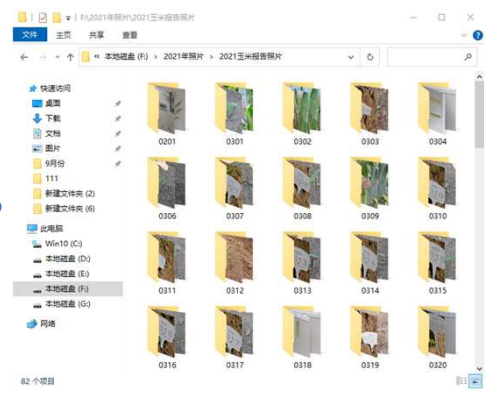
Select the image you want to work with and rename it:
1/2/3/4

1	F:/2021年/2020第1周期/1101	1.JPG	打开图片	添加标签	完成
2	F:/2021年/2020第1周期/1101	2.JPG	打开图片	添加标签	完成
3	F:/2021年/2020第1周期/1101	3.JPG	打开图片	添加标签	完成
4	F:/2021年/2020第1周期/1101	4.JPG	打开图片	添加标签	完成

Delete other images

5	F:/2021年/2020第1周期/1101	_DSC5204.JPG	打开图片	添加标签	完成
6	F:/2021年/2020第1周期/1101	_DSC5206.JPG	打开图片	添加标签	完成
7	F:/2021年/2020第1周期/1101	_DSC5638.JPG	打开图片	添加标签	完成
8	F:/2021年/2020第1周期/1101	_DSC5641.JPG	打开图片	添加标签	完成
9	F:/2021年/2020第1周期/1101	_DSC5642.JPG	打开图片	添加标签	完成

Note: You may not rename according to personal habit



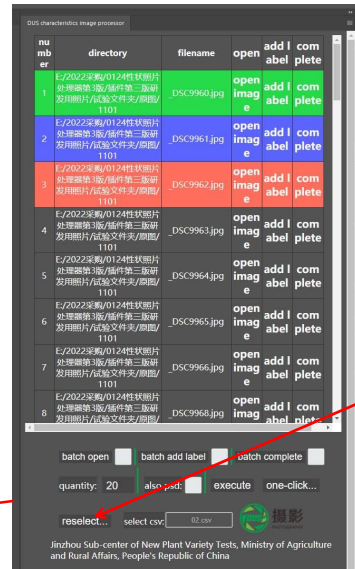
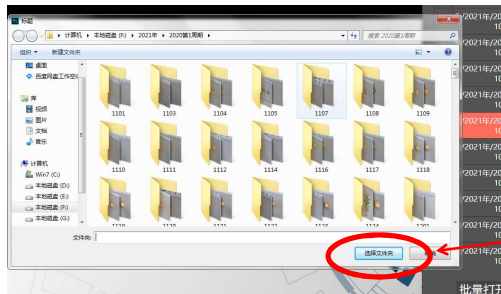
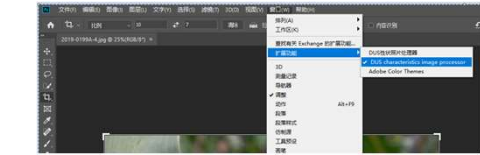
PART

3



Operation steps

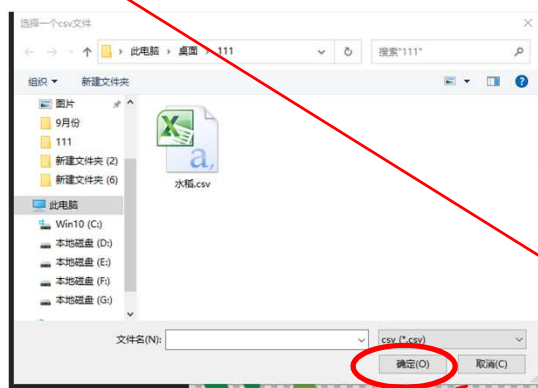
1. Open the PS software, and click Window - Extended Functions - **DUS CHARACTERISTICS IMAGE PROCESSOR**



Click reselect folder

Note: You can import **multiple levels and folders**, and plug-ins will **sort images** by folder location and image name

2. Select the **CSV** file



Note: CSV file must be added, otherwise invalid operation will happen.



3. Convenient functions



Batch Open: Fill in the quantity - click batch open



Batch labelling: Click Batch labelling According to the CSV file, the name is "Test Number" and the image name is "Test Number _1/2/3/4"



Batch Complete: - Click Batch Complete



One-click labeling: all images are automatically captured, unified pixel and size, standard images are generated, and renamed and saved

※ The number of images varies, the processing takes several minutes to more than ten minutes, please wait patiently.



4. Easy operation



【Open image】 After clicking this button, the display bar will be orange, indicating that the image has been opened. Can intercept, lighten and other operations.

【Add Label】 After clicking this button, the display bar will be blue, and the image without label has been saved. You can also manually adjust the label position, which defaults to the bottom center of the image.



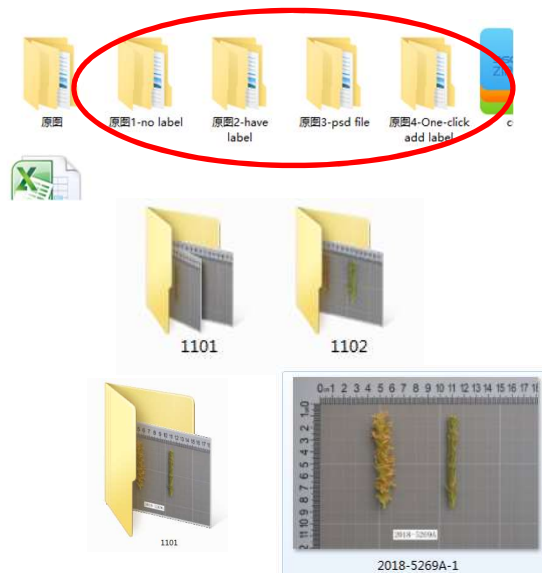
【complete】 Click this button, the display bar appears green, at this time the tagged image has been saved

Work progress can be logged, no impact after system abort or crash.

5. Storage location of processed images

The plug-in automatically generates four folders: **no labels**, **Labels**, **Psd files**, and **one-click checkin**.

The processed images will be stored in the appropriate folder.



PART
4



Future plan

