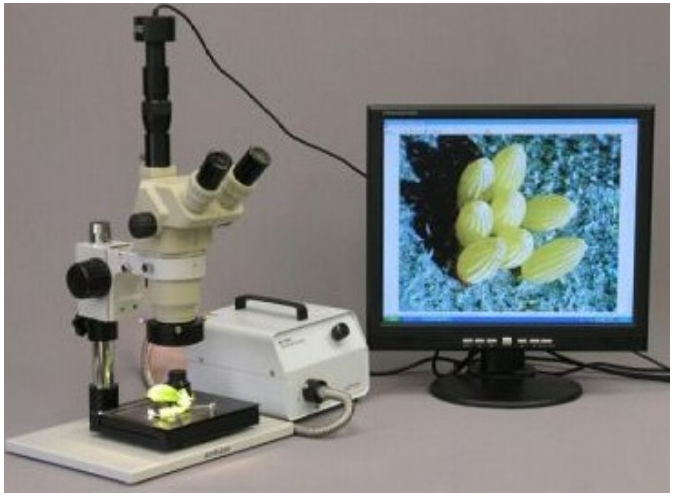
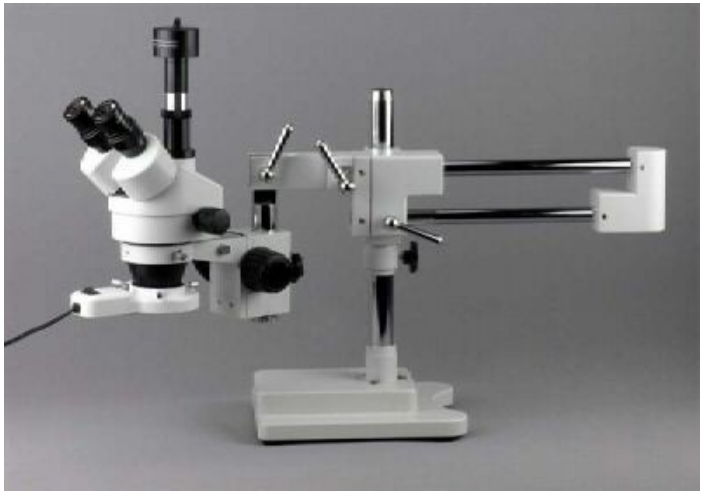
www.i3412.com

ScopePhoto user guide

Only for Windows XP or Vista with
USB2.0

Application *of Digital Camera for Microscope*

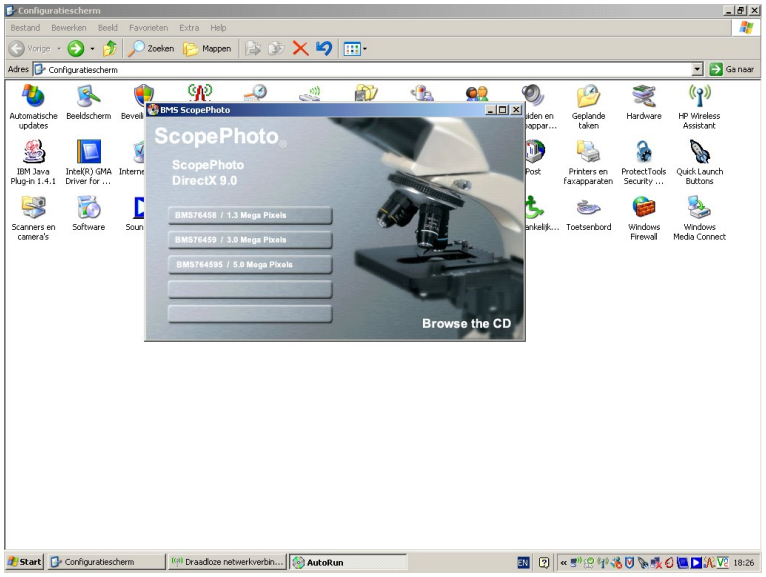




1. D

Start Using *Digital Camera for Microscope*

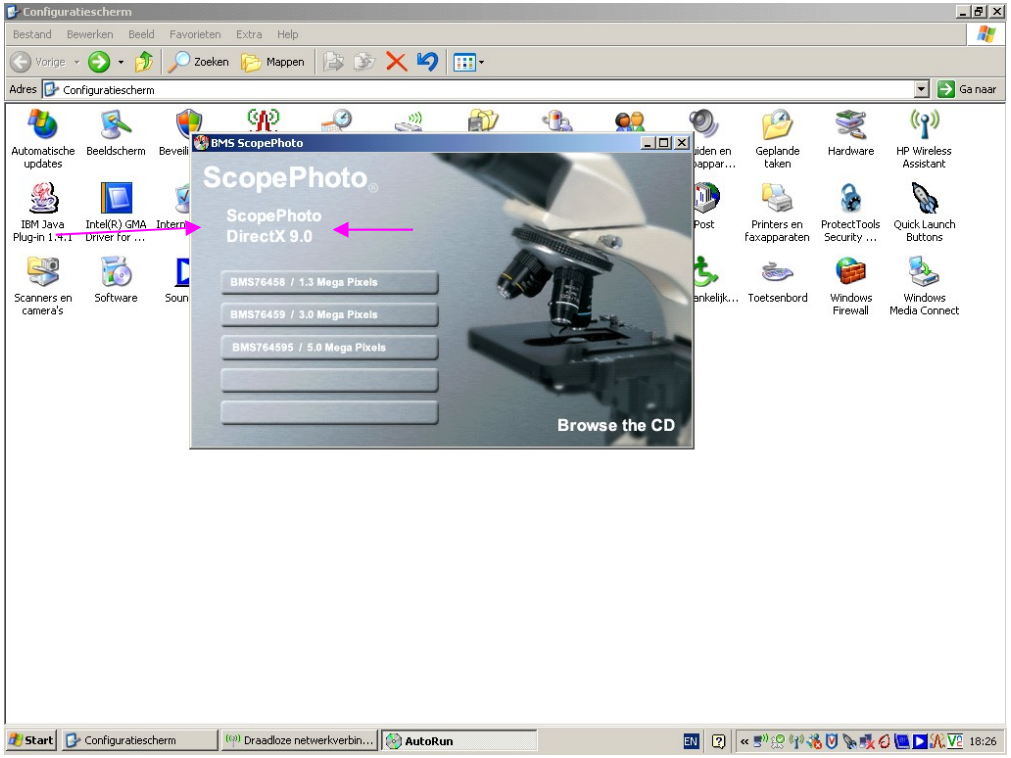
- *Insert the CD into your PC CDROM .*
- *Do not connect your camera at this moment., You will be asked to do so later. The installation program should run automatically.*
- *Install the driver with the name as your DCM hardware.*



2.Install ScopePhoto

Start Using *Digital Camera for Microscope*

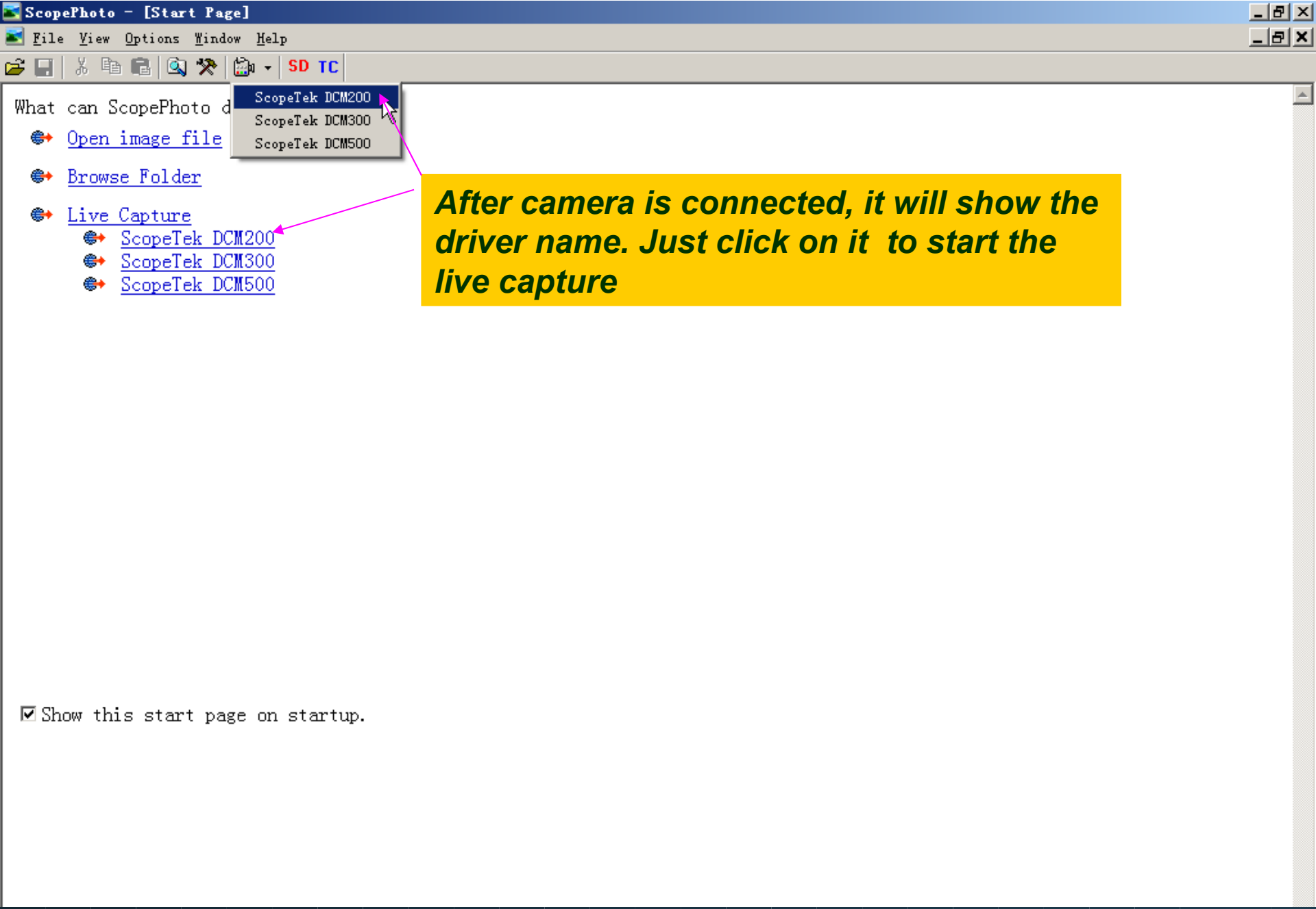
- ***Install DirectX 9.0 if your version is lower than 9.0, otherwise, skip this step***
- ***Install ScopePhoto***



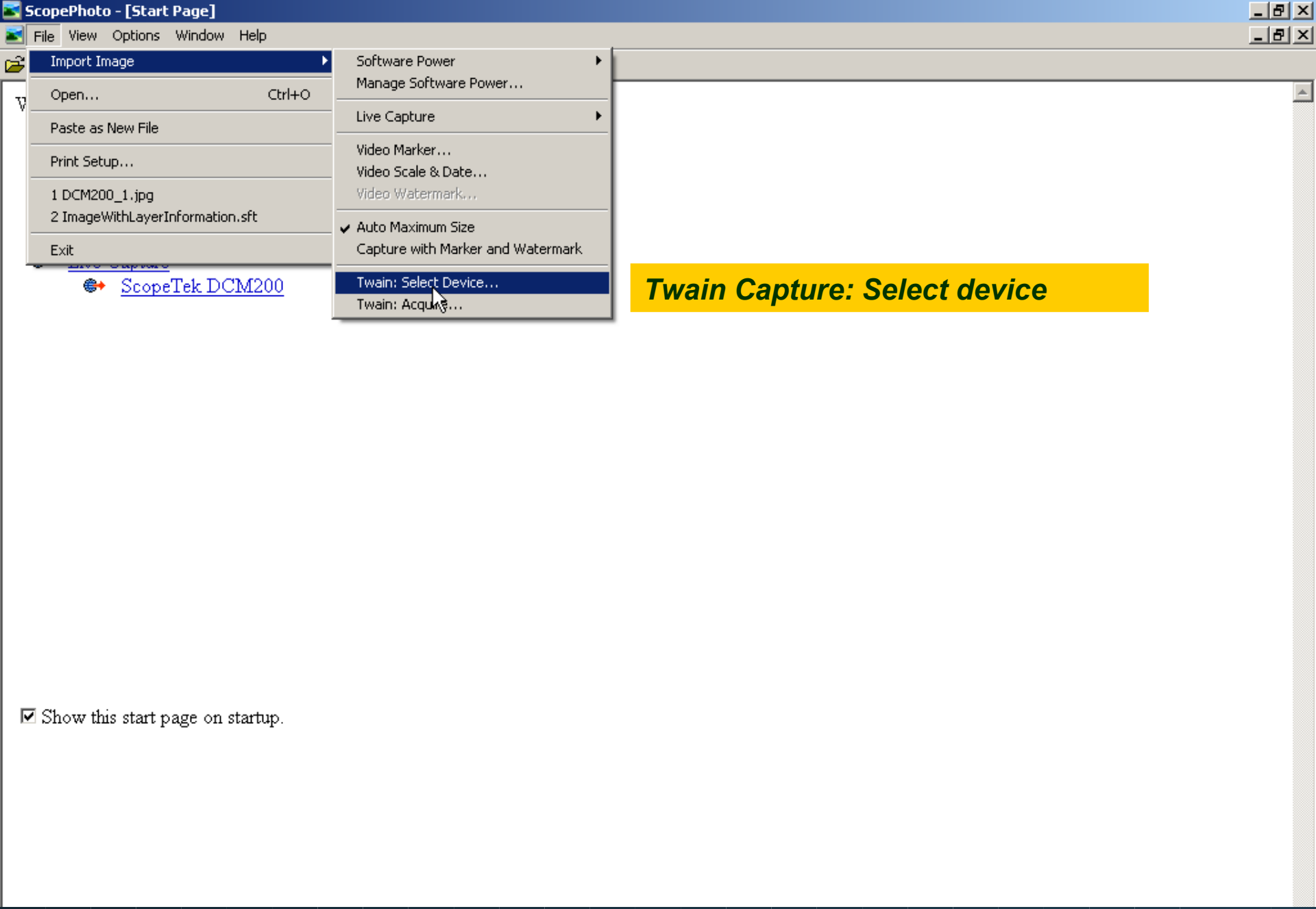
Start Using Digital Camera for Microscope

3. What can ScopePhoto do?

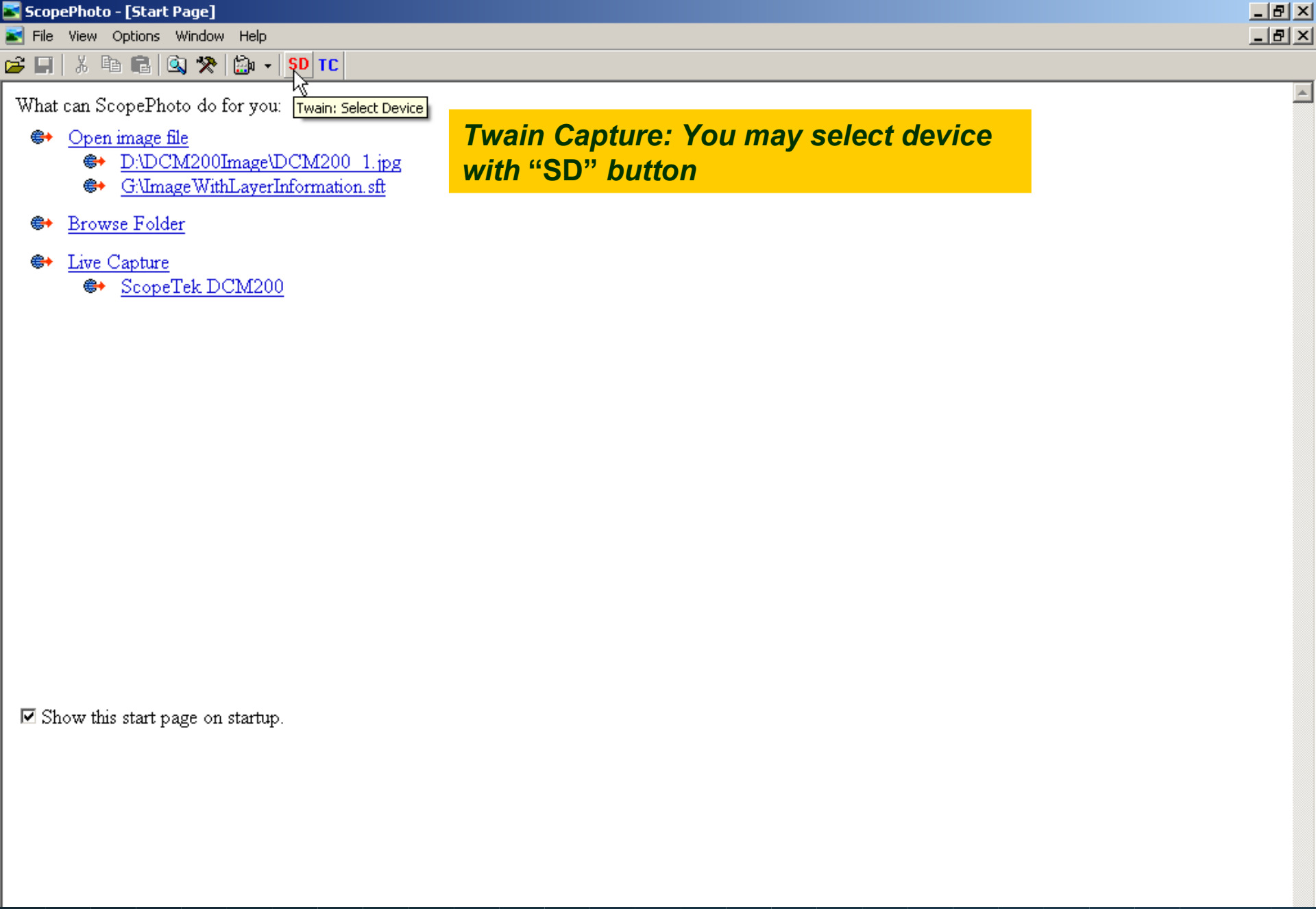
- **Video Preview and Capture**
  - Start video preview in DirectShow or Twain format;
  - Overlay marker, scale & date , water marker on video;
  - Software power definition and video measurement
  - Record video in AVI ,MPEG4 or other format;
  - Capture image and save image in BMP, JPG, PNG,TIFF,PCX, TGA or SFT formats;
- **Layer and Draw**
  - Insert layer on the image to keep draw objects;
  - Draw geometrical objects on the image to show the image information;
  - Export draw objects operation ;
  - Draw object and image print ;
  - Save draw objects with the image in sft format ;
- **Image Processing**
  - Image adjustment;
  - Image processing ;
  - Image plugin provided by the 3rd party;
- **Image Browse**



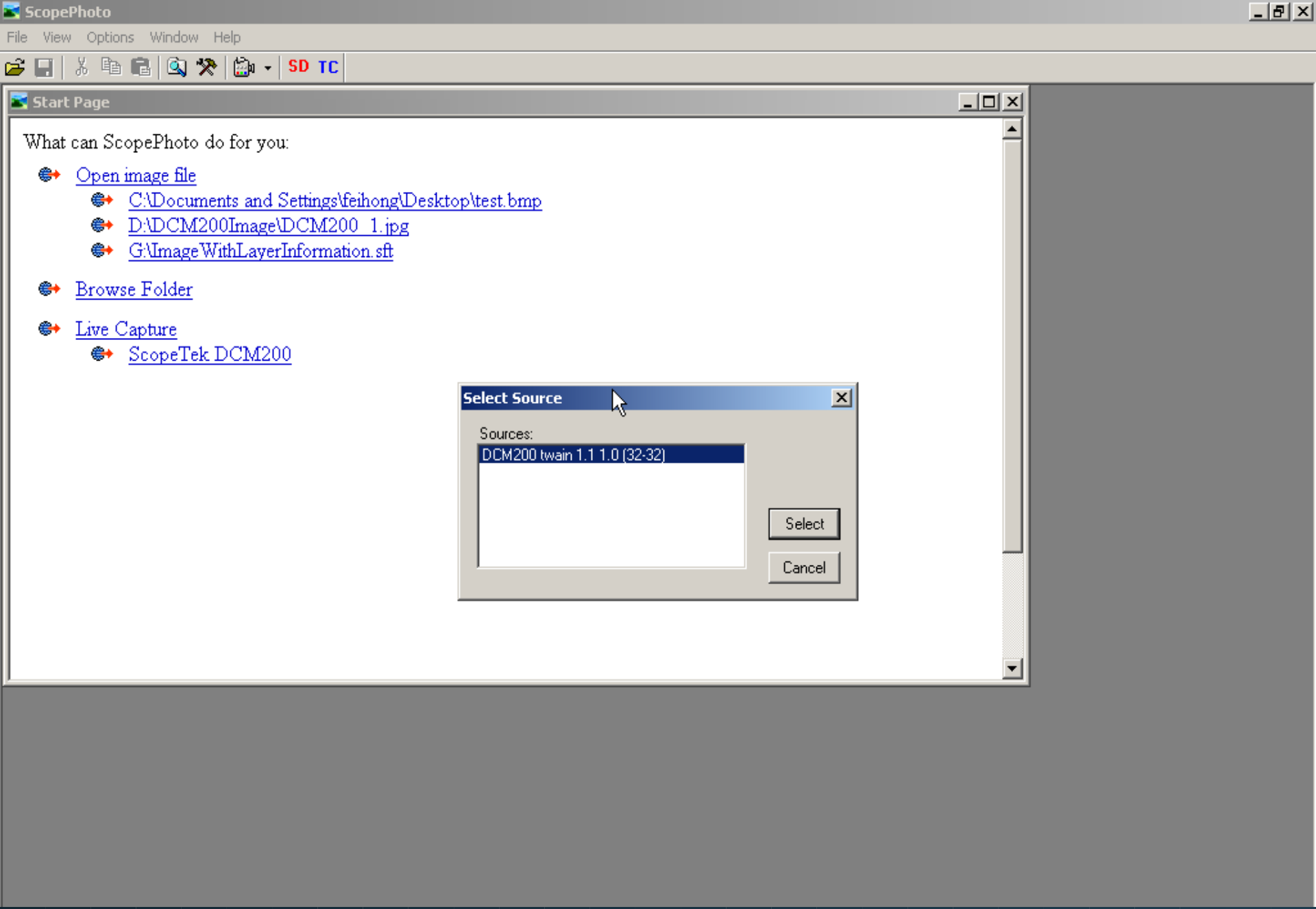
Video *Preview and Capture*



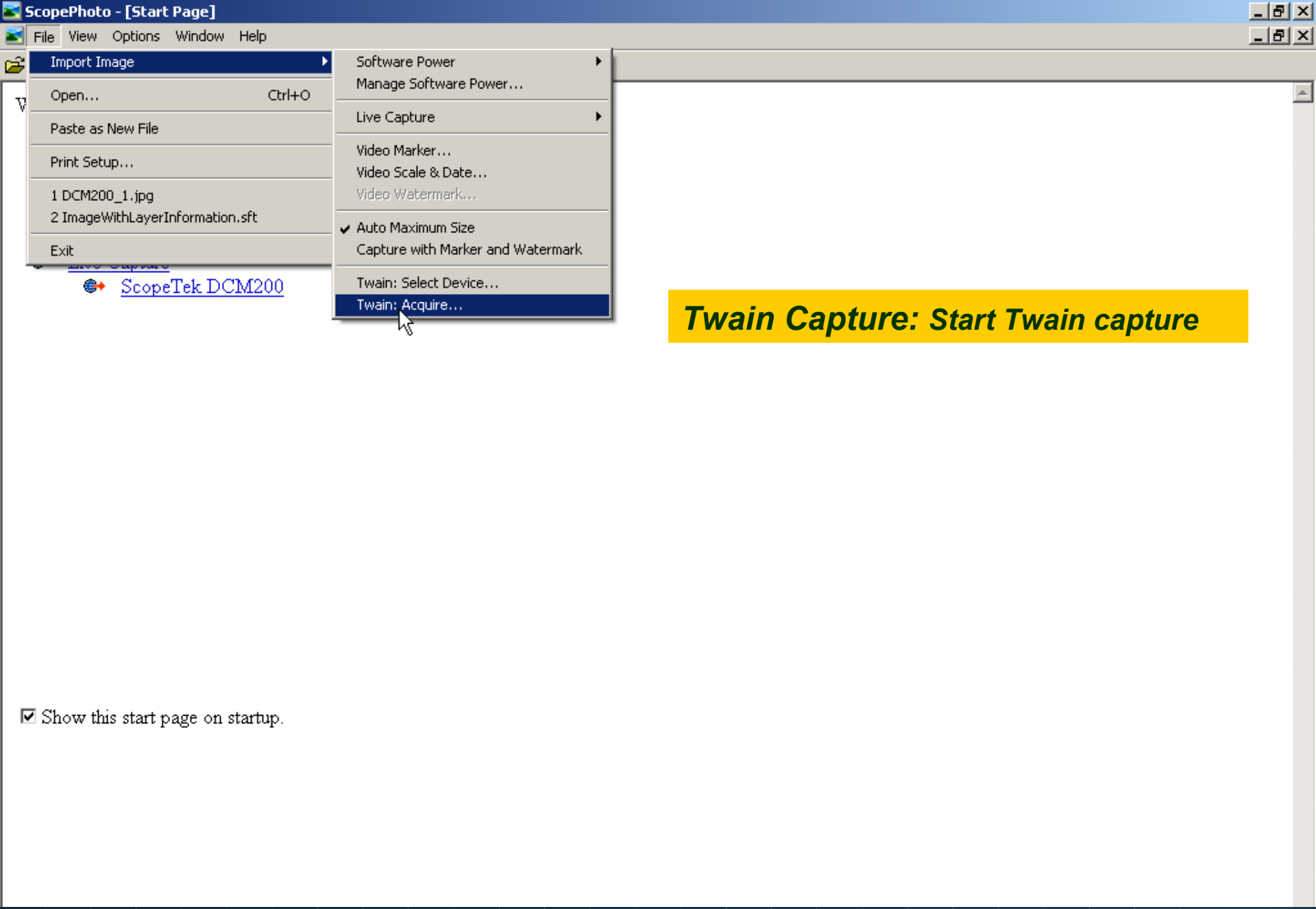
Twain Capture: Select device



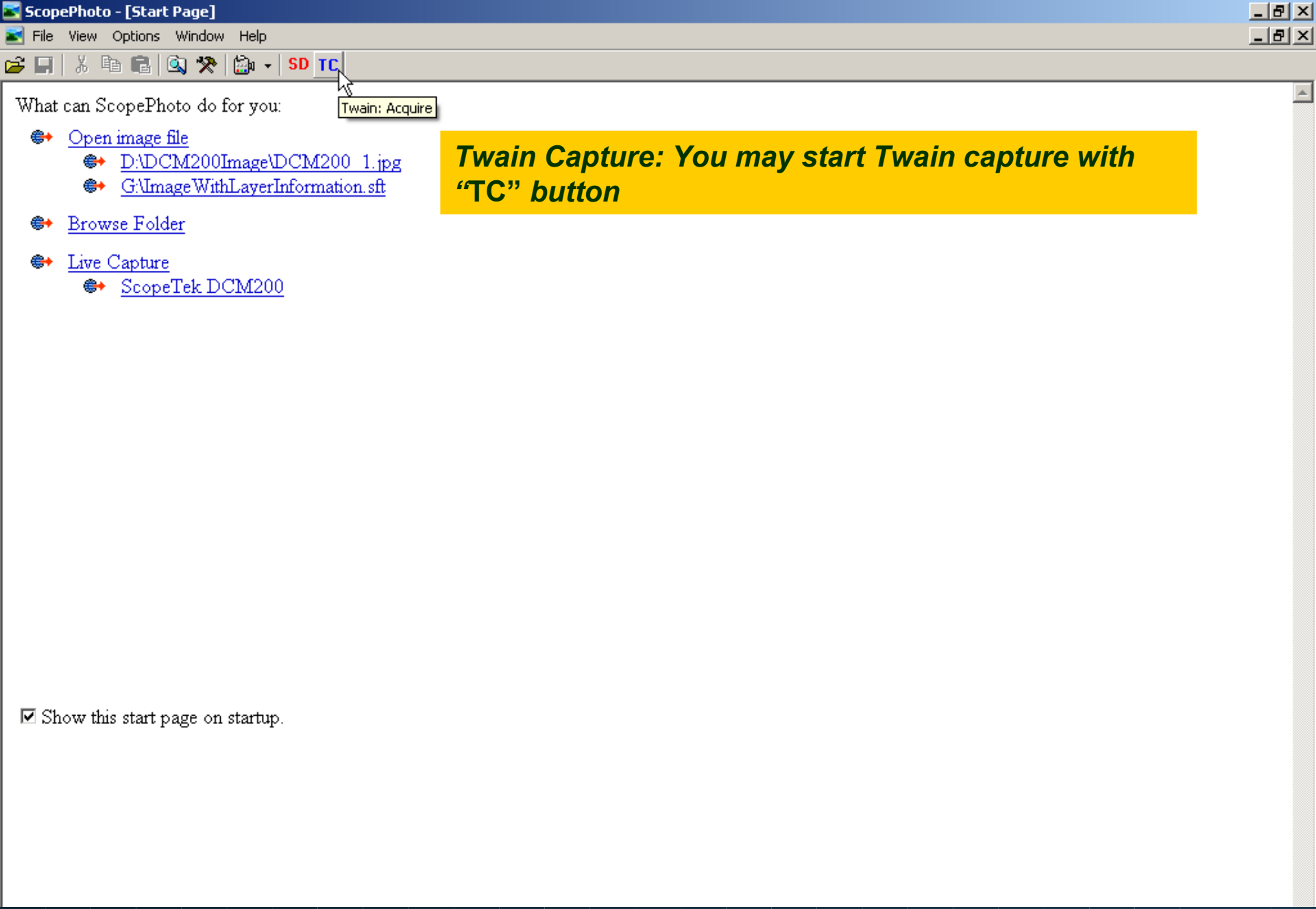
Twain Capture: You may select device with "SD" button



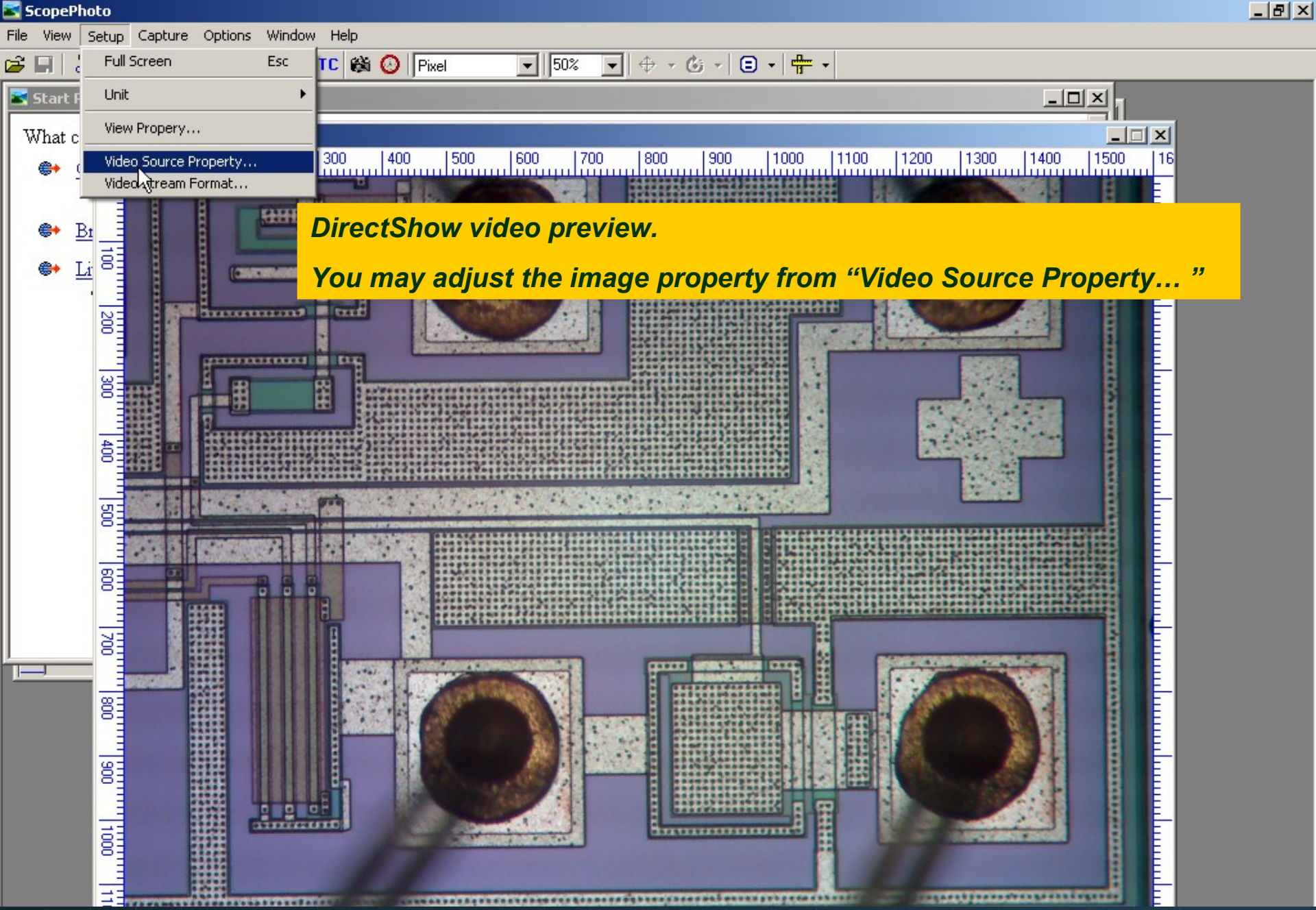
Video *Preview and Capture*



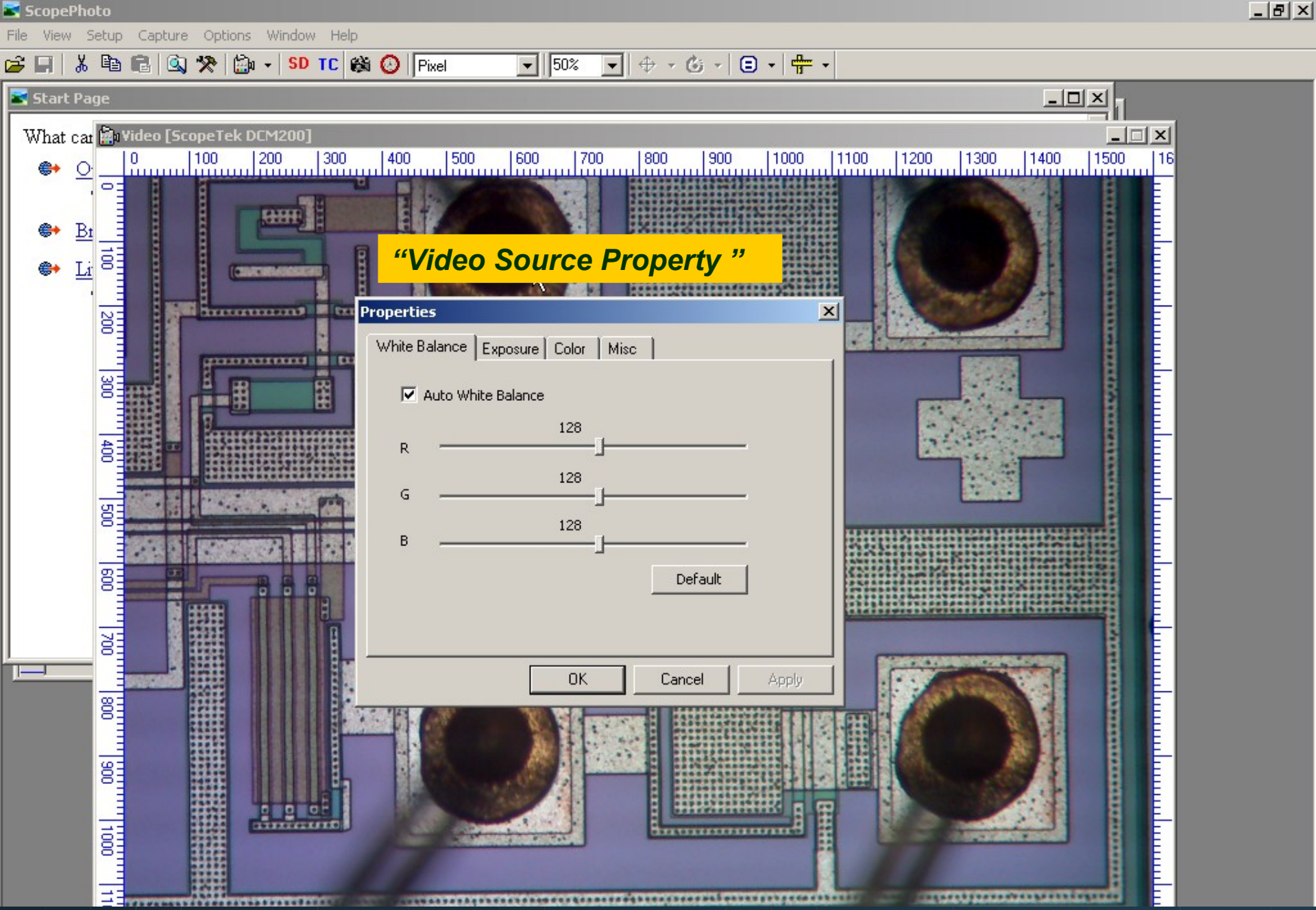
***Twain Capture:** Start Twain capture*



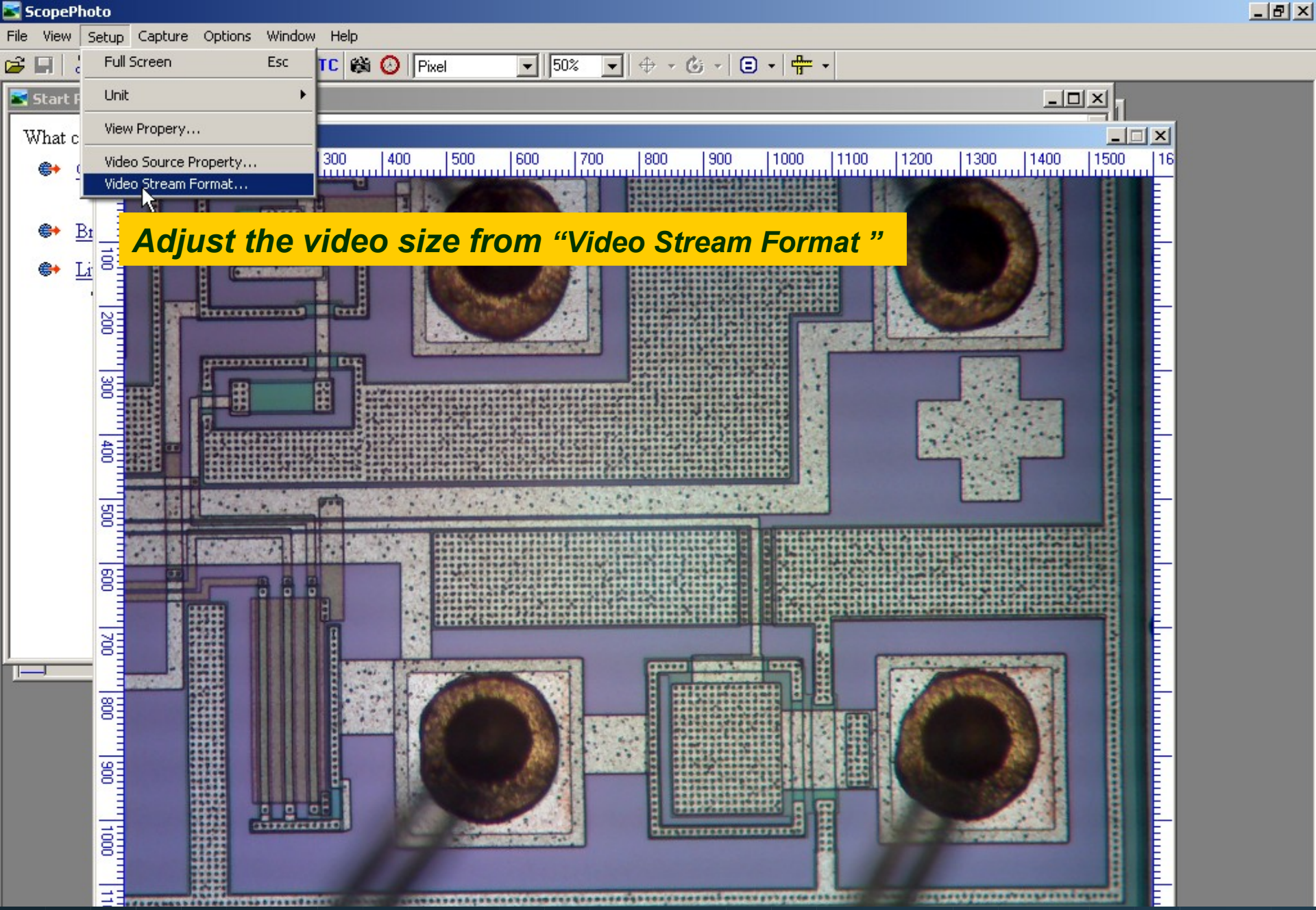
Twain Capture: You may start Twain capture with "TC" button



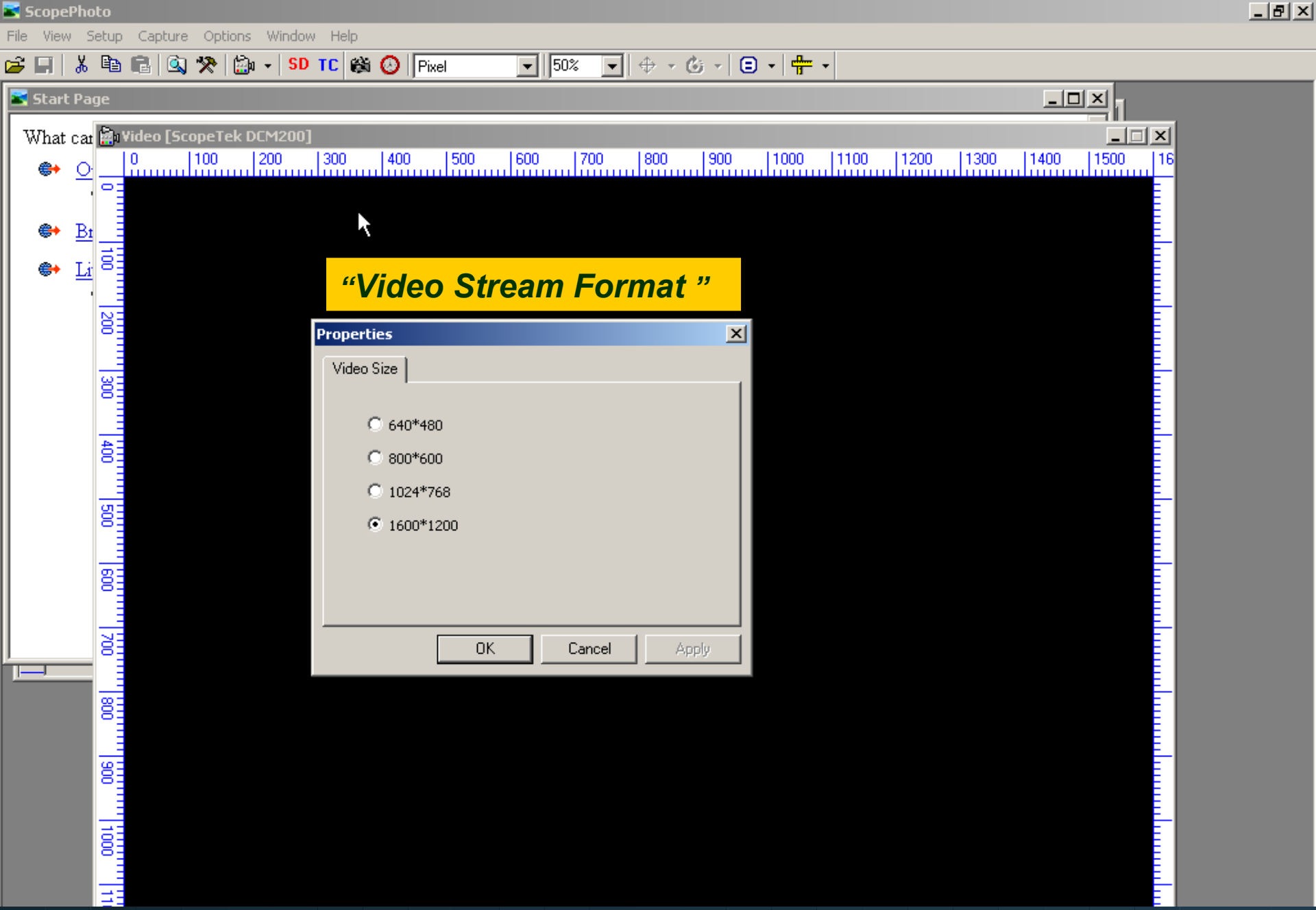
Video *Preview and Capture*



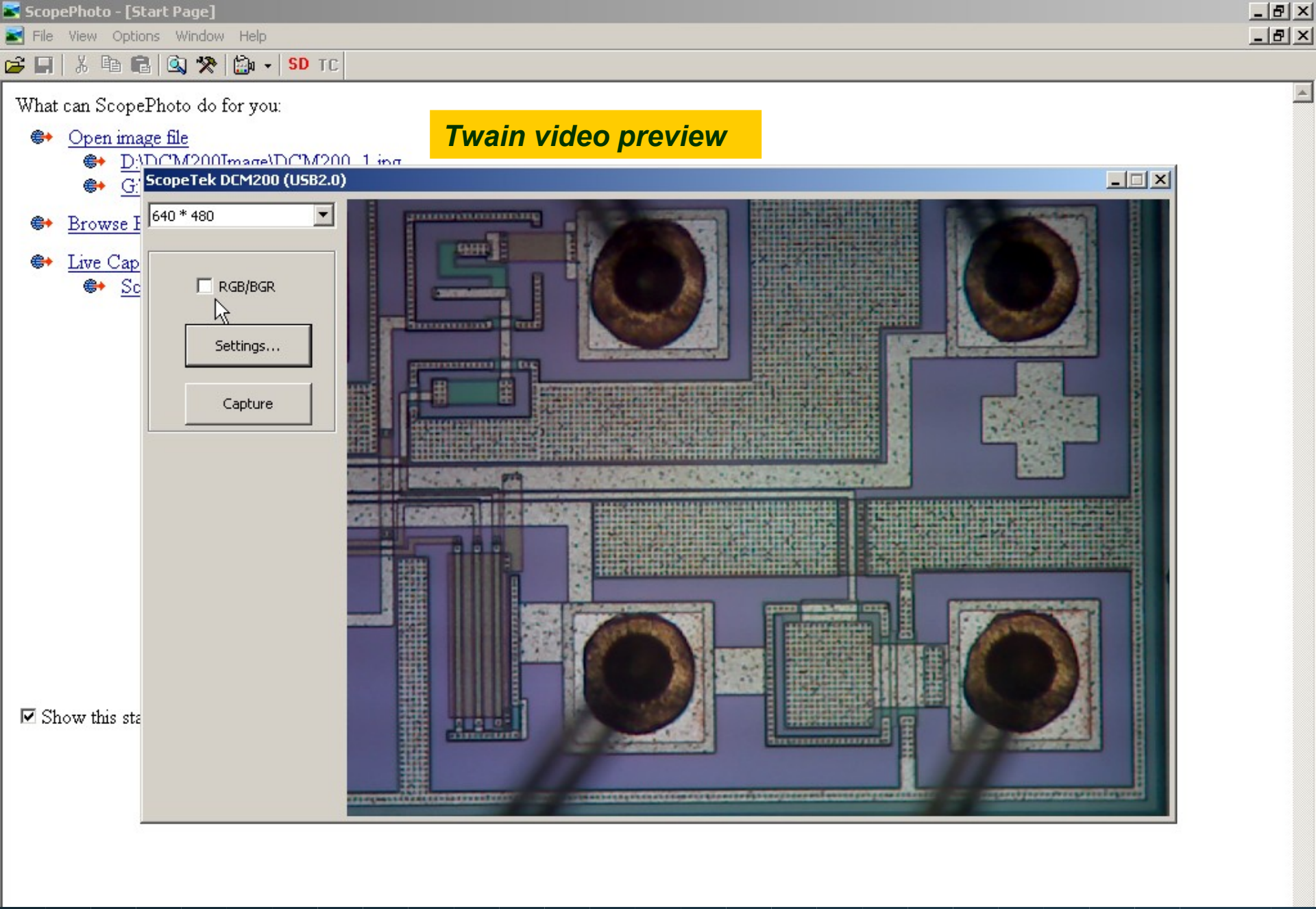
Video *Preview and Capture*



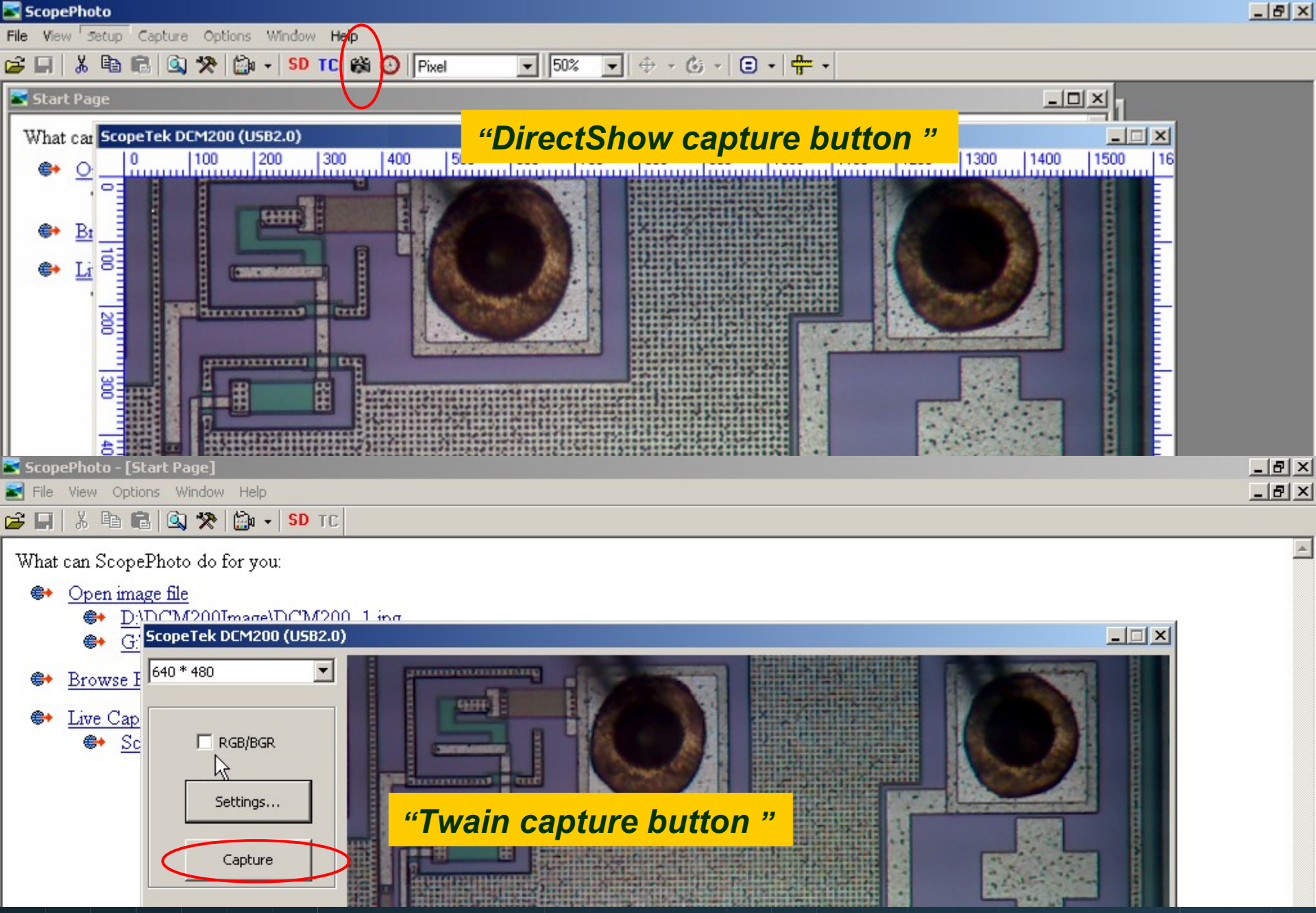
Video *Preview and Capture*



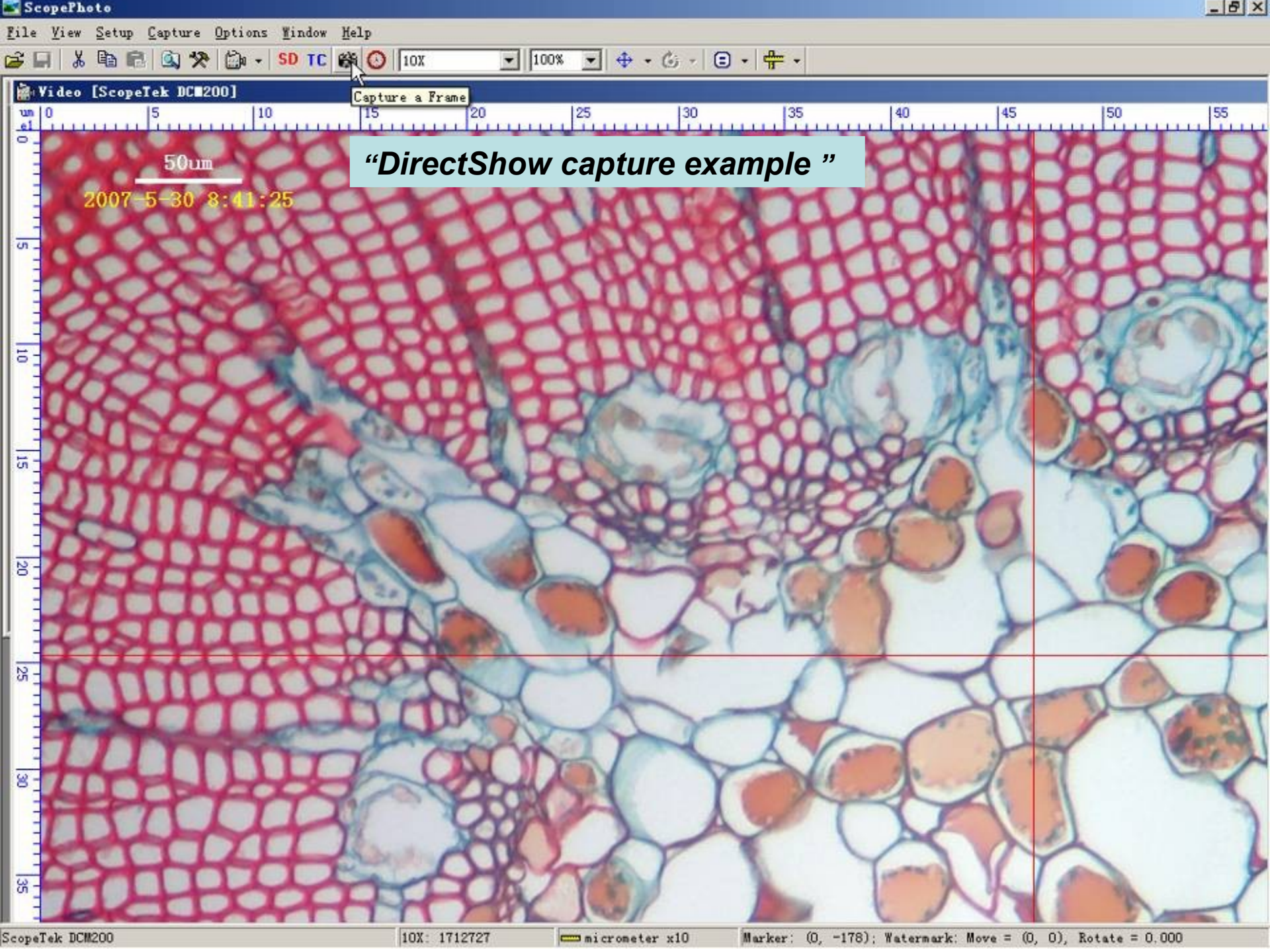
Video *Preview and Capture*

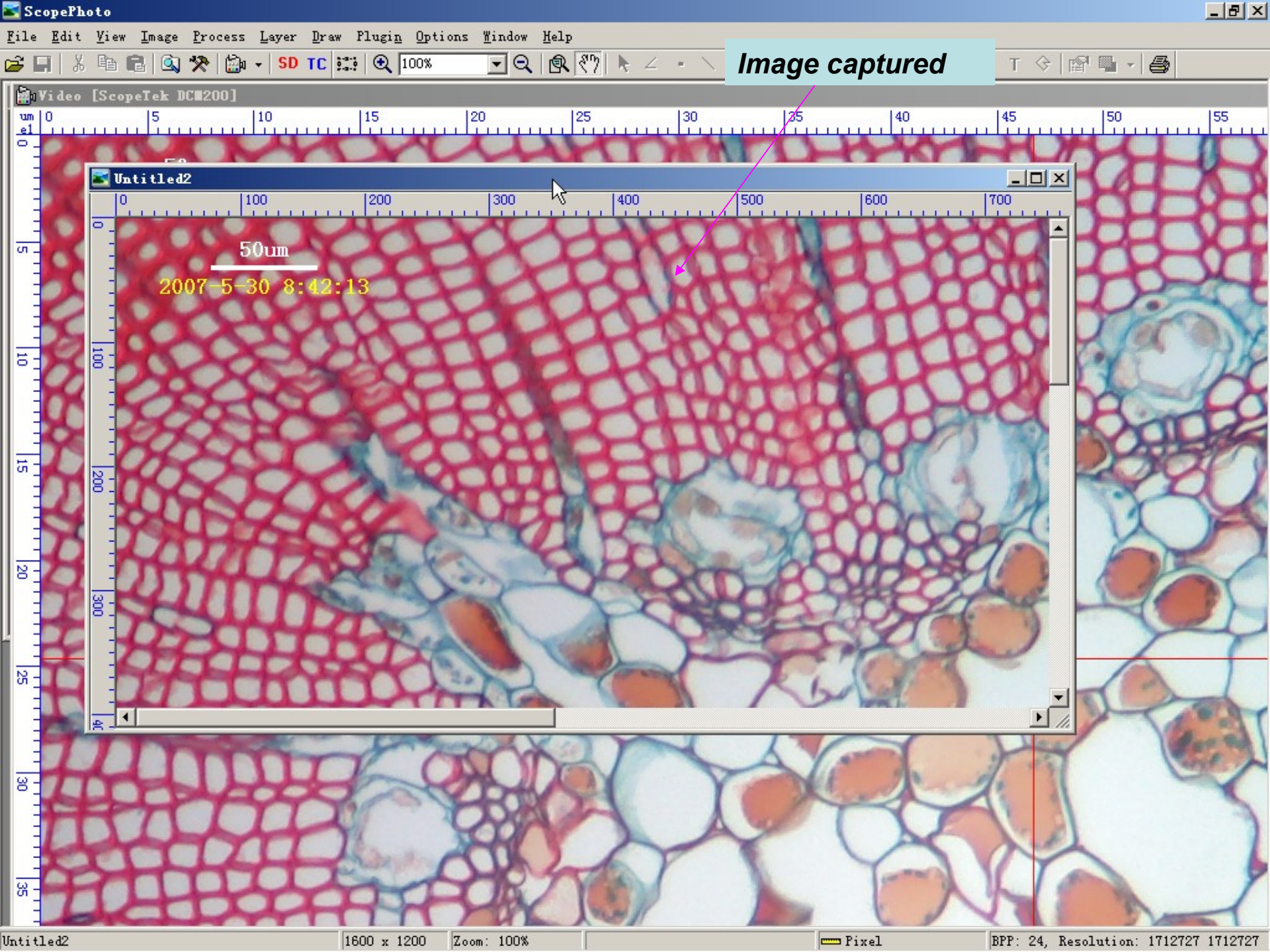


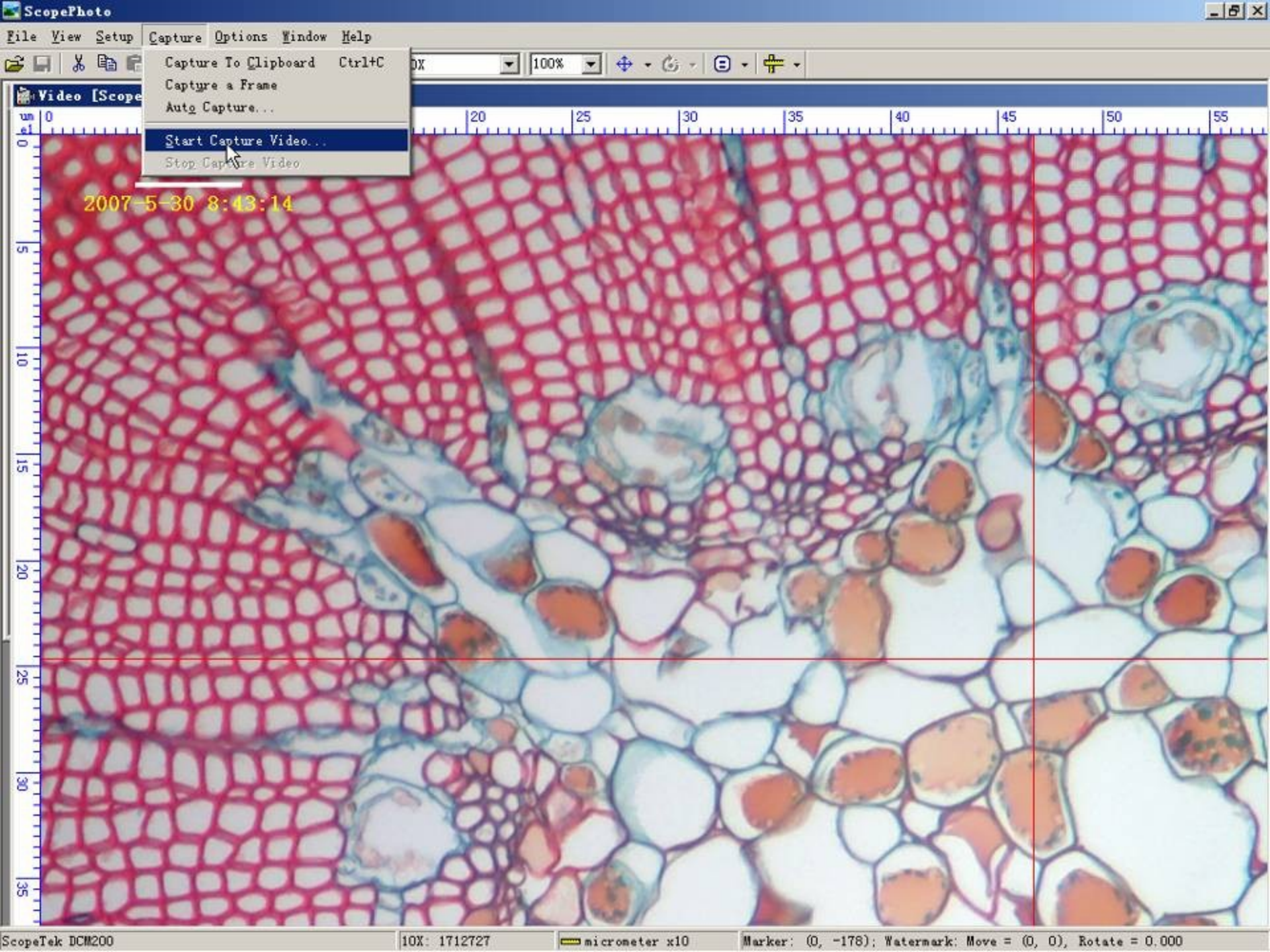
Video *Preview and Capture*

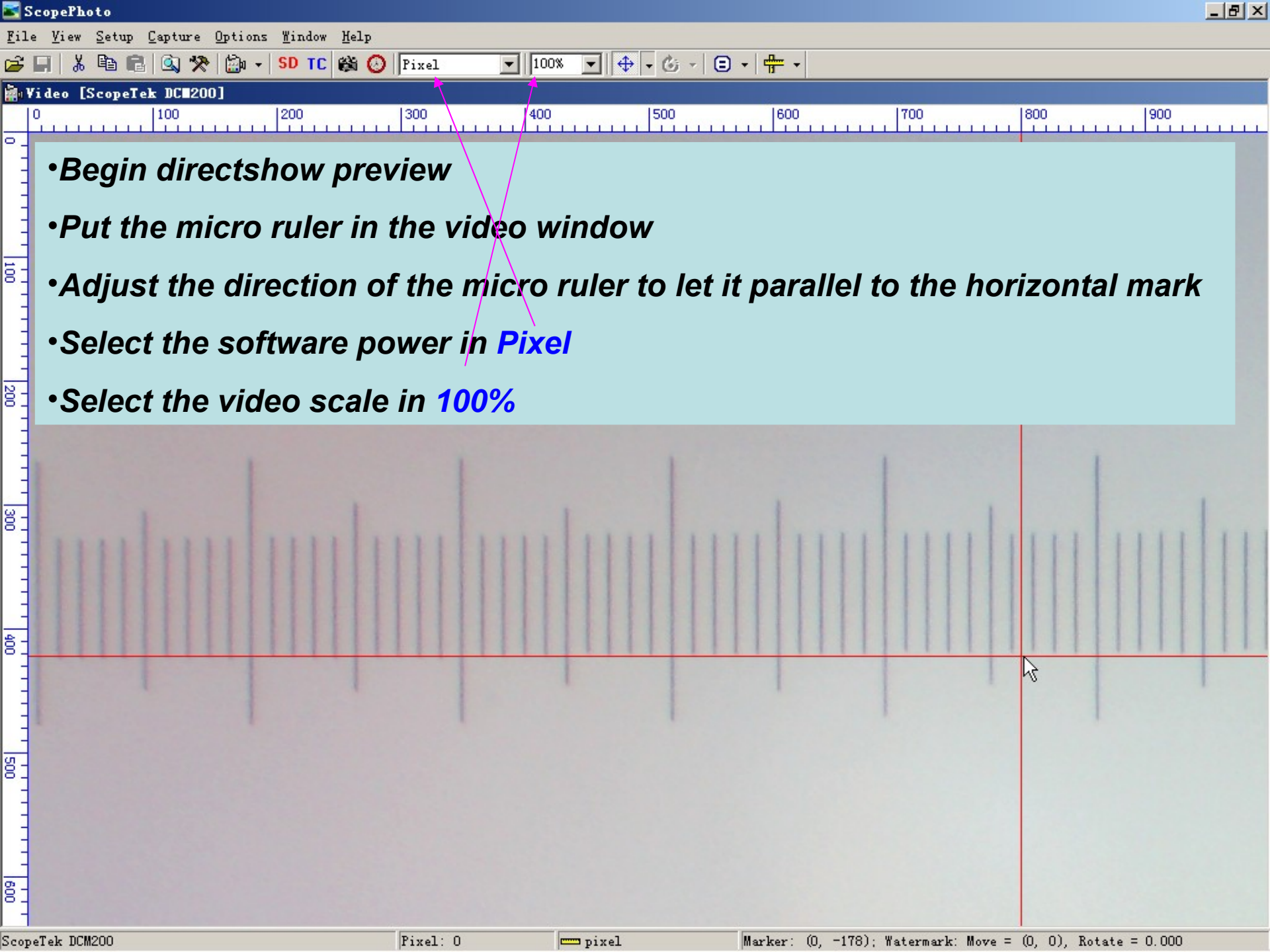


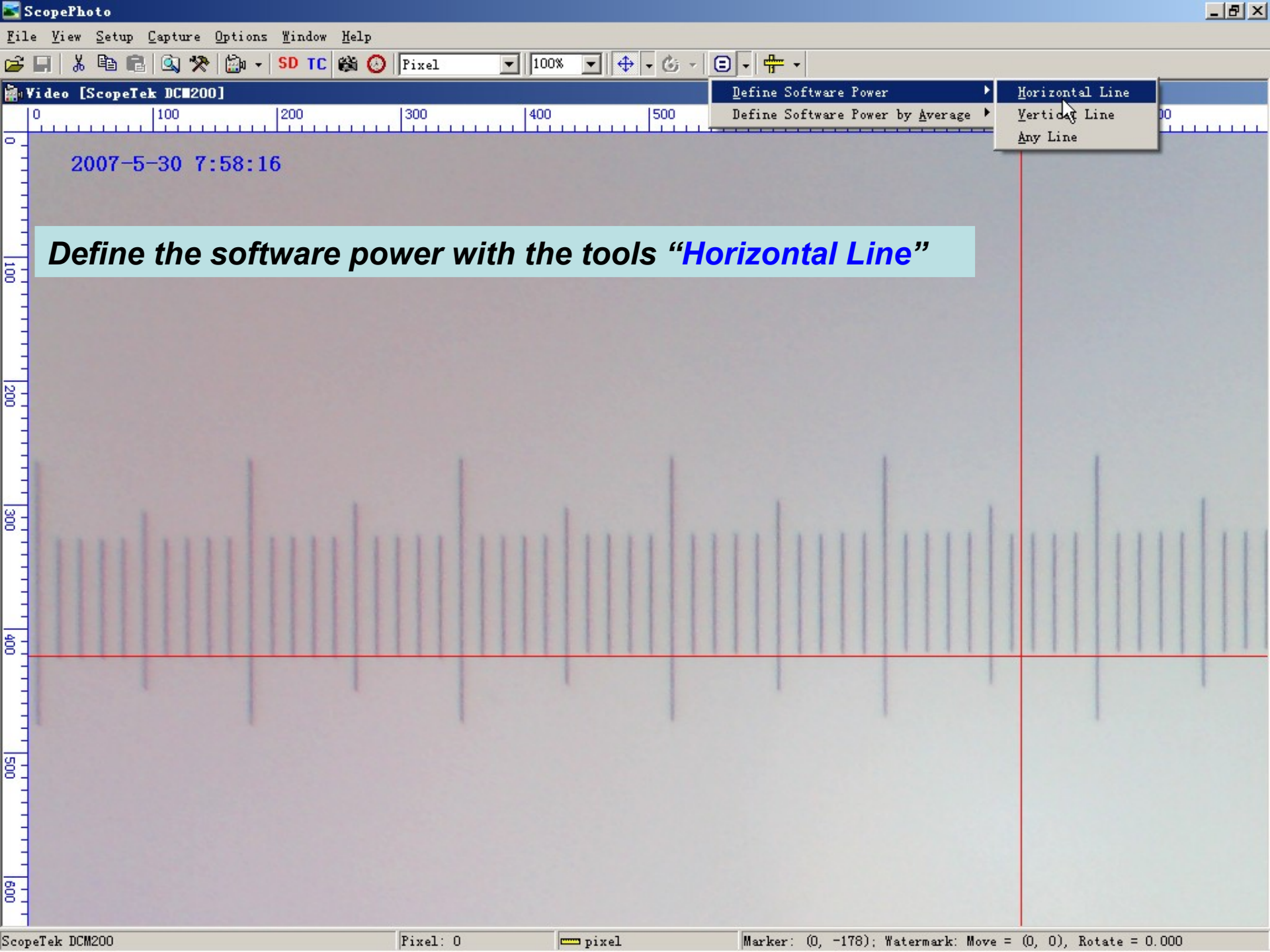
Video *Preview and Capture*

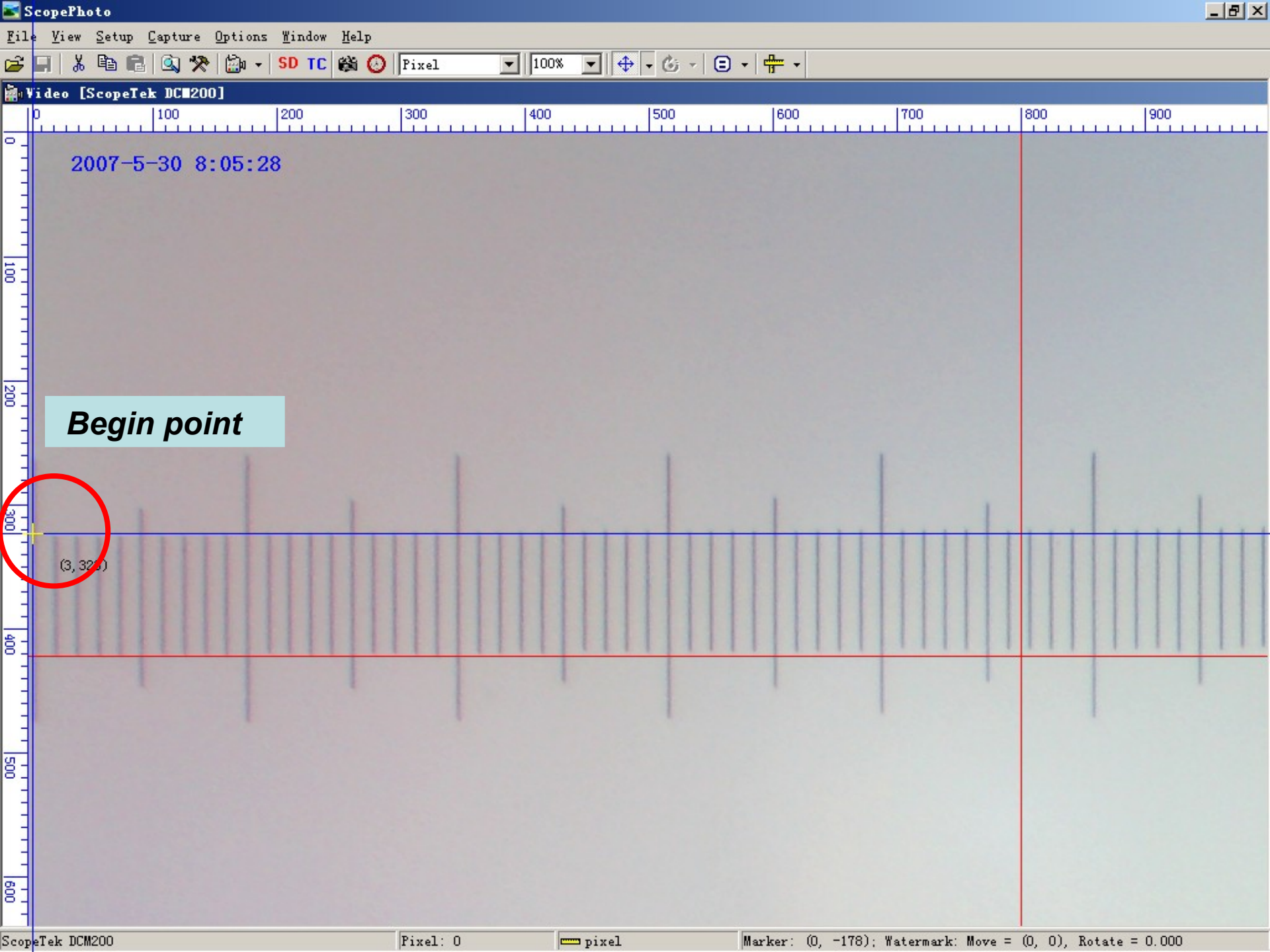

ScopePhoto
File View Setup Capture Options Window Help
SD TC
10X
100%
Capture a Frame
Video [ScopeTek DCM200]
50um
2007-5-30 8:41:25
"DirectShow capture example "
ScopeTek DCM200
10X: 1712727
micrometer x10
Marker: (0, -178); Watermark: Move = (0, 0), Rotate = 0.000

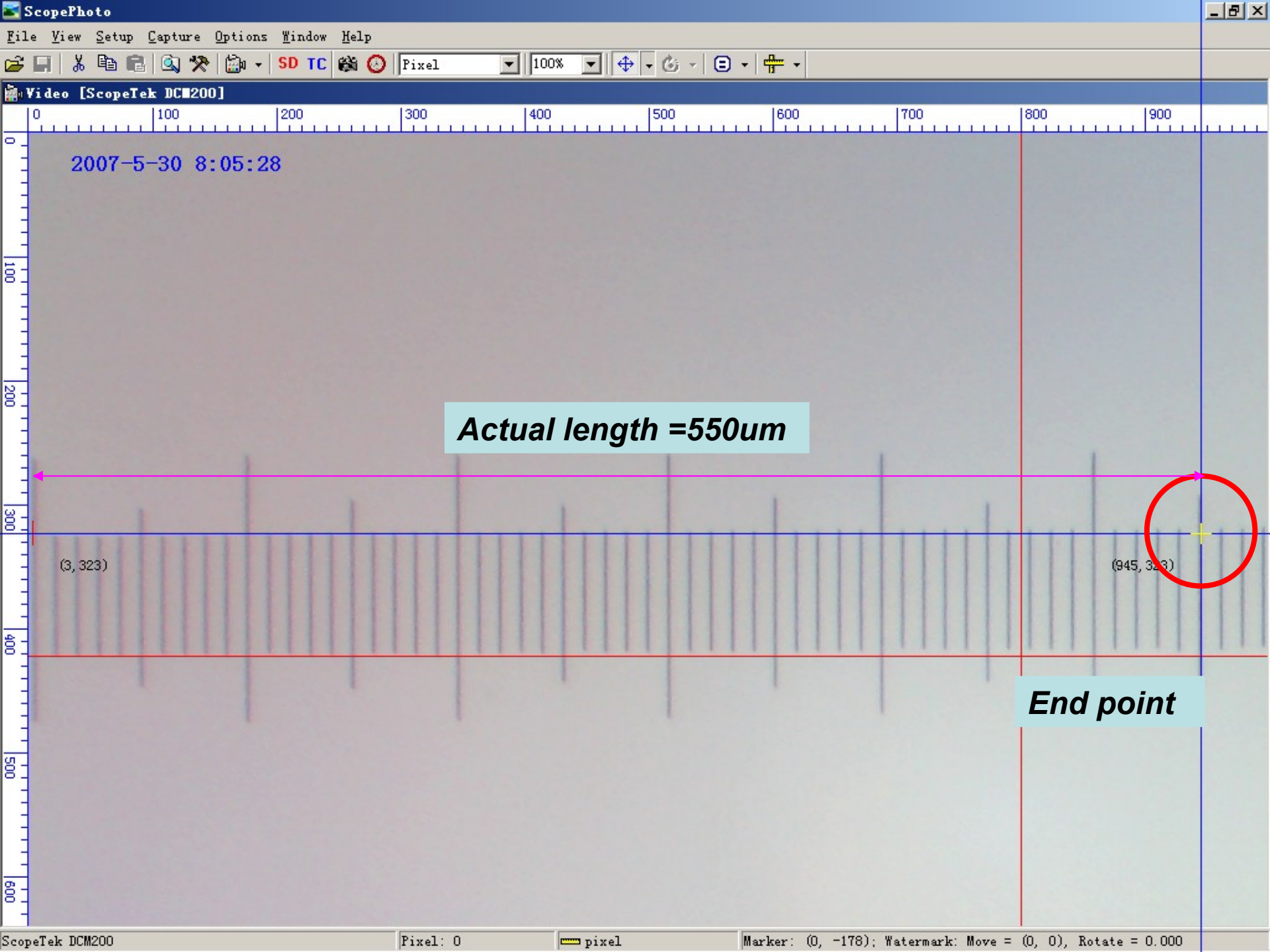

ScopePhoto
File Edit View Image Process Layer Draw Plugin Options Window Help
SD TC
100%
Image captured
Video [ScopeTek DCM200]
Untitled2
50um
2007-5-30 8:42:13
Untitled2
1600 x 1200
Zoom: 100%
Pixel
BPP: 24, Resolution: 1712727 1712727

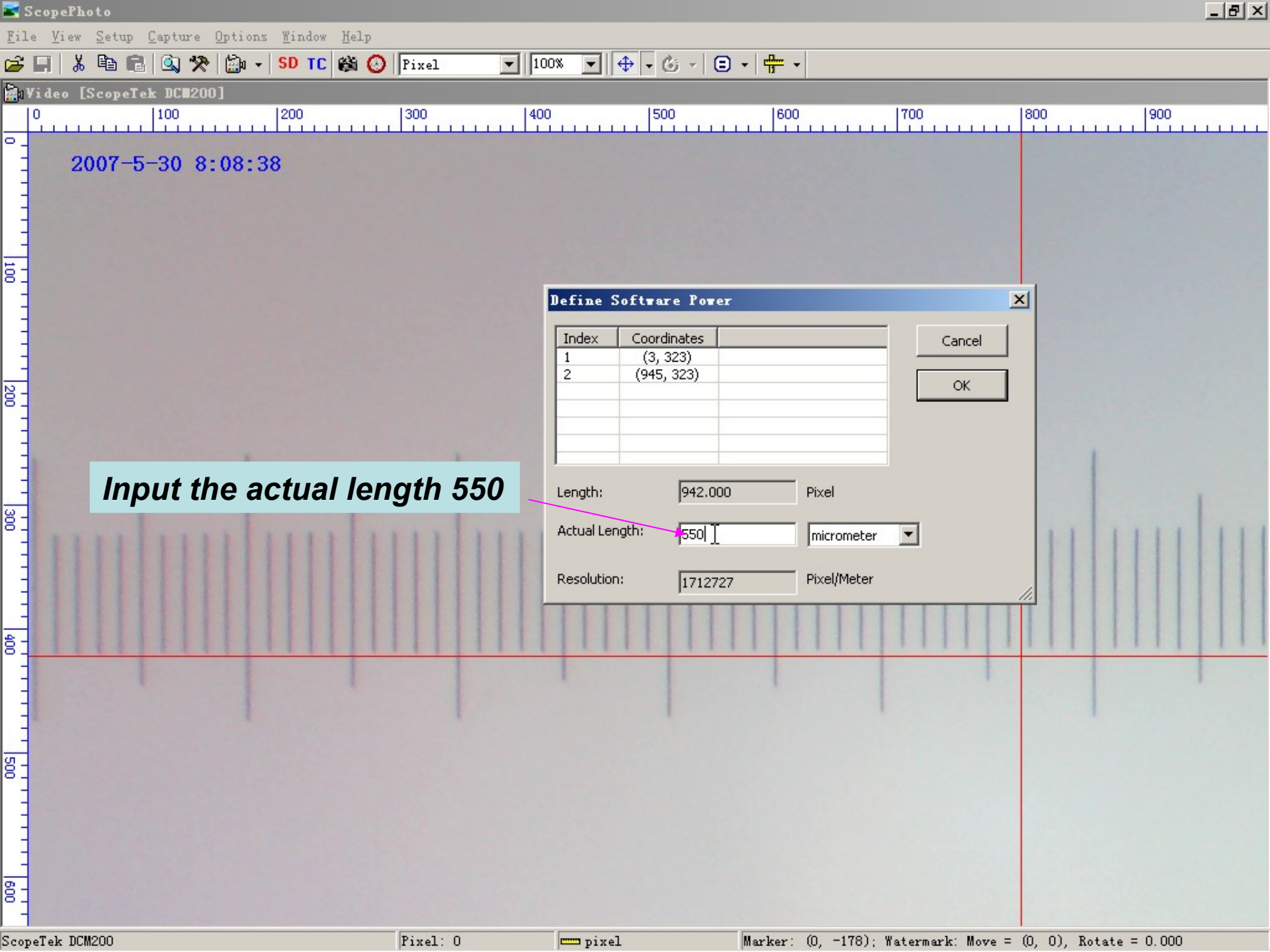

ScopePhoto
File View Setup Capture Options Window Help
Capture To Clipboard Ctrl+C
Capture a Frame
Auto Capture...
Start Capture Video...
Stop Capture Video
100%
Video [Scope
2007-5-30 8:43:14
ScopeTek DCM200
10X: 1712727
micrometer x10
Marker: (0, -178); Watermark: Move = (0, 0), Rotate = 0.000

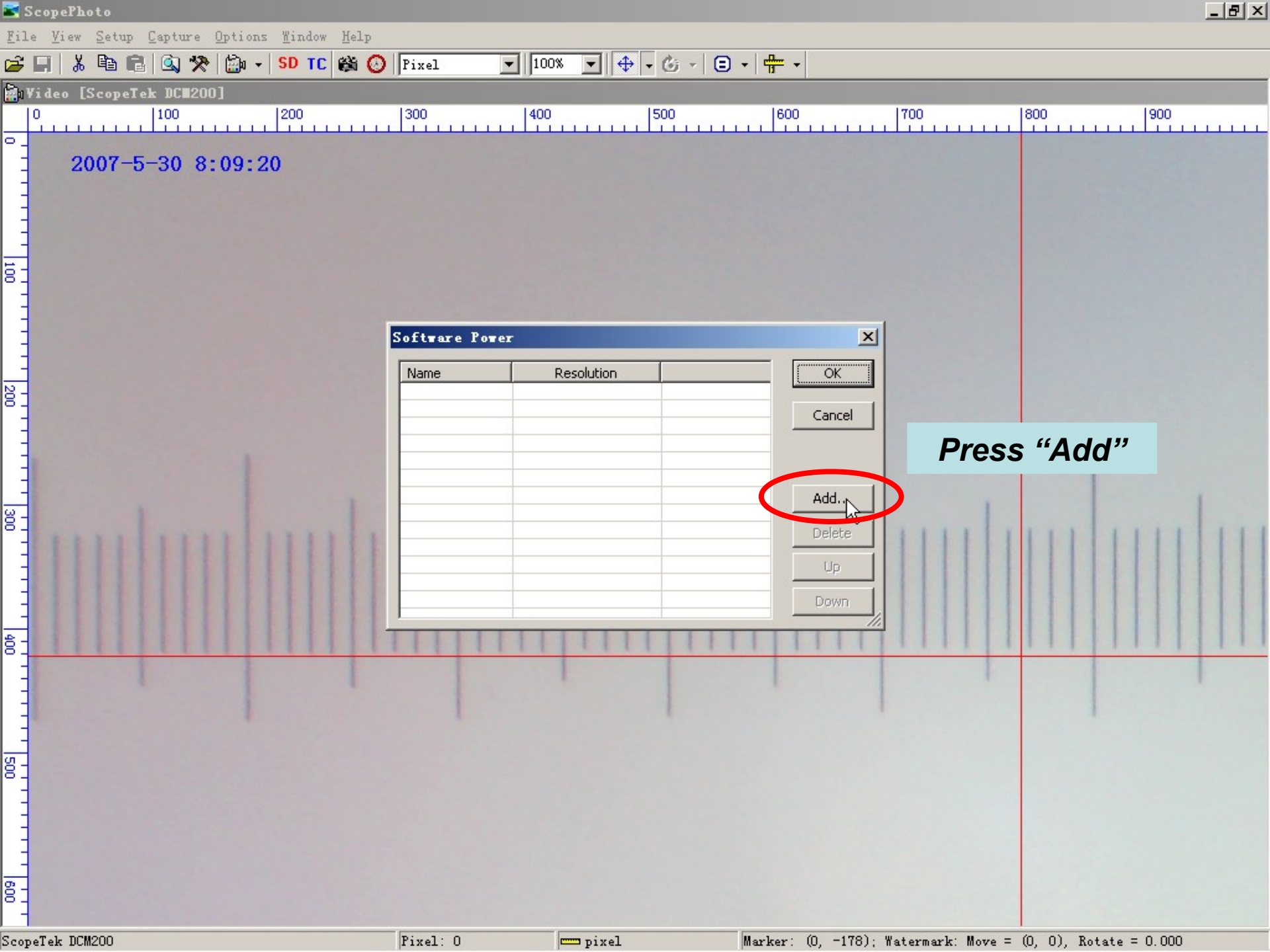

ScopePhoto
File View Setup Capture Options Window Help
SD TC
Pixel
100%
Video [ScopeTek DCM200]
•Begin directshow preview
•Put the micro ruler in the video window
•Adjust the direction of the micro ruler to let it parallel to the horizontal mark
•Select the software power in Pixel
•Select the video scale in 100%
ScopeTek DCM200
Pixel: 0
pixel
Marker: (0, -178); Watermark: Move = (0, 0), Rotate = 0.000

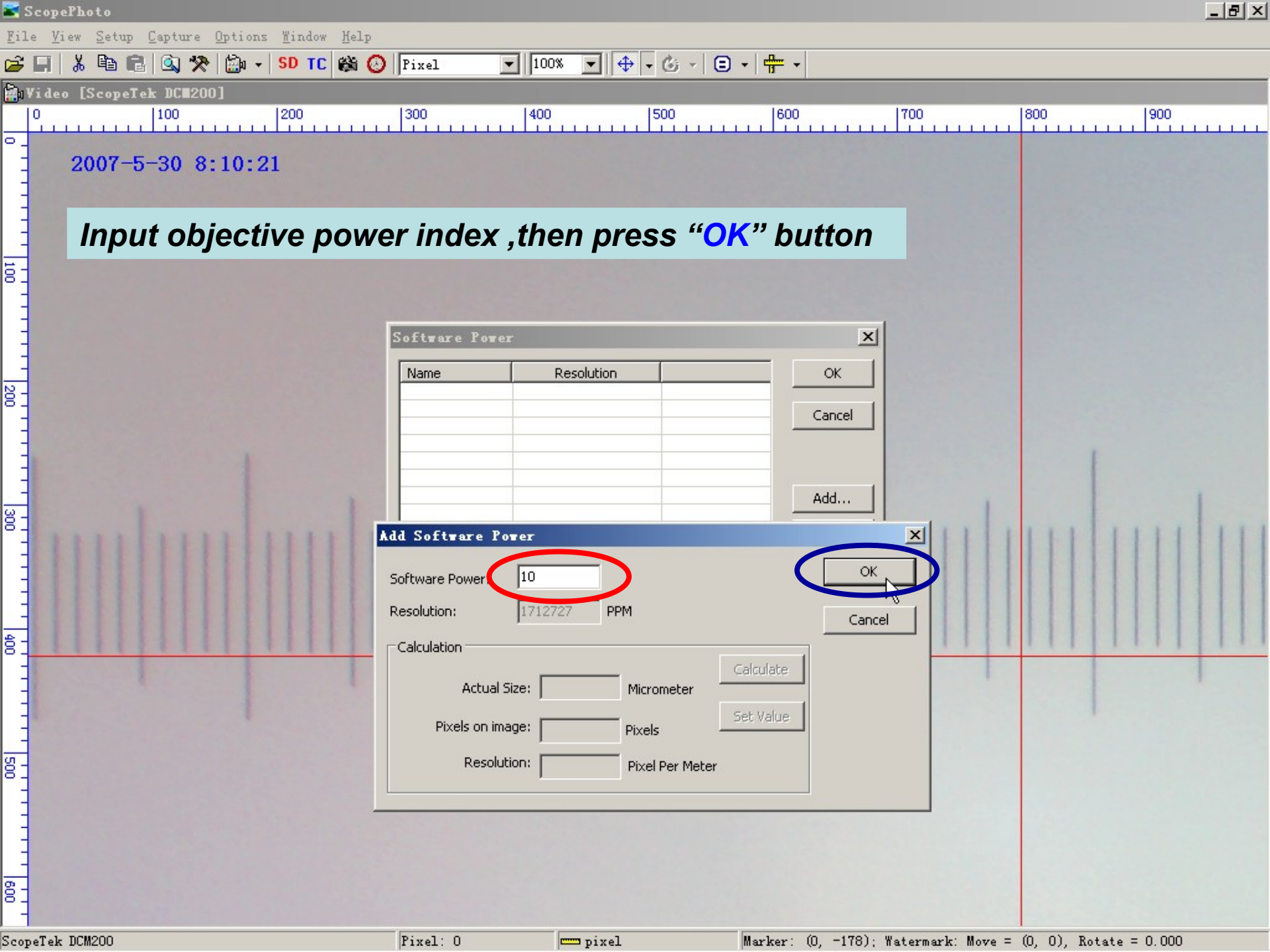

ScopePhoto
File View Setup Capture Options Window Help
SD TC
Pixel
100%
Video [ScopeTek DCM200]
Define Software Power
Define Software Power by Average
Horizontal Line
Vertical Line
Any Line
2007-5-30 7:58:16
Define the software power with the tools "Horizontal Line"
ScopeTek DCM200
Pixel: 0
pixel
Marker: (0, -178); Watermark: Move = (0, 0), Rotate = 0.000

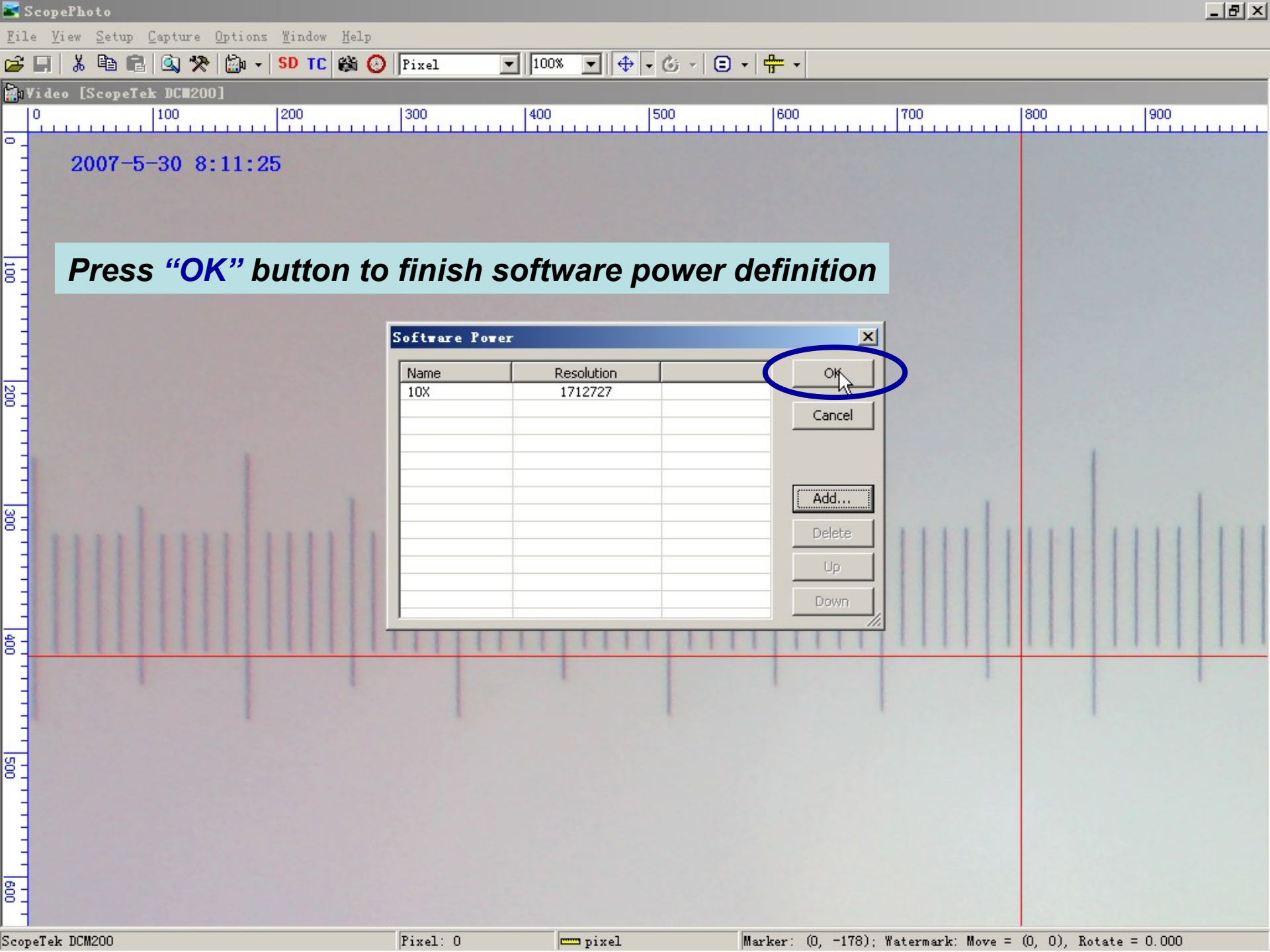

ScopePhoto
File View Setup Capture Options Window Help
SD TC
Pixel
100%
Video [ScopeTek DCM200]
0 100 200 300 400 500 600 700 800 900
2007-5-30 8:05:28
Begin point
(3, 323)
ScopeTek DCM200
Pixel: 0
pixel
Marker: (0, -178); Watermark: Move = (0, 0), Rotate = 0.000

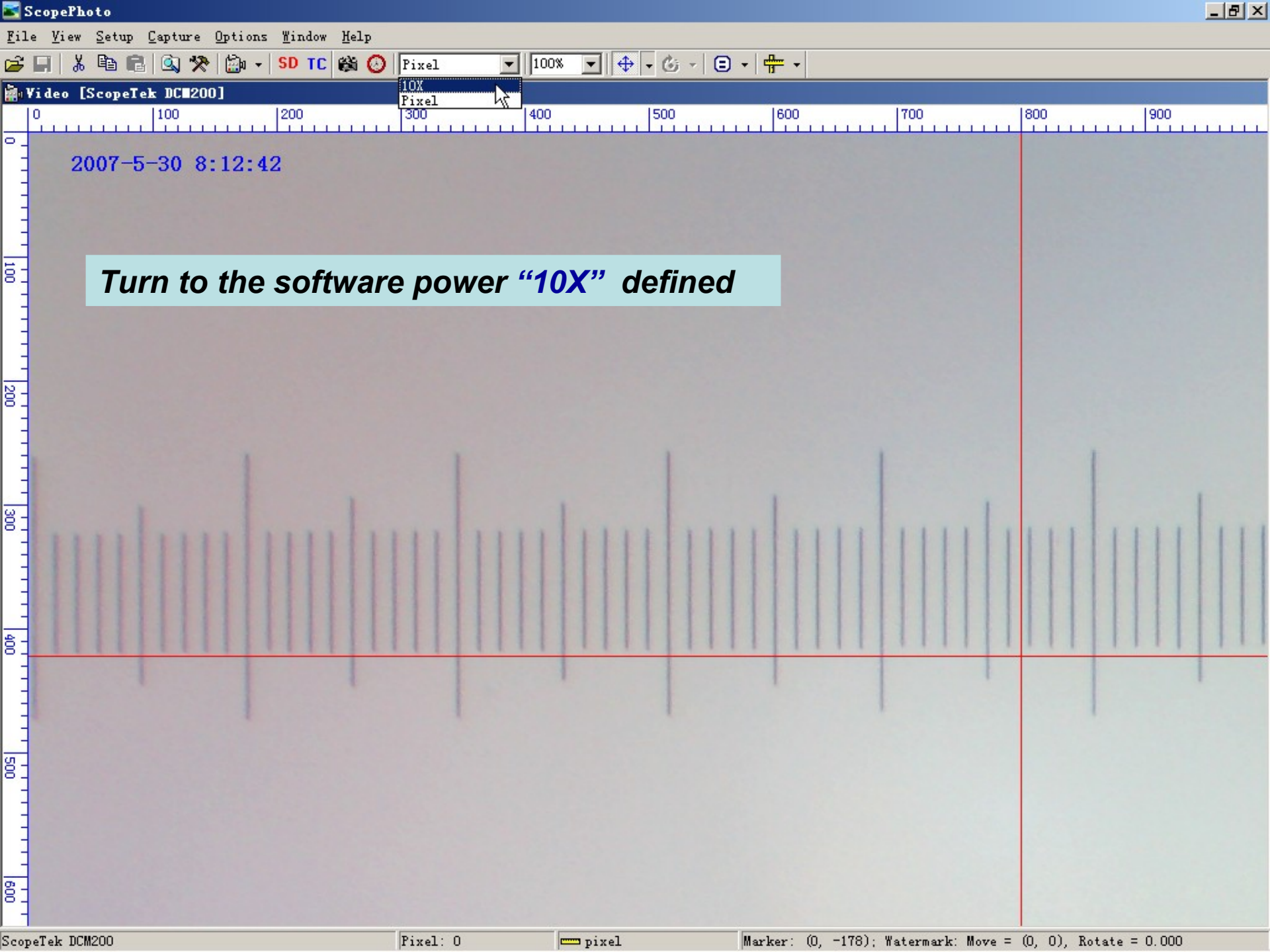

ScopePhoto
File View Setup Capture Options Window Help
SD TC
Pixel
100%
Video [ScopeTek DCM200]
2007-5-30 8:05:28
Actual length =550um
(3, 323)
End point
ScopeTek DCM200
Pixel: 0
pixel
Marker: (0, -178); Watermark: Move = (0, 0), Rotate = 0.000

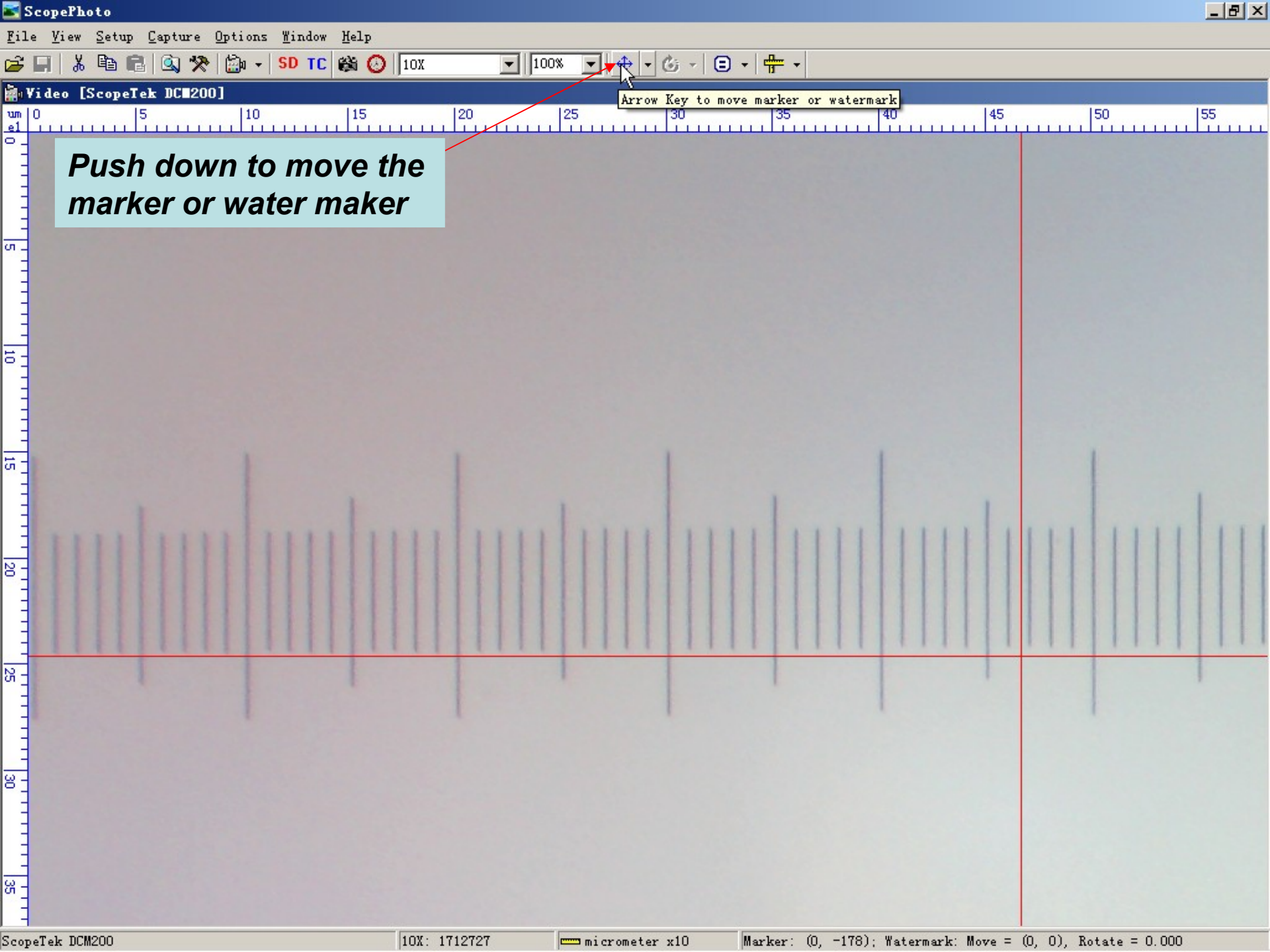

ScopePhoto
File View Setup Capture Options Window Help
SD TC
Pixel
100%
Video [ScopeTek DCM200]
2007-5-30 8:08:38
Define Software Power
Index
Coordinates
1
(3, 323)
2
(945, 323)
Cancel
OK
Length:
942.000
Pixel
Actual Length:
550
micrometer
Resolution:
1712727
Pixel/Meter
Input the actual length 550
ScopeTek DCM200
Pixel: 0
pixel
Marker: (0, -178); Watermark: Move = (0, 0), Rotate = 0.000

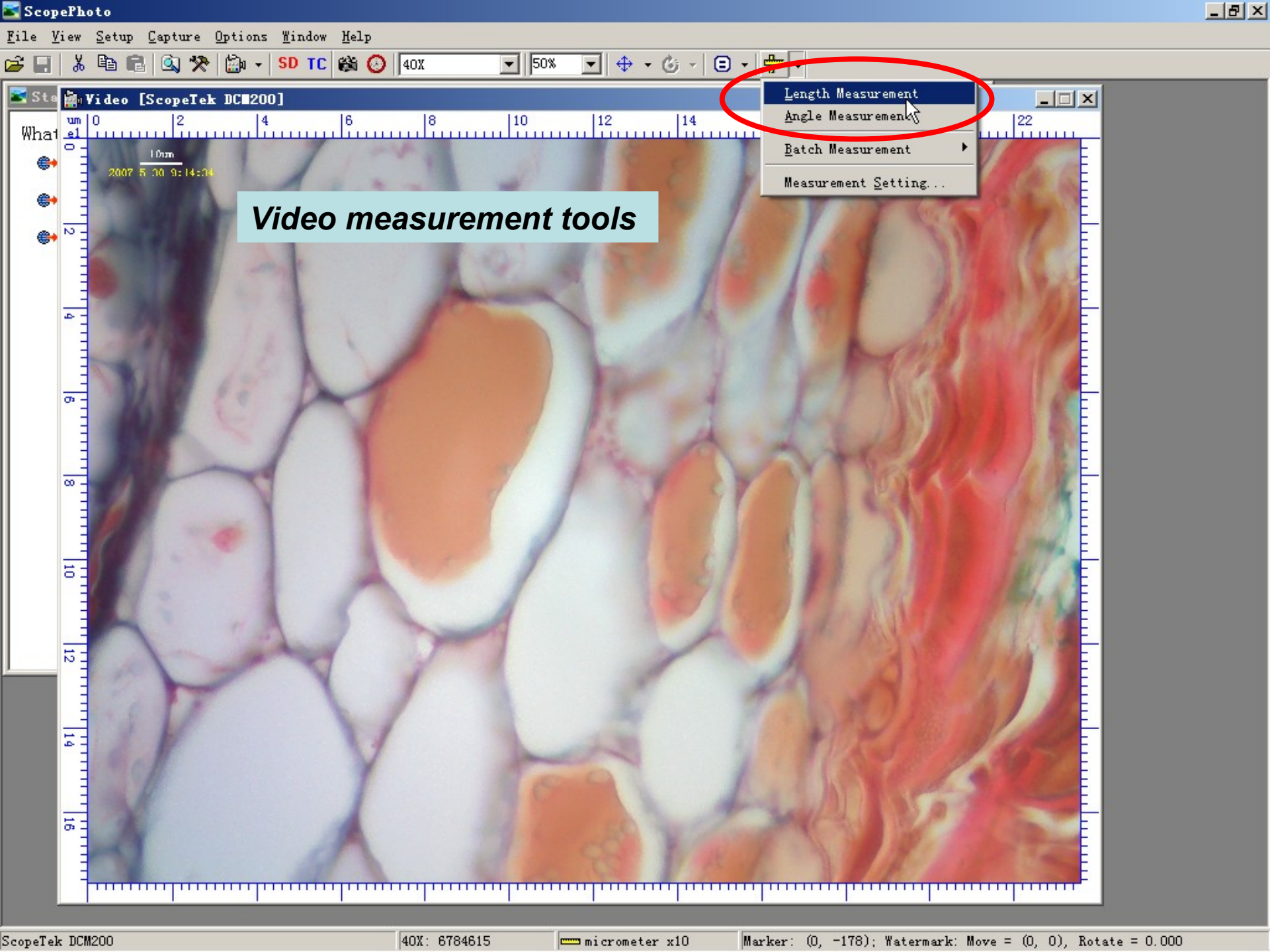

ScopePhoto
File View Setup Capture Options Window Help
SD TC
Pixel
100%
Video [ScopeTek DCM200]
2007-5-30 8:09:20
Software Power
Name
Resolution
OK
Cancel
Add..
Delete
Up
Down
Press “Add”
ScopeTek DCM200
Pixel: 0
pixel
Marker: (0, -178); Watermark: Move = (0, 0), Rotate = 0.000

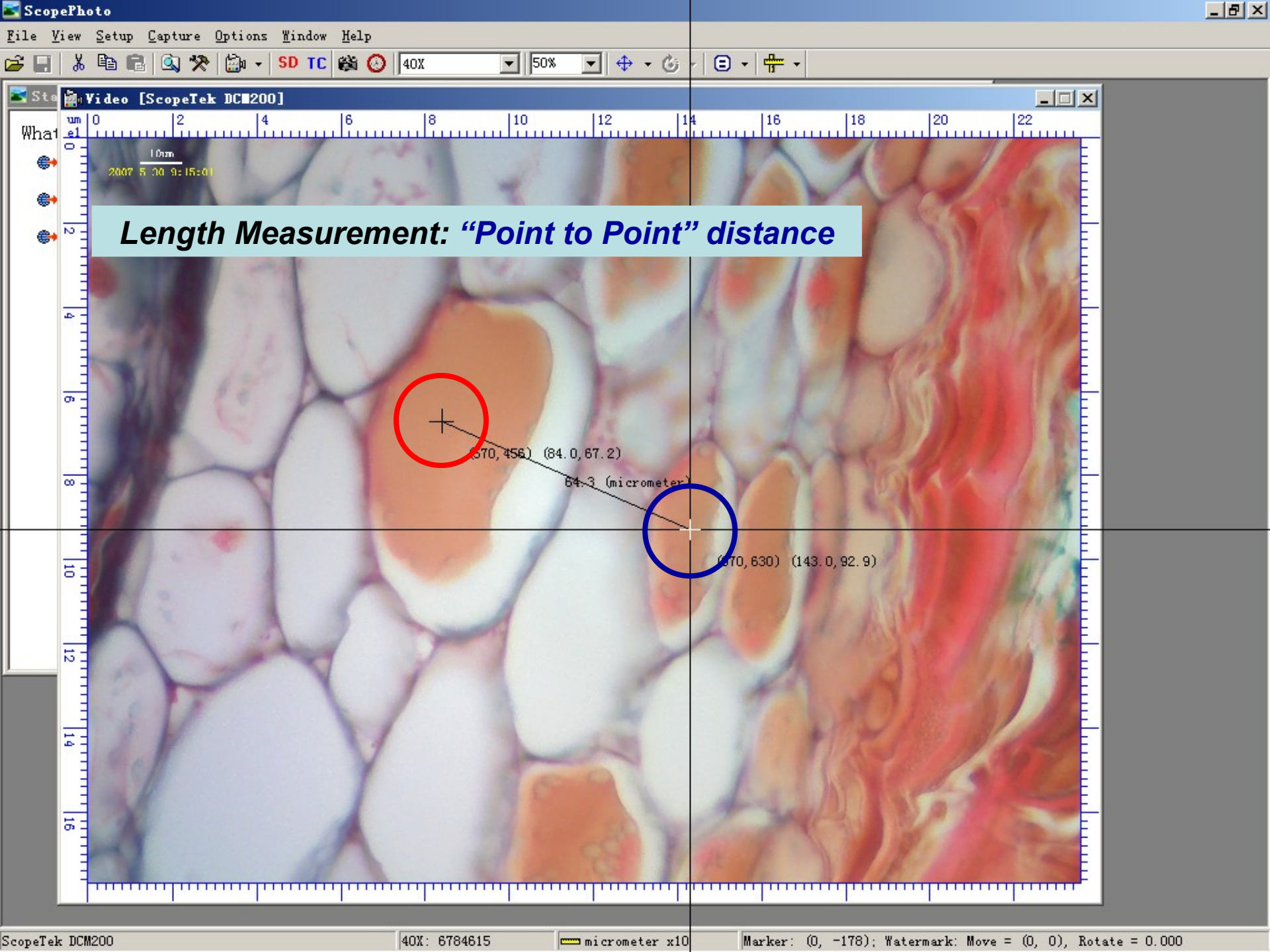

ScopePhoto
File View Setup Capture Options Window Help
Pixel
100%
Video [ScopeTek DCM200]
2007-5-30 8:10:21
Input objective power index ,then press "OK" button
Software Power
Name
Resolution
OK
Cancel
Add...
Add Software Power
Software Power
10
Resolution:
1712727
PPM
OK
Cancel
Calculation
Actual Size:
Micrometer
Calculate
Pixels on image:
Pixels
Set Value
Resolution:
Pixel Per Meter
ScopeTek DCM200
Pixel: 0
pixel
Marker: (0, -178); Watermark: Move = (0, 0), Rotate = 0.000

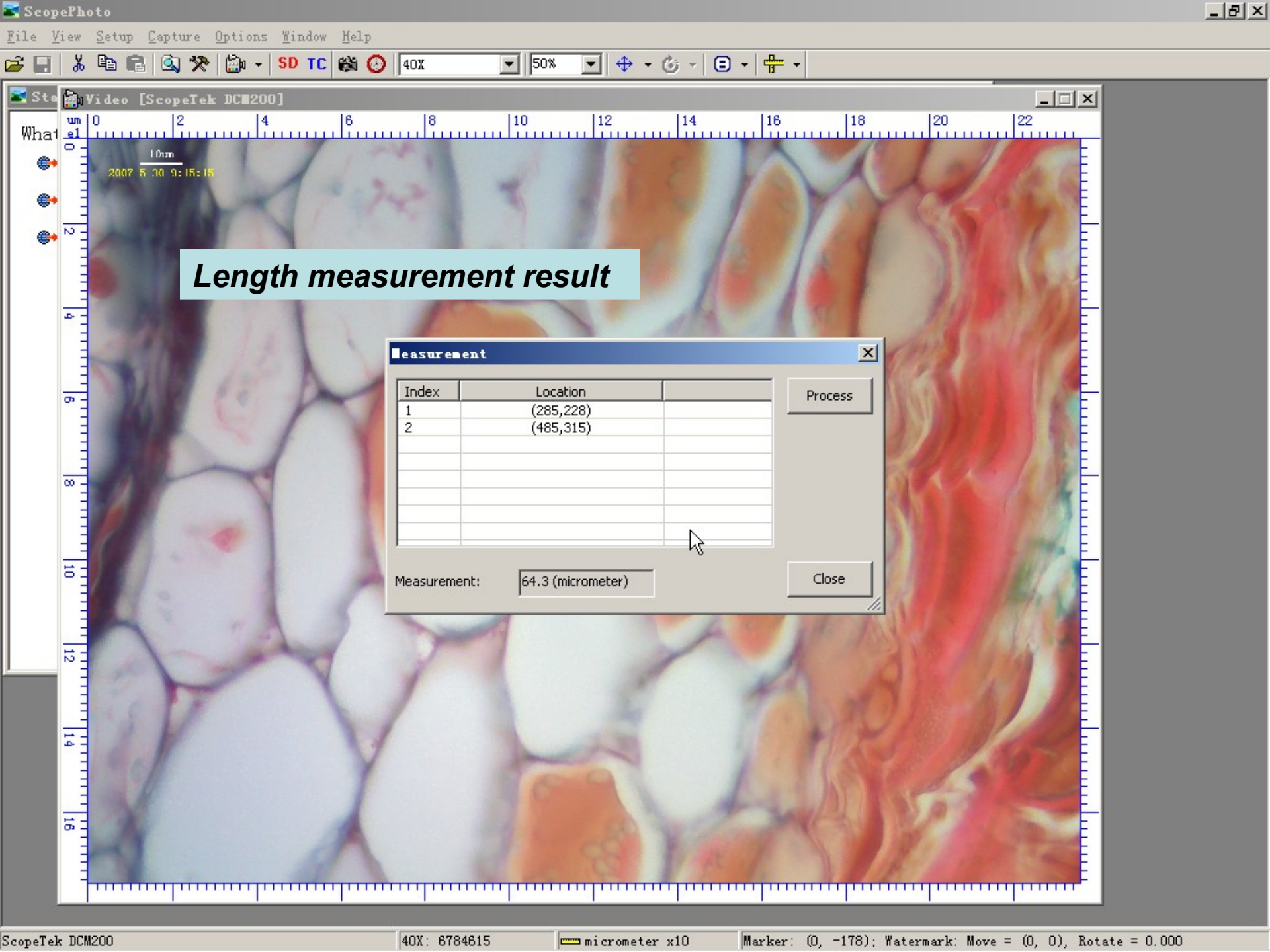

ScopePhoto
File View Setup Capture Options Window Help
SD TC
Pixel
100%
Video [ScopeTek DCM200]
2007-5-30 8:11:25
Press "OK" button to finish software power definition
Software Power
Name
Resolution
10X
1712727
OK
Cancel
Add...
Delete
Up
Down
ScopeTek DCM200
Pixel: 0
pixel
Marker: (0, -178); Watermark: Move = (0, 0), Rotate = 0.000

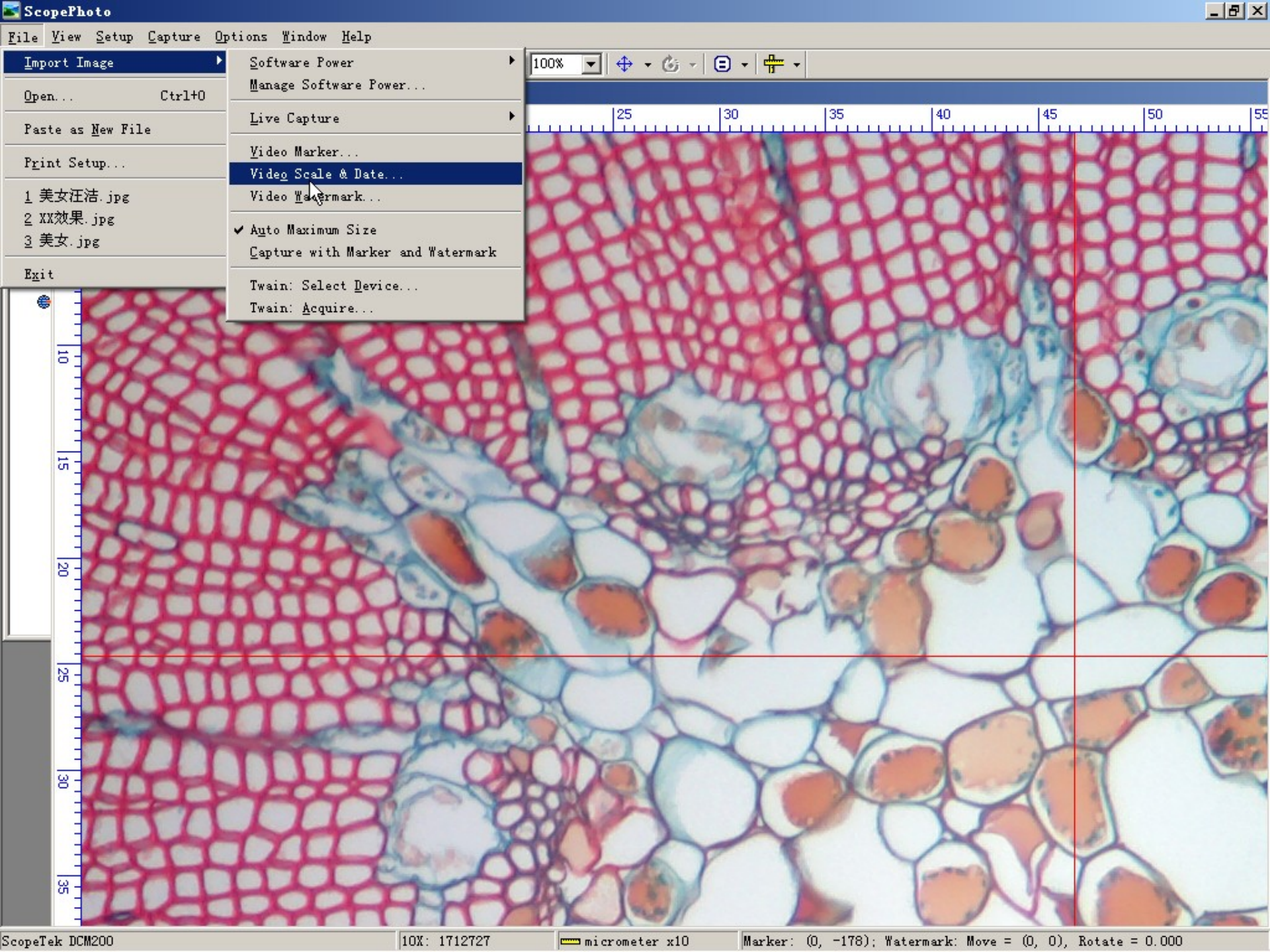

ScopePhoto
File View Setup Capture Options Window Help
SD TC
Pixel
100%
10X
Pixel
Video [ScopeTek DCM200]
0 100 200 300 400 500 600 700 800 900
2007-5-30 8:12:42
Turn to the software power "10X" defined
ScopeTek DCM200
Pixel: 0
pixel
Marker: (0, -178); Watermark: Move = (0, 0), Rotate = 0.000

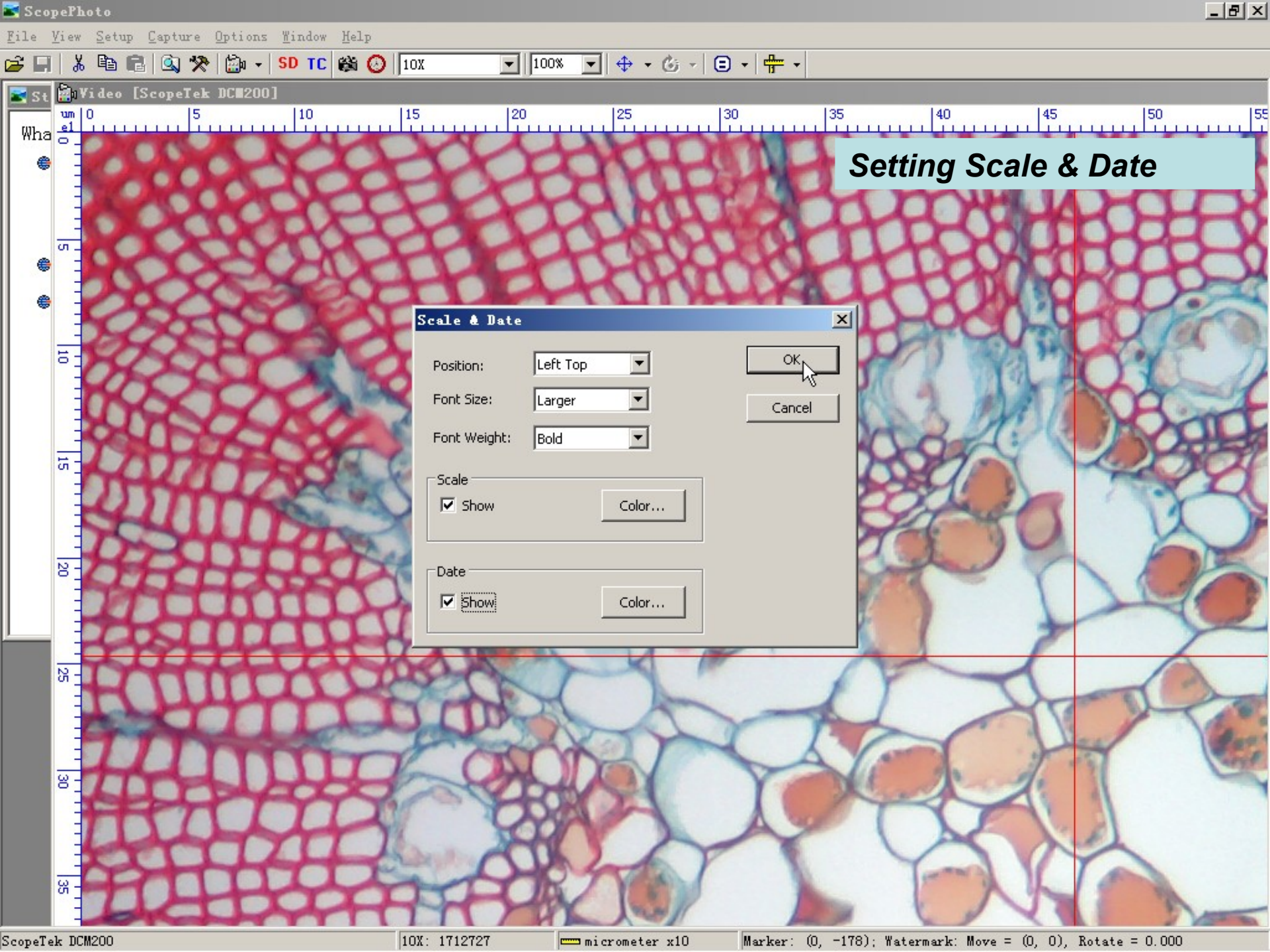

ScopePhoto
File View Setup Capture Options Window Help
SD TC
10X
100%
Video [ScopeTek DCM200]
Arrow Key to move marker or watermark
Push down to move the marker or water maker
ScopeTek DCM200
10X: 1712727
micrometer x10
Marker: (0, -178); Watermark: Move = (0, 0), Rotate = 0.000

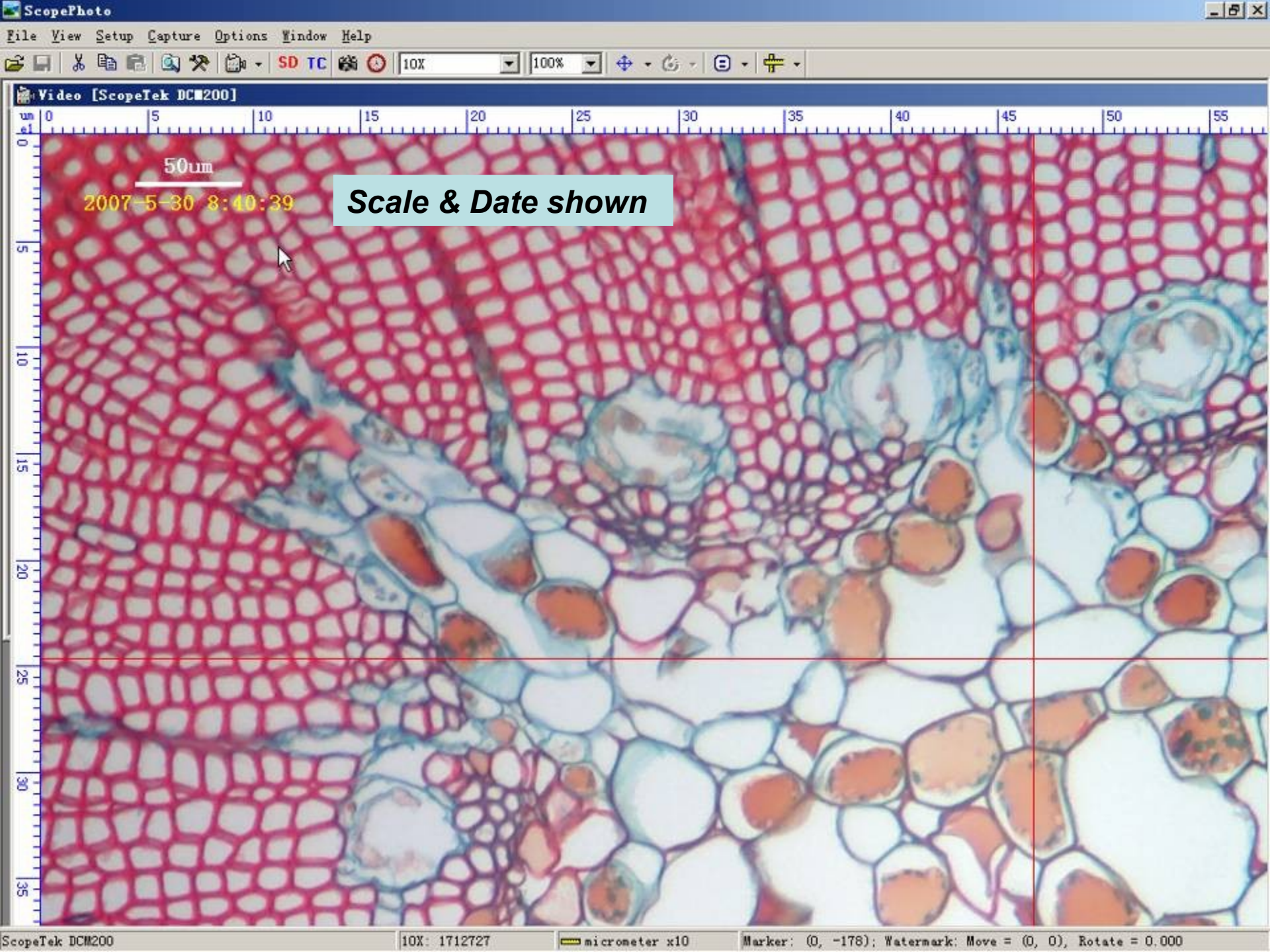

ScopePhoto
File View Setup Capture Options Window Help
SD TC
40X
50%
Video [ScopeTek DCM200]
Length Measurement
Angle Measurement
Batch Measurement
Measurement Setting...
Video measurement tools
ScopeTek DCM200
40X: 6784615
micrometer x10
Marker: (0, -178); Watermark: Move = (0, 0), Rotate = 0.000

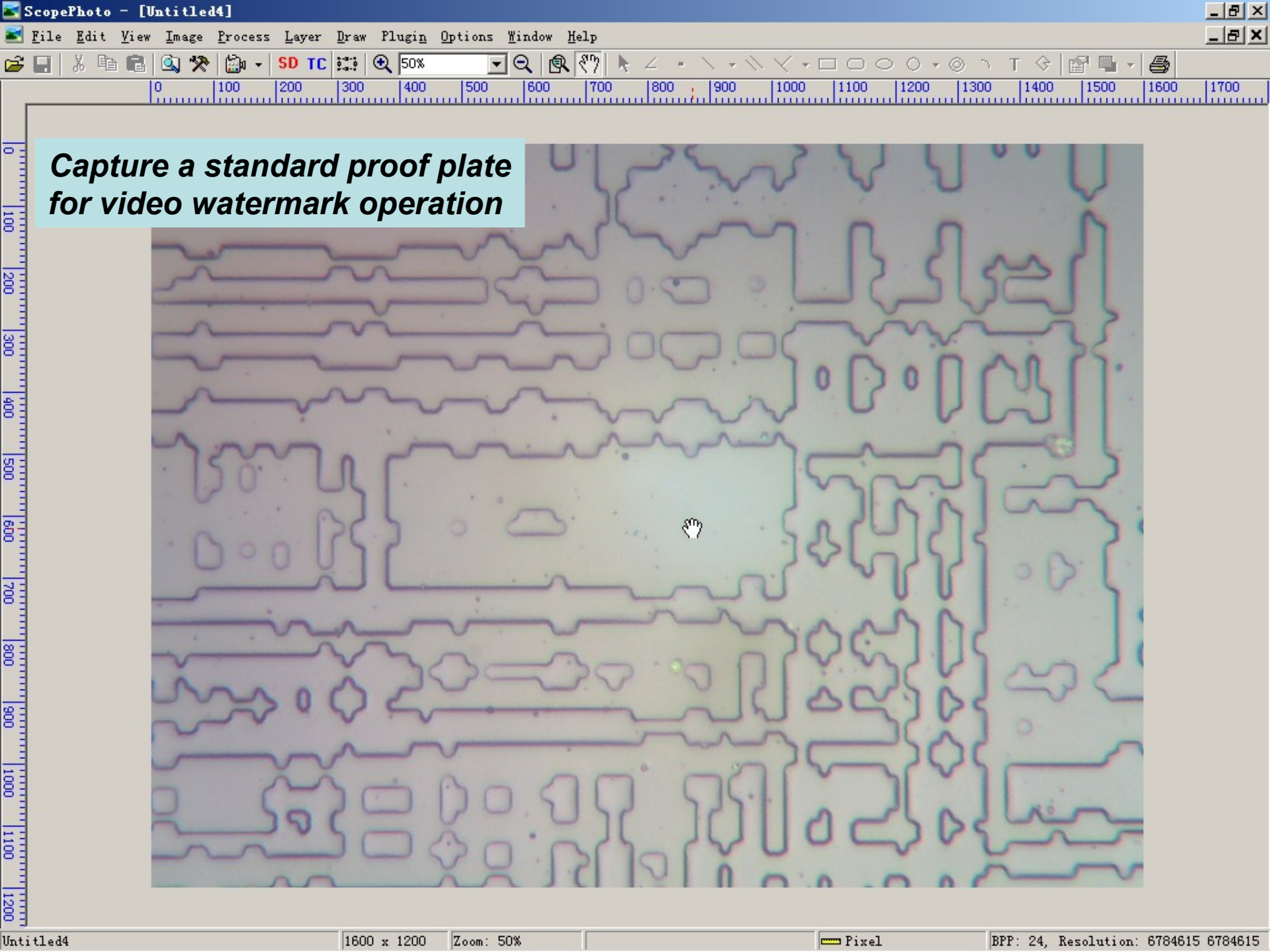

ScopePhoto
File View Setup Capture Options Window Help
SD TC
40X
50%
Video [ScopeTek DCM200]
Length Measurement: "Point to Point" distance
(370,456) (84.0,67.2)
64.3 (micrometer)
(370,630) (143.0,92.9)
ScopeTek DCM200
40X: 6784615
micrometer x10
Marker: (0, -178); Watermark: Move = (0, 0), Rotate = 0.000


ScopePhoto
File View Setup Capture Options Window Help
40X
50%
Video [ScopeTek DCM200]
Length measurement result
Measurement
Index
Location
1
(285,228)
2
(485,315)
Process
Close
Measurement:
64.3 (micrometer)
ScopeTek DCM200
40X: 6784615
micrometer x10
Marker: (0, -178); Watermark: Move = (0, 0), Rotate = 0.000


ScopePhoto
File View Setup Capture Options Window Help
Import Image
Open... Ctrl+O
Paste as New File
Print Setup...
1 美女汪洁.jpg
2 XX效果.jpg
3 美女.jpg
Exit
Software Power
Manage Software Power...
Live Capture
Video Marker...
Video Scale & Date...
Video Watermark...
Auto Maximum Size
Capture with Marker and Watermark
Twain: Select Device...
Twain: Acquire...
100%
25 30 35 40 45 50 55
10 15 20 25 30 35
ScopeTek DCM200
10X: 1712727
micrometer x10
Marker: (0, -178); Watermark: Move = (0, 0), Rotate = 0.000


ScopePhoto
File View Setup Capture Options Window Help
SD TC
10X
100%
Video [ScopeTek DCM200]
Setting Scale & Date
Scale & Date
Position:
Left Top
Font Size:
Larger
Font Weight:
Bold
OK
Cancel
Scale
Show
Color...
Date
Show
Color...
ScopeTek DCM200
10X: 1712727
micrometer x10
Marker: (0, -178); Watermark: Move = (0, 0), Rotate = 0.000


ScopePhoto
File View Setup Capture Options Window Help
SD TC
10X
100%
Video [ScopeTek DCM200]
50um
2007-5-30 8:40:39
Scale & Date shown
ScopeTek DCM200
10X: 1712727
micrometer x10
Marker: (0, -178); Watermark: Move = (0, 0), Rotate = 0.000


ScopePhoto - [Untitled4]
File Edit View Image Process Layer Draw Plugin Options Window Help
SD TC
50%
Capture a standard proof plate
for video watermark operation
Untitled4
1600 x 1200
Zoom: 50%
Pixel
BPP: 24, Resolution: 6784615 6784615

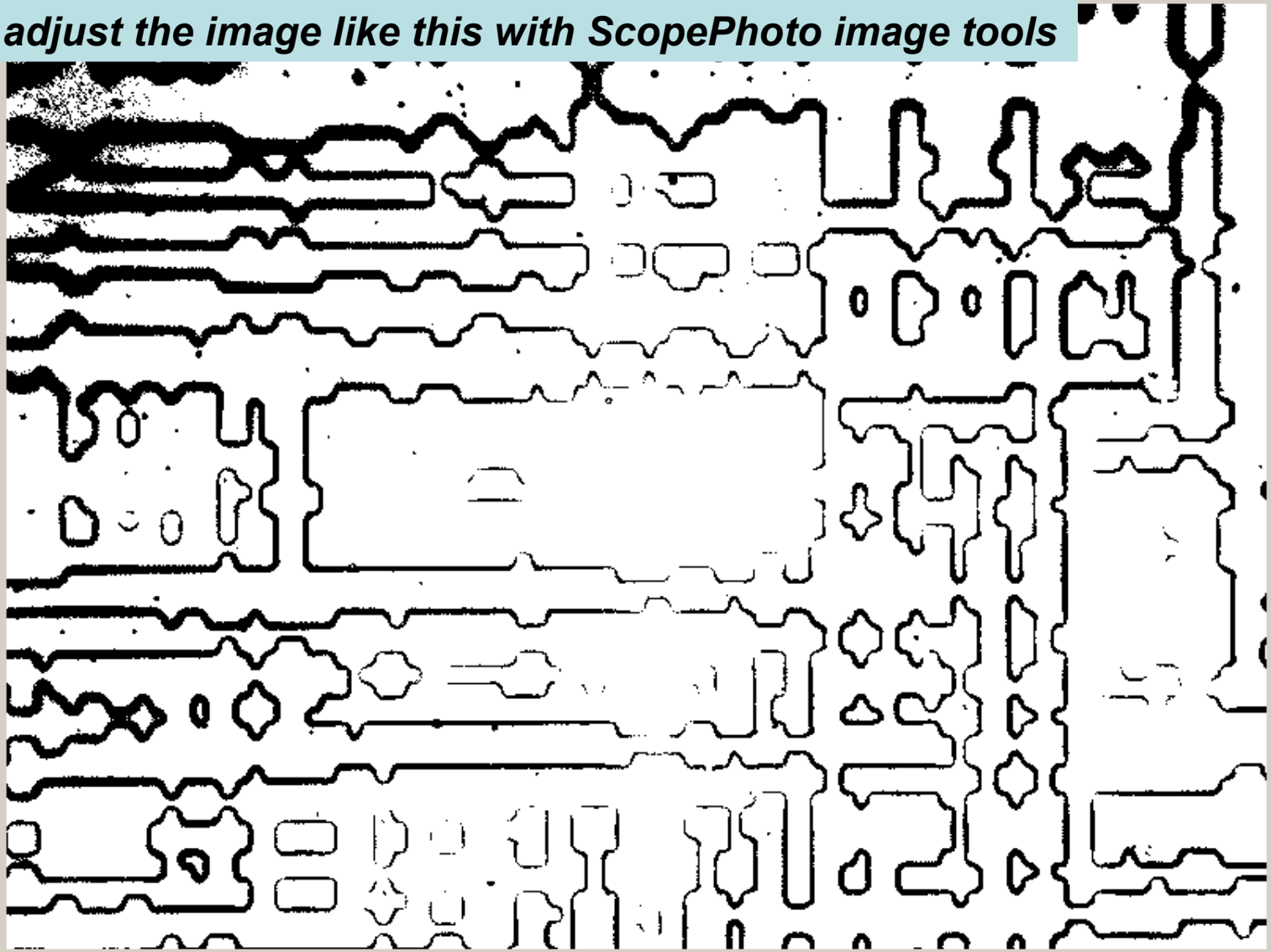
ScopePhoto - [test.bmp]

File Edit View Image Process Layer Draw Plugin Options Window Help

SD TC 50%

0 100 200 300 400 500 600 700 800 900 1000 1100 1200 1300 1400 1500 1600 1700

Try to adjust the image like this with ScopePhoto image tools



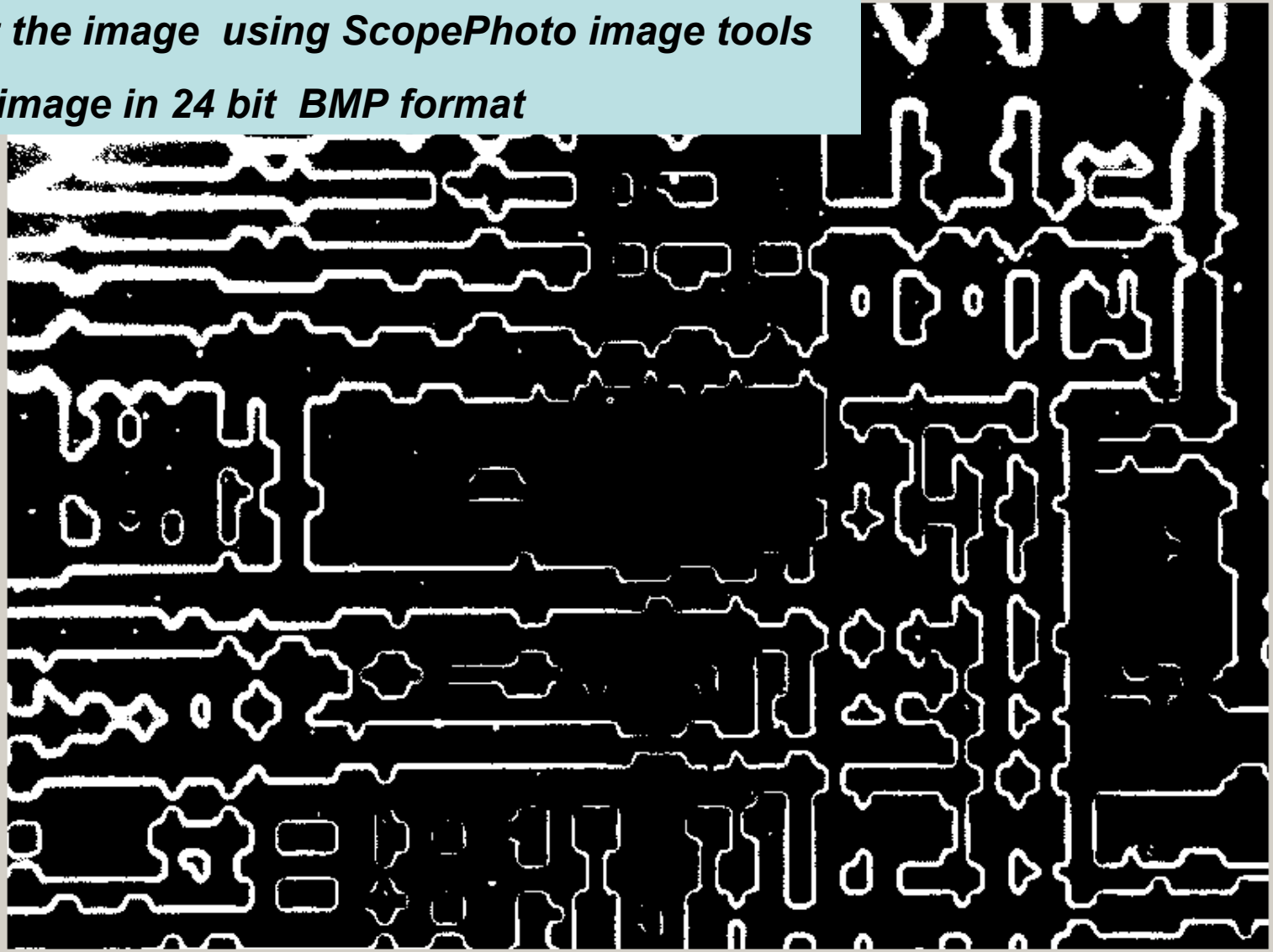
C:\Documents and Settings\Yu Feihong\桌面\tes | 1600 x 1200 | Zoom: 50% | Pixel | BPP: 24, Resolution: 6784615 6784615

ScopePhoto - [test.bmp]

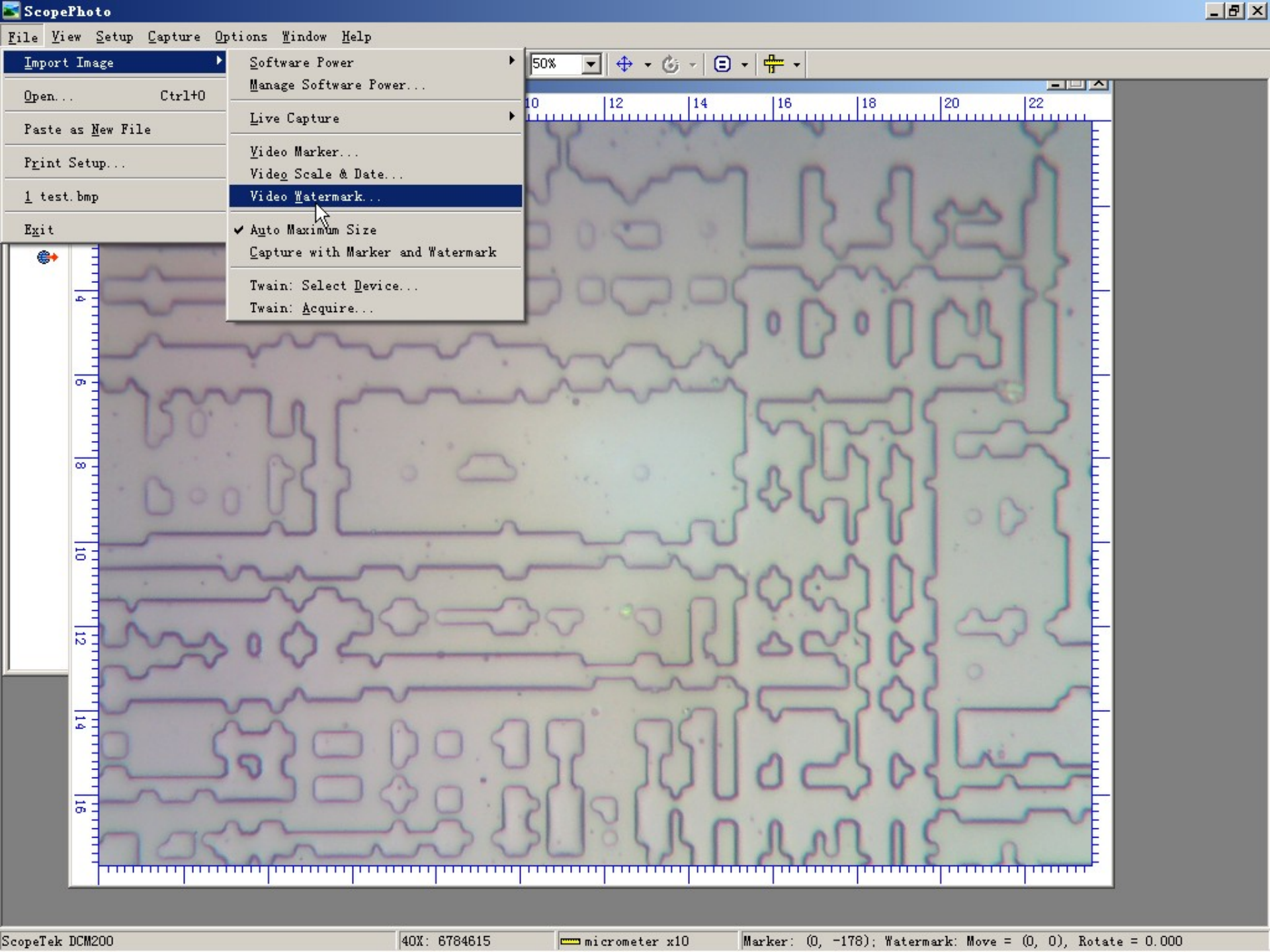
File Edit View Image Process Layer Draw Plugin Options Window Help

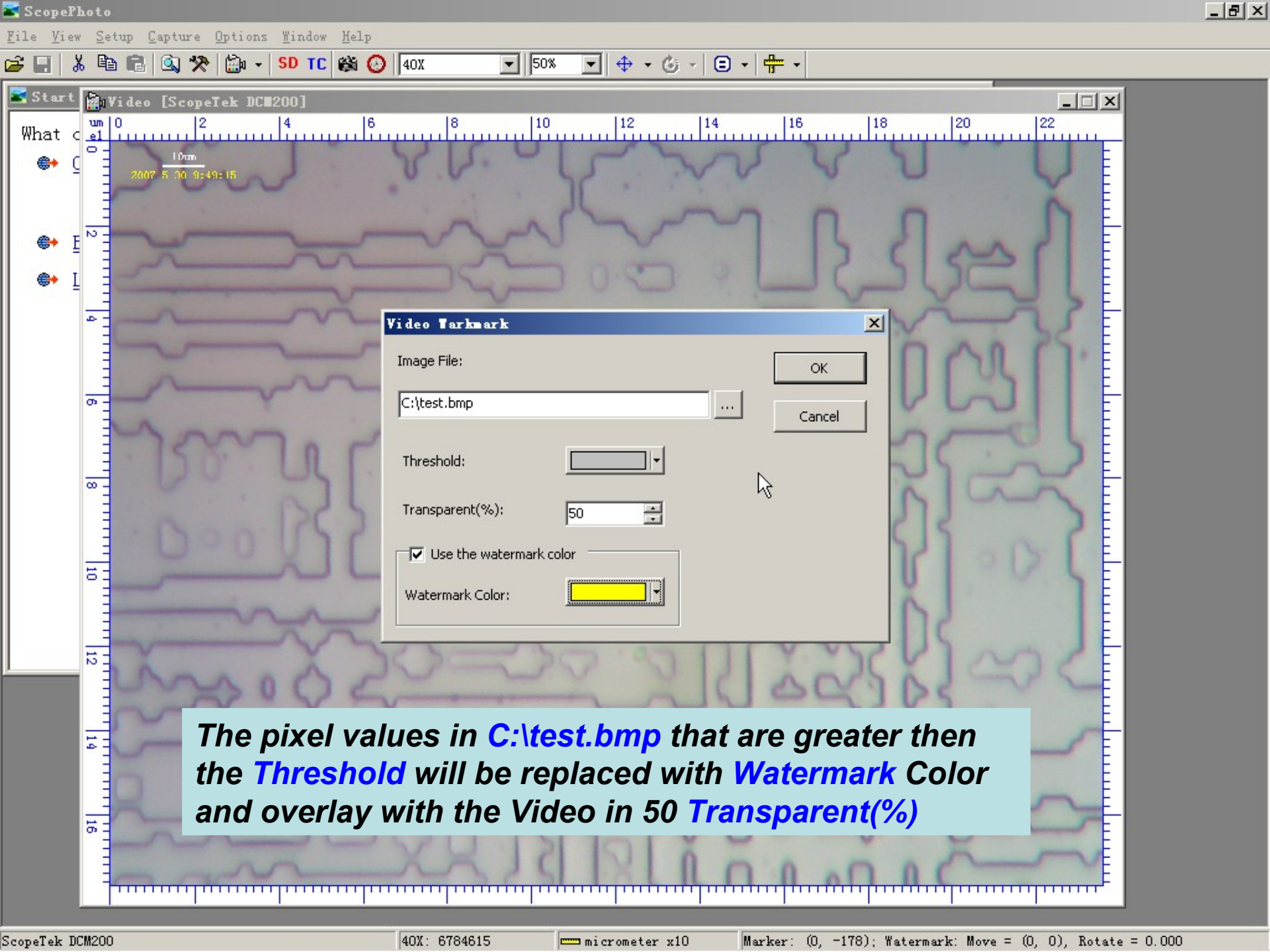
SD TC 50%

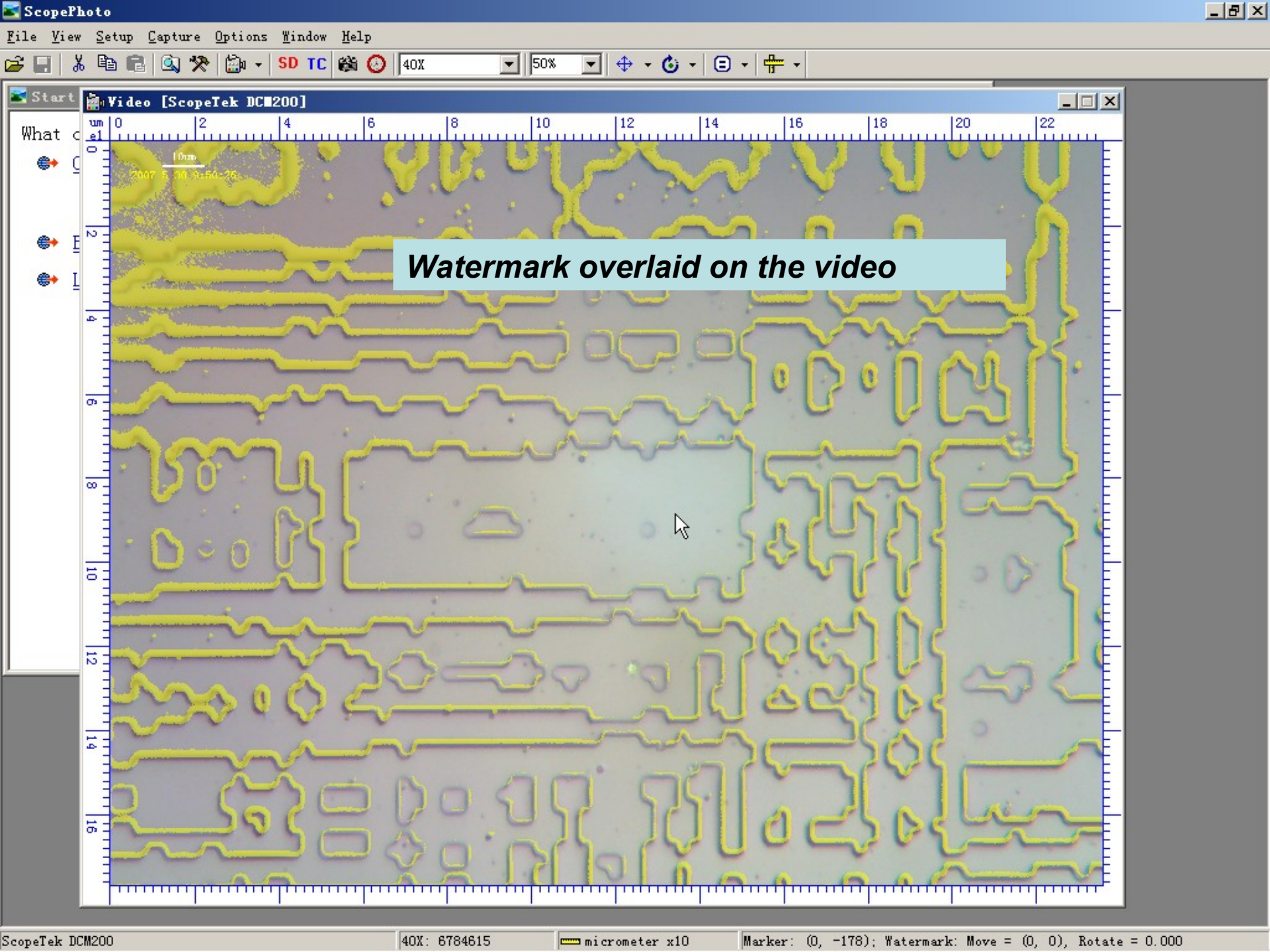
- *Invert the image using ScopePhoto image tools*
- *Save image in 24 bit BMP format*

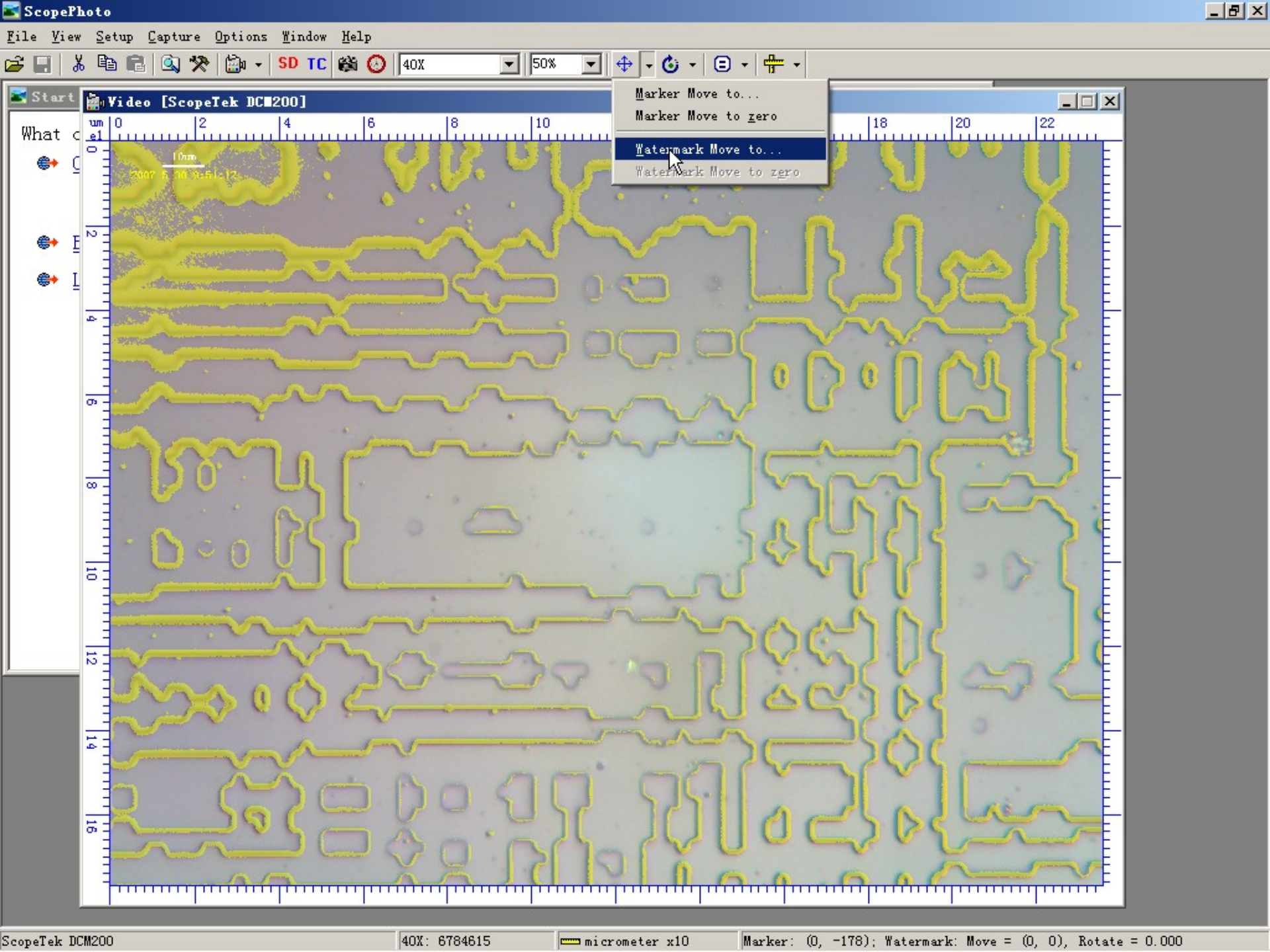


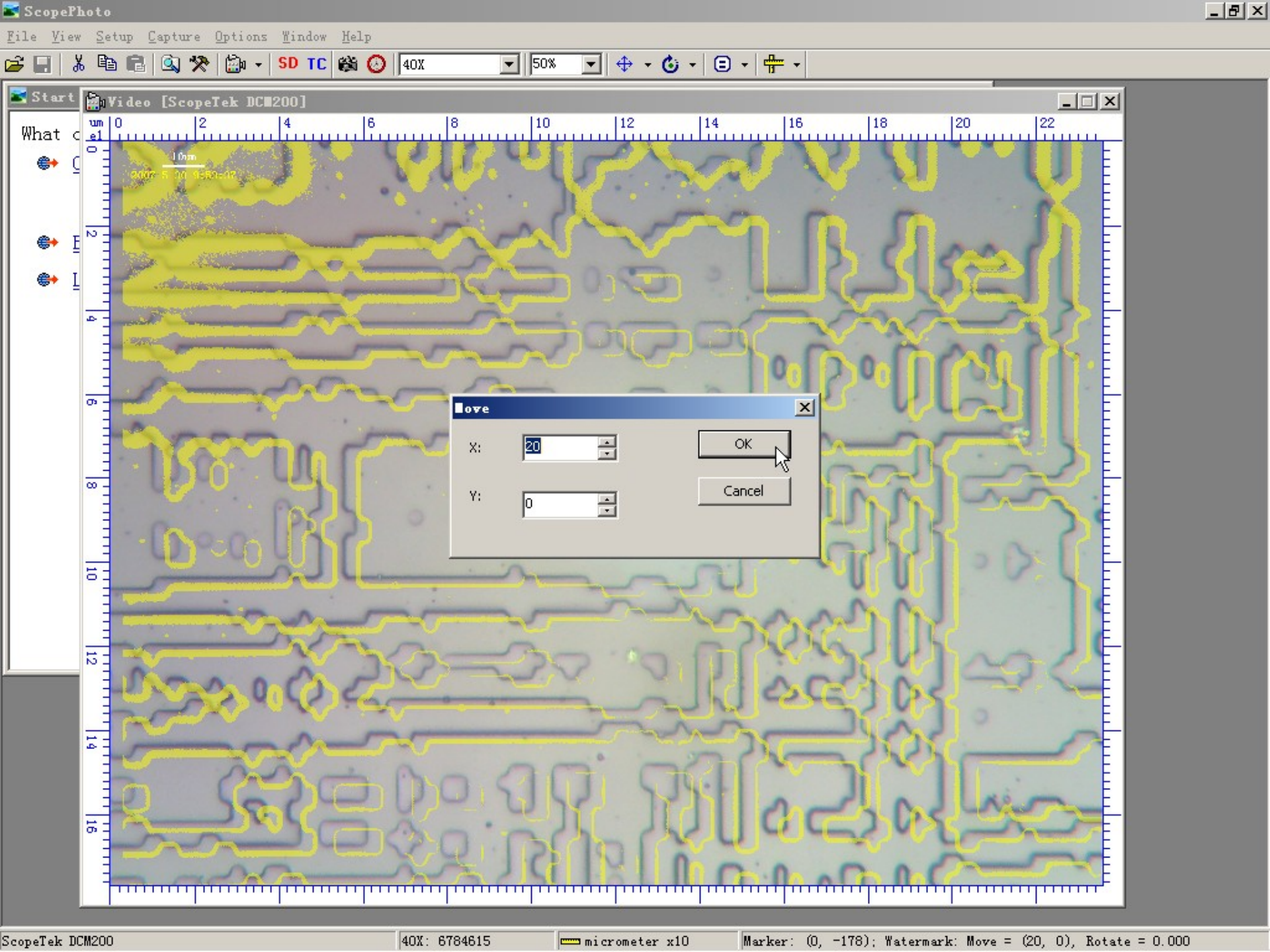
C:\Documents and Settings\Yu Feihong\桌面\tes | 1600 x 1200 | Zoom: 50% | Pixel | BPP: 24, Resolution: 6784615 6784615

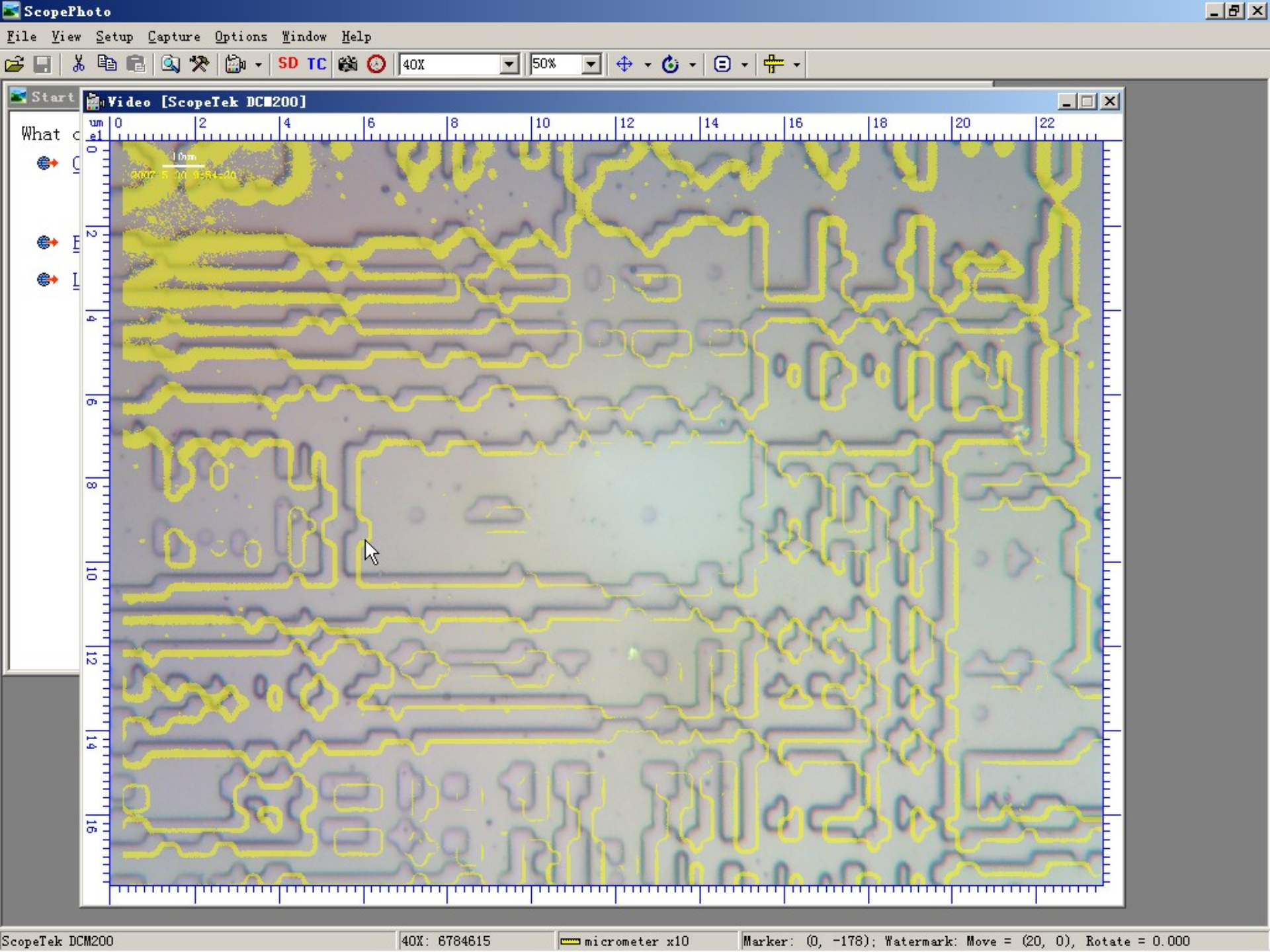

ScopePhoto
File View Setup Capture Options Window Help
Import Image
Open... Ctrl+O
Paste as New File
Print Setup...
1 test.bmp
Exit
Software Power
Manage Software Power...
Live Capture
Video Marker...
Video Scale & Date...
Video Watermark...
Auto Maximum Size
Capture with Marker and Watermark
Twain: Select Device...
Twain: Acquire...
50%
ScopeTek DCM200
40X: 6784615
micrometer x10
Marker: (0, -178); Watermark: Move = (0, 0), Rotate = 0.000

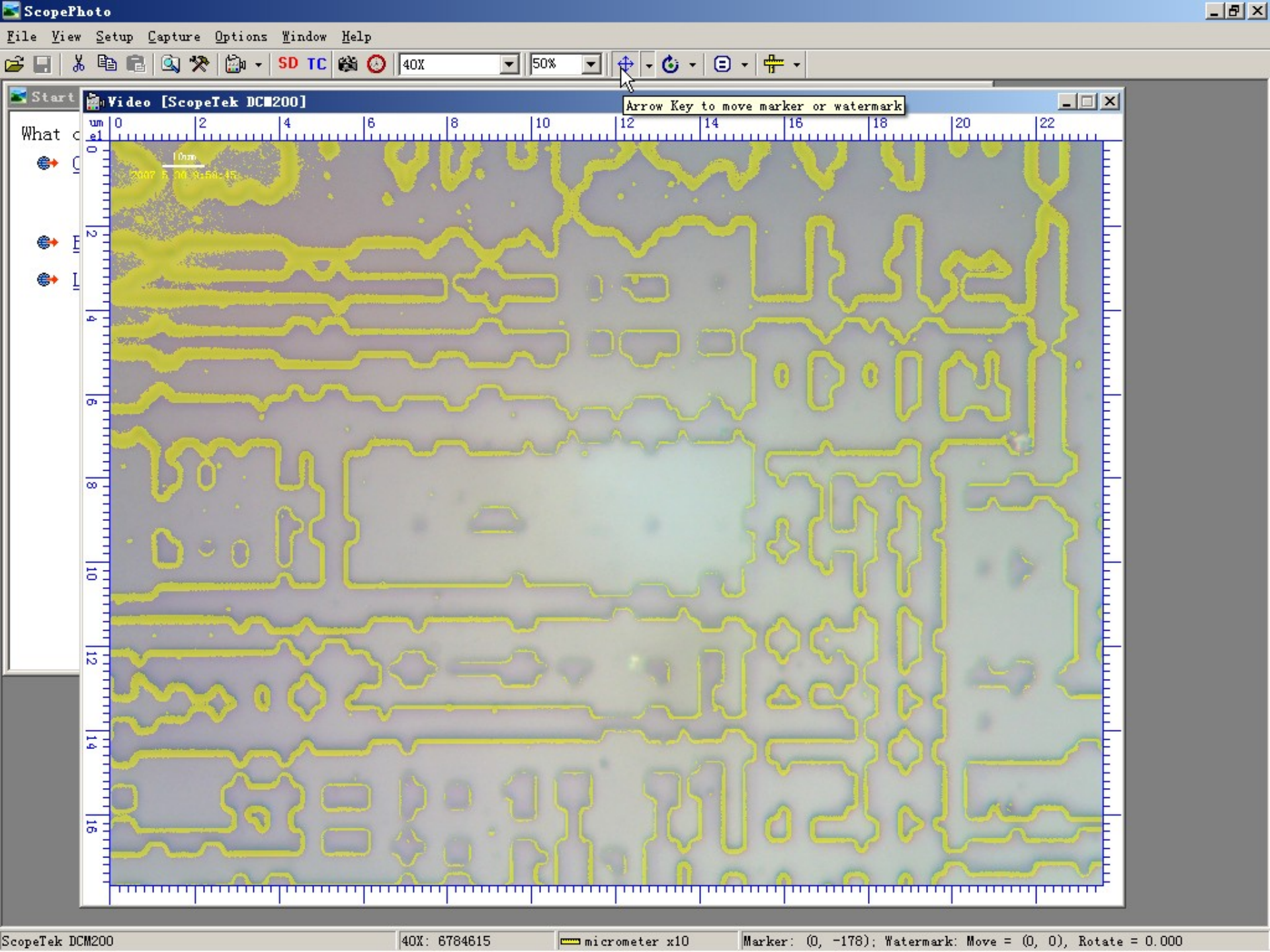

ScopePhoto
File View Setup Capture Options Window Help
40X
50%
Video [ScopeTek DCM200]
Video Watermark
Image File:
C:\test.bmp
...
OK
Cancel
Threshold:
Transparent(%):
50
Use the watermark color
Watermark Color:
The pixel values in C:\test.bmp that are greater then the Threshold will be replaced with Watermark Color and overlay with the Video in 50 Transparent(%)
ScopeTek DCM200
40X: 6784615
micrometer x10
Marker: (0, -178); Watermark: Move = (0, 0), Rotate = 0.000

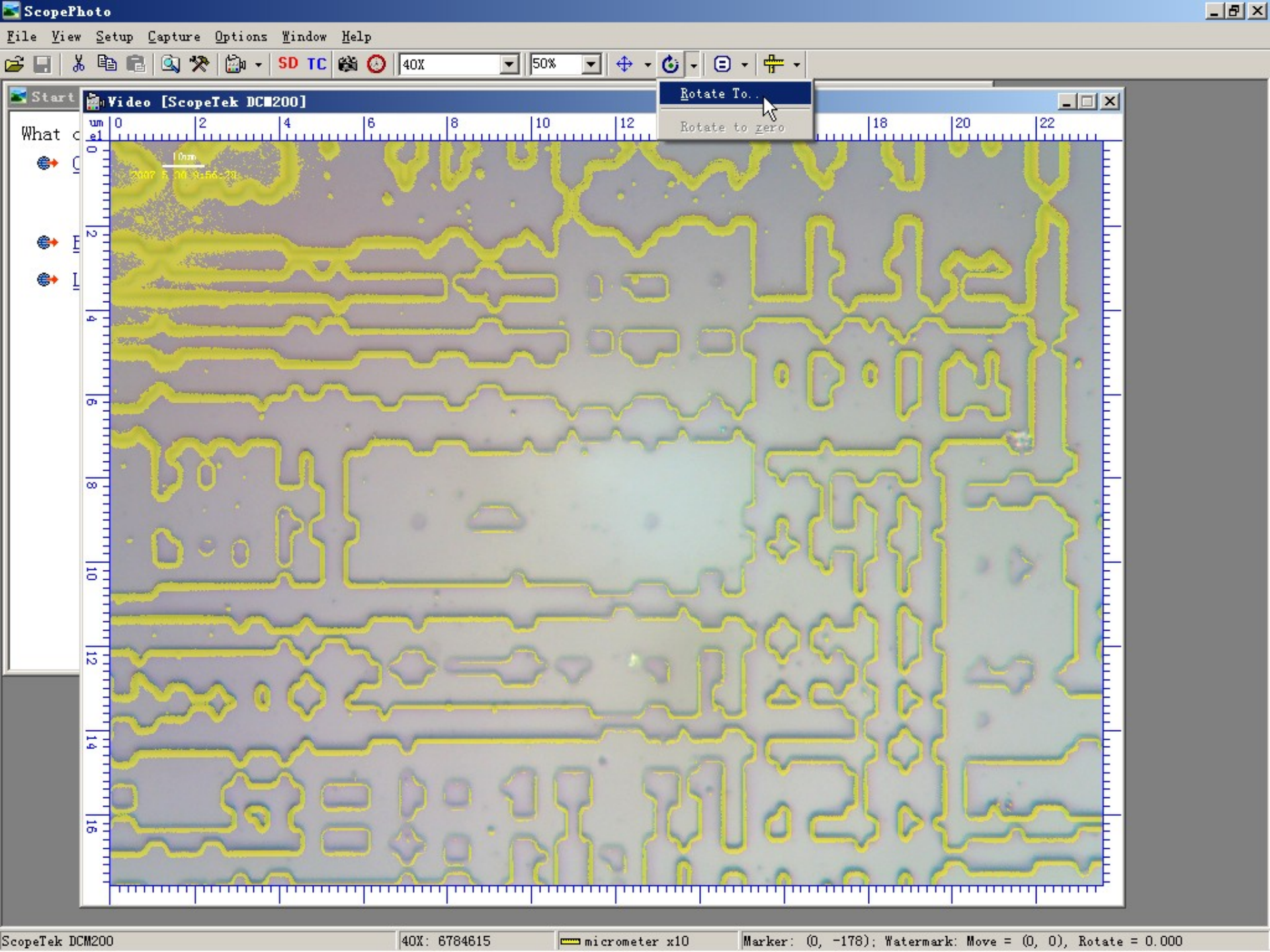

ScopePhoto
File View Setup Capture Options Window Help
SD TC
40X
50%
Start
Video [ScopeTek DCM200]
Watermark overlaid on the video
ScopeTek DCM200
40X: 6784615
micrometer x10
Marker: (0, -178); Watermark: Move = (0, 0), Rotate = 0.000

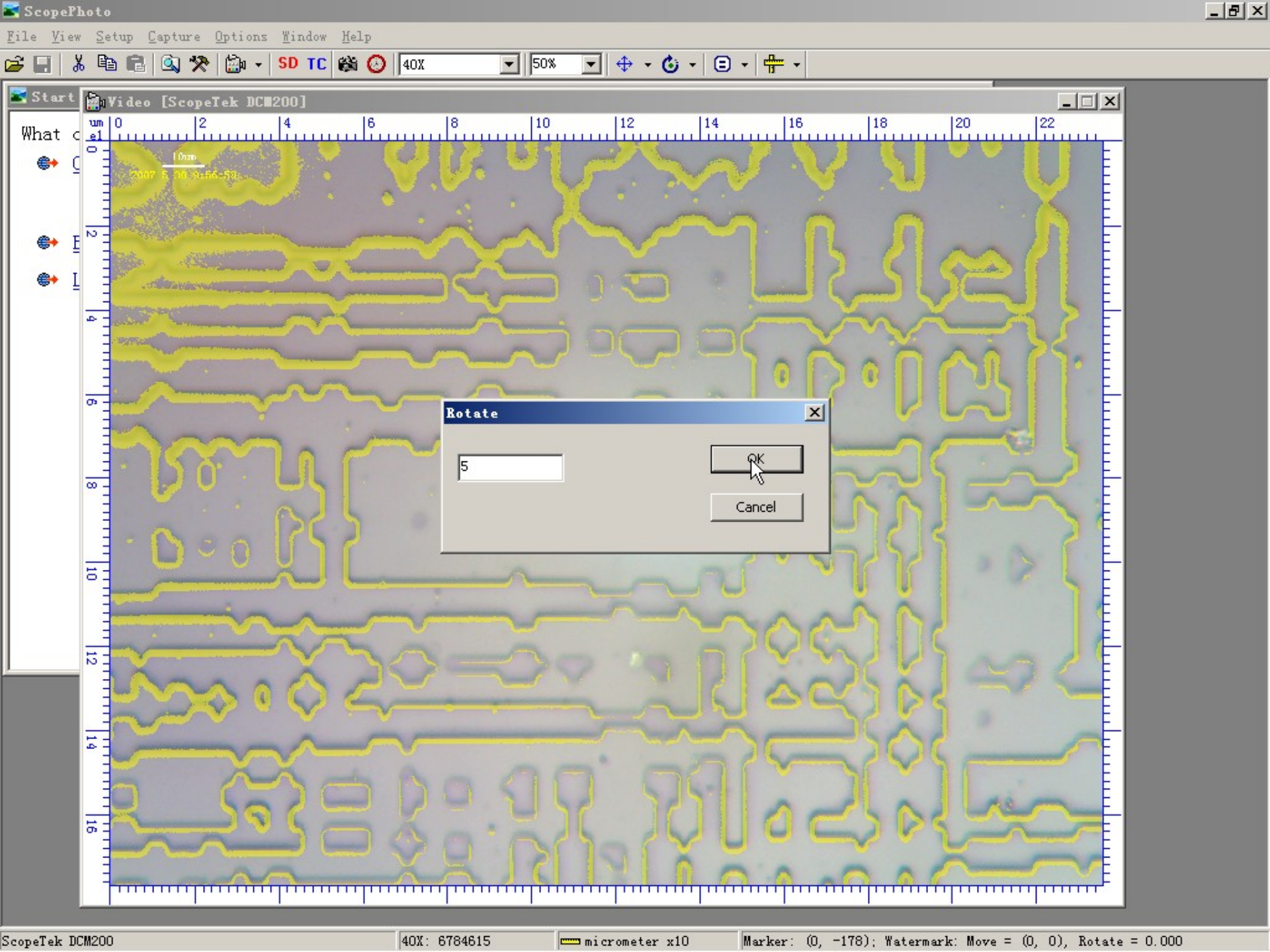

ScopePhoto
File View Setup Capture Options Window Help
SD TC
40X
50%
Marker Move to...
Marker Move to zero
Watermark Move to...
Watermark Move to zero
Video [ScopeTek DCM200]
ScopeTek DCM200
40X: 6784615
micrometer x10
Marker: (0, -178); Watermark: Move = (0, 0), Rotate = 0.000

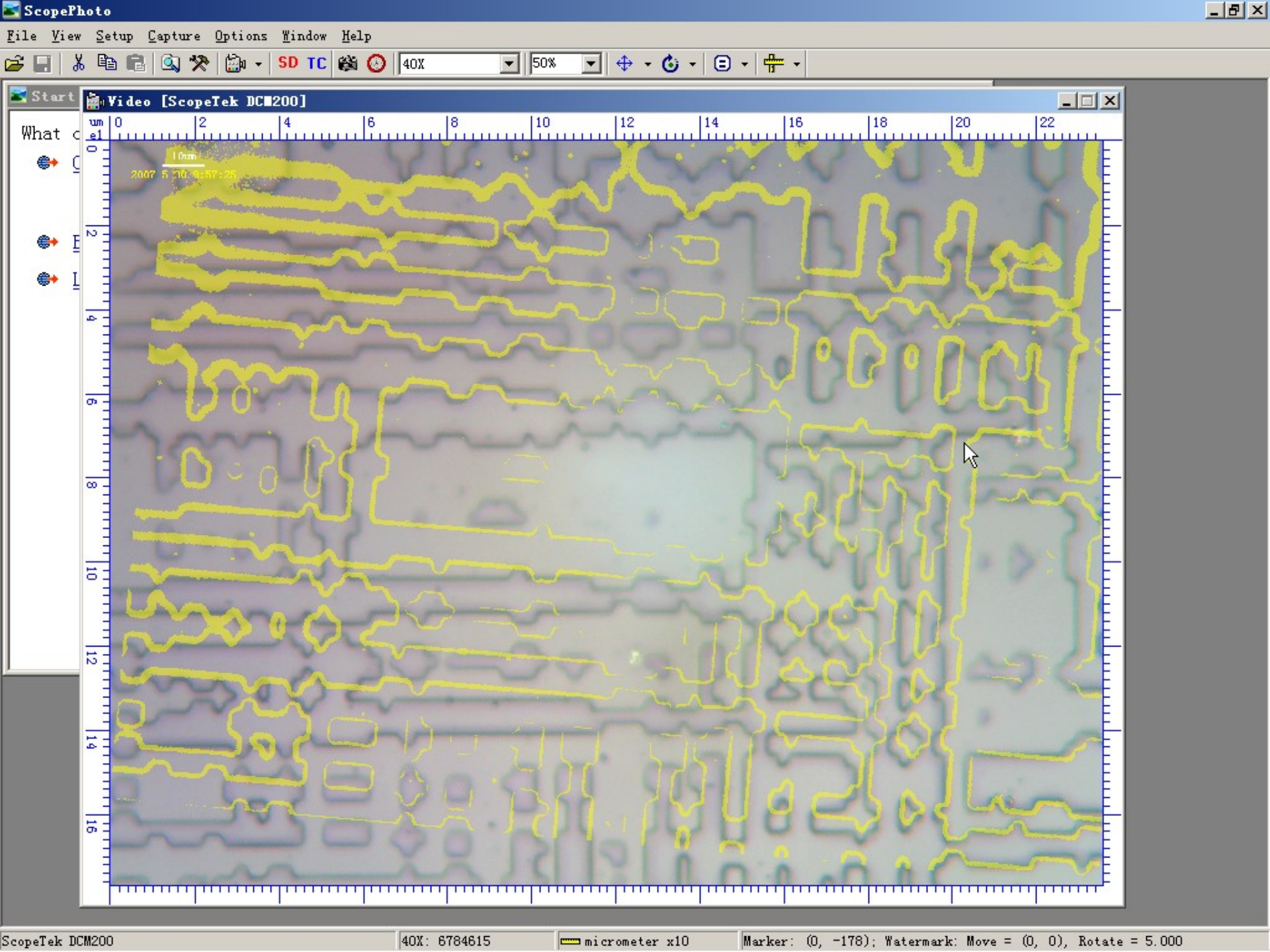

ScopePhoto
File View Setup Capture Options Window Help
SD TC
40X
50%
Start
What
Video [ScopeTek DCM200]
Move
X:
20
Y:
0
OK
Cancel
ScopeTek DCM200
40X: 6784615
micrometer x10
Marker: (0, -178); Watermark: Move = (20, 0), Rotate = 0.000

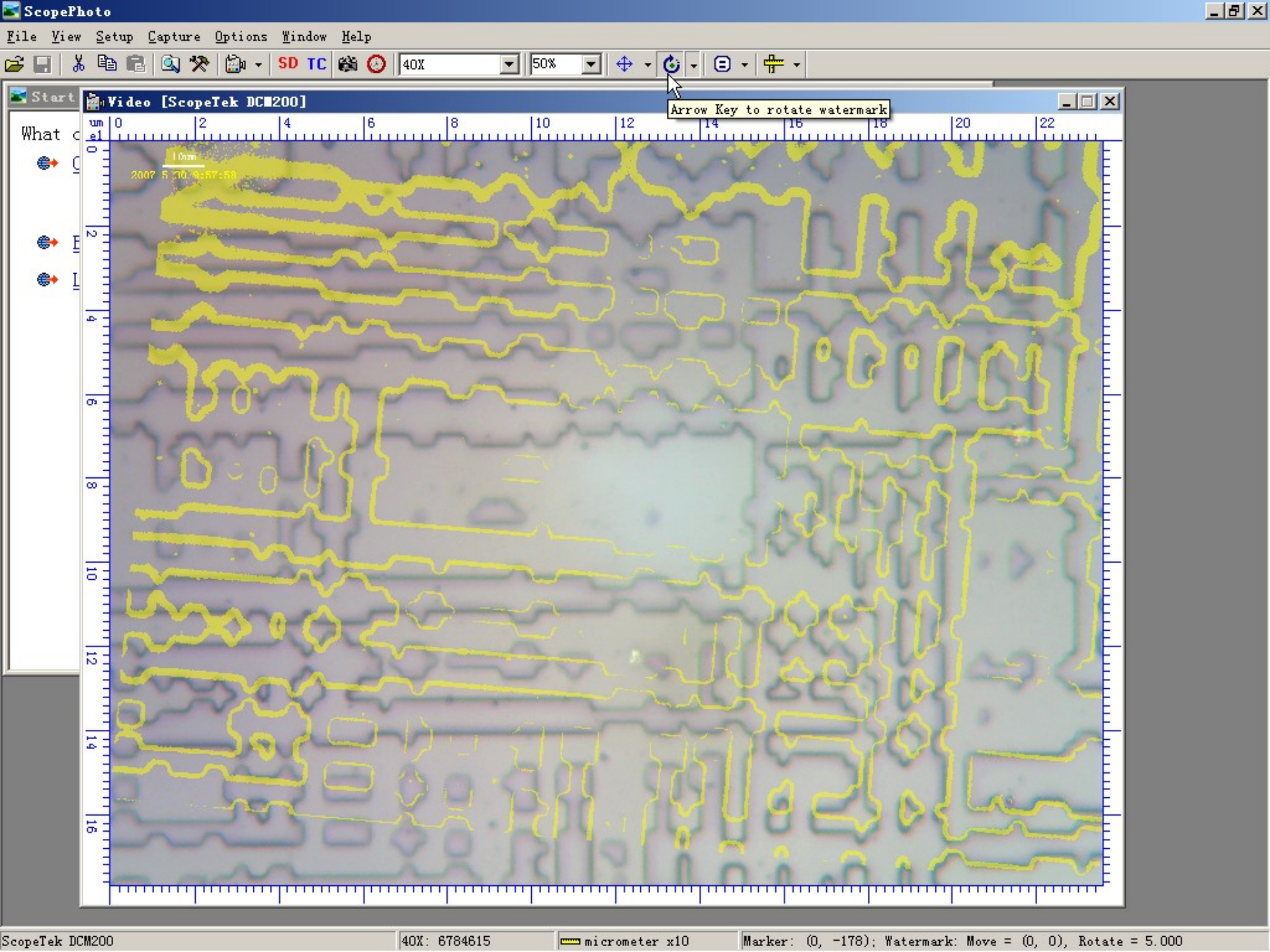

ScopePhoto
File View Setup Capture Options Window Help
SD TC
40X
50%
Start
What
Video [ScopeTek DCM200]
0 2 4 6 8 10 12 14 16 18 20 22
0 2 4 6 8 10 12 14 16
ScopeTek DCM200
40X: 6784615
micrometer x10
Marker: (0, -178); Watermark: Move = (20, 0), Rotate = 0.000


ScopePhoto
File View Setup Capture Options Window Help
SD TC
40X
50%
Video [ScopeTek DCM200]
Arrow Key to move marker or watermark
ScopeTek DCM200
40X: 6784615
micrometer x10
Marker: (0, -178); Watermark: Move = (0, 0), Rotate = 0.000


ScopePhoto
File View Setup Capture Options Window Help
SD TC
40X
50%
Rotate To..
Rotate to zero
Video [ScopeTek DCM200]
ScopeTek DCM200
40X: 6784615
micrometer x10
Marker: (0, -178); Watermark: Move = (0, 0), Rotate = 0.000

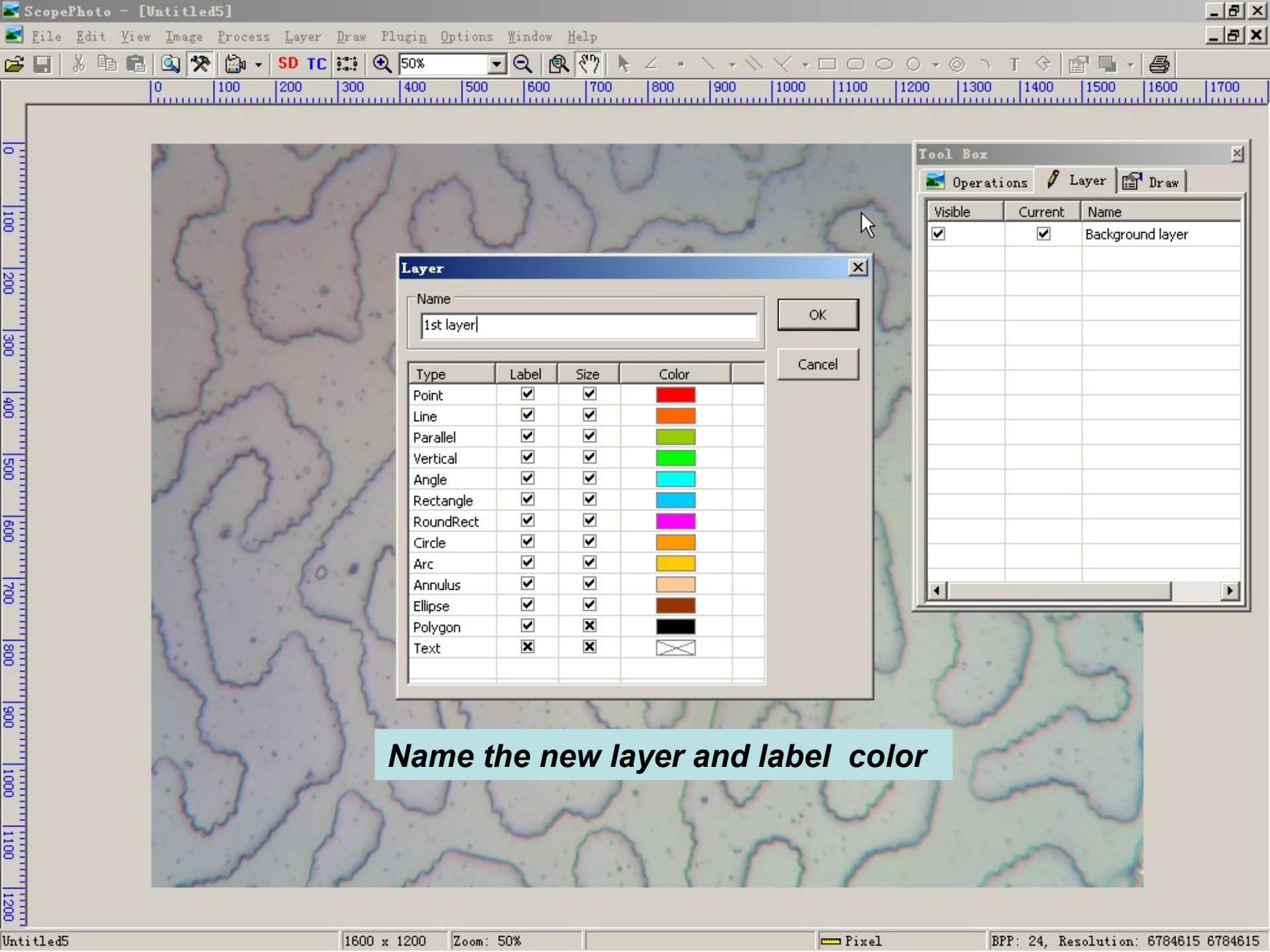

ScopePhoto
File View Setup Capture Options Window Help
SD TC
40X
50%
Start
What
Video [ScopeTek DCM200]
Rotate
5
OK
Cancel
ScopeTek DCM200
40X: 6784615
micrometer x10
Marker: (0, -178); Watermark: Move = (0, 0), Rotate = 0.000

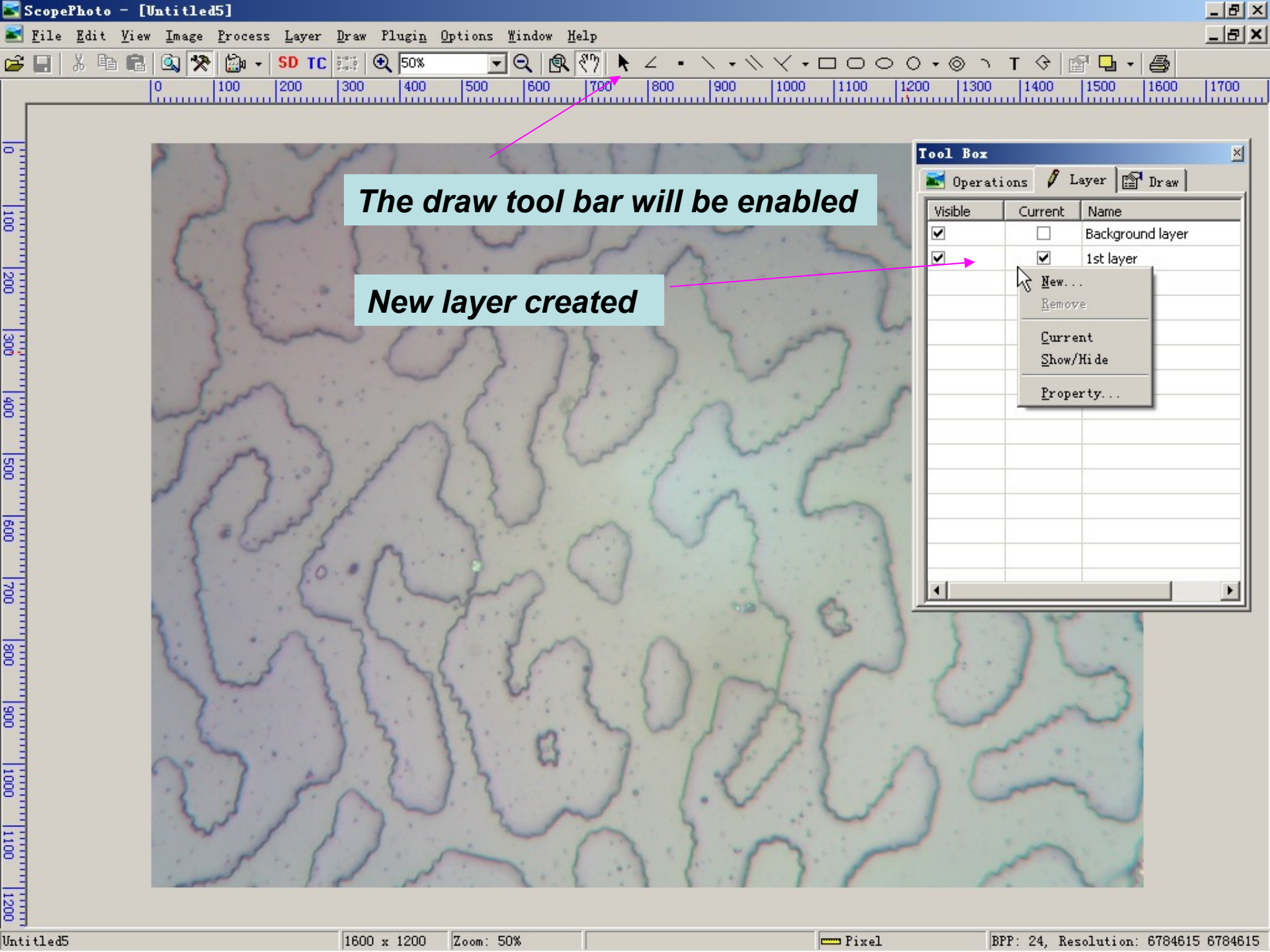

ScopePhoto
File View Setup Capture Options Window Help
SD TC
40X
50%
Start
What
Video [ScopeTek DCM200]
0 2 4 6 8 10 12 14 16 18 20 22
0 2 4 6 8 10 12 14 16
10um
2007 5 30 9:57:25
ScopeTek DCM200
40X: 6784615
micrometer x10
Marker: (0, -178); Watermark: Move = (0, 0), Rotate = 5.000

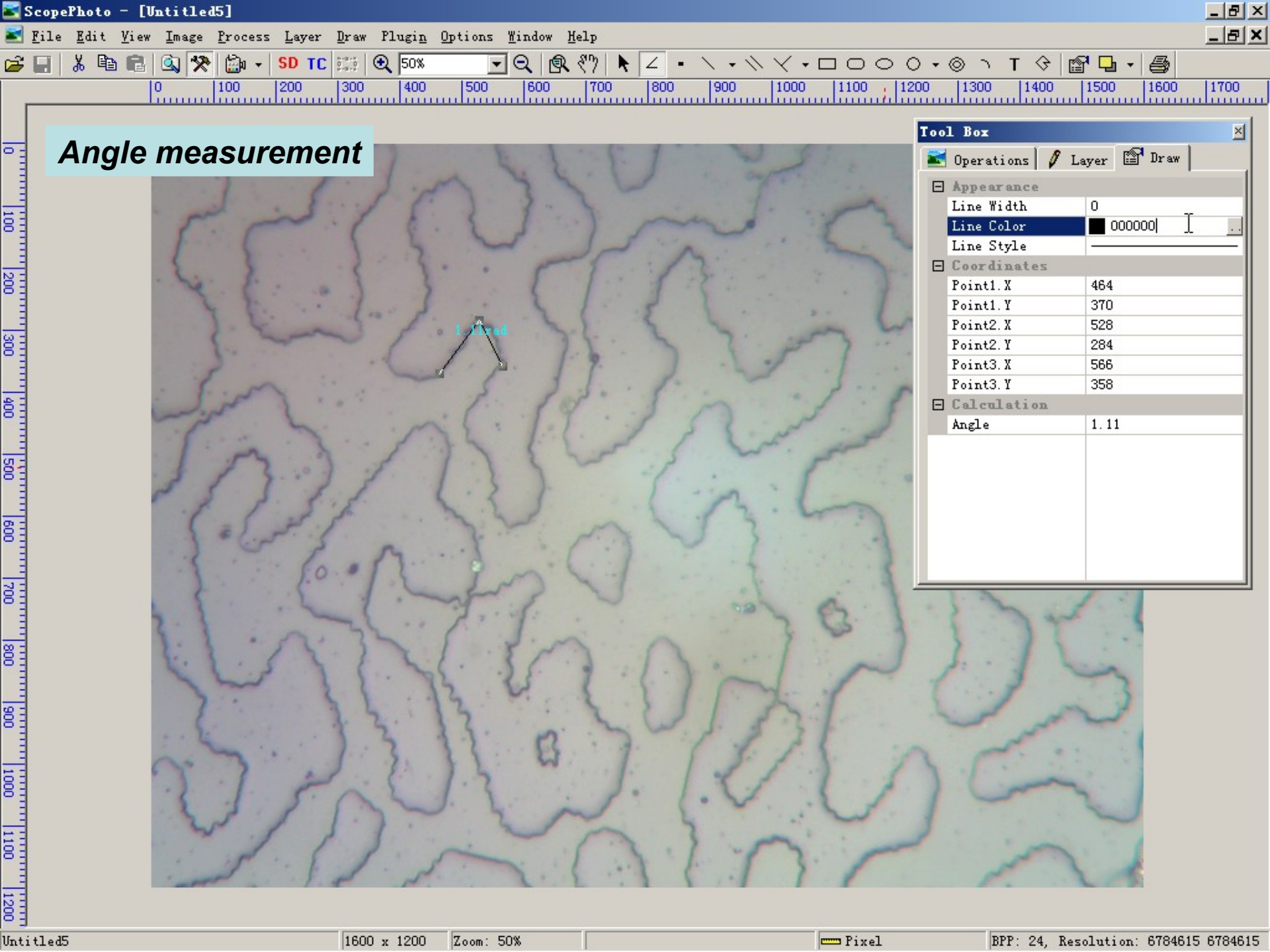

ScopePhoto
File View Setup Capture Options Window Help
SD TC
40X
50%
Arrow Key to rotate watermark
Video [ScopeTek DCM200]
ScopeTek DCM200
40X: 6784615
micrometer x10
Marker: (0, -178); Watermark: Move = (0, 0), Rotate = 5.000

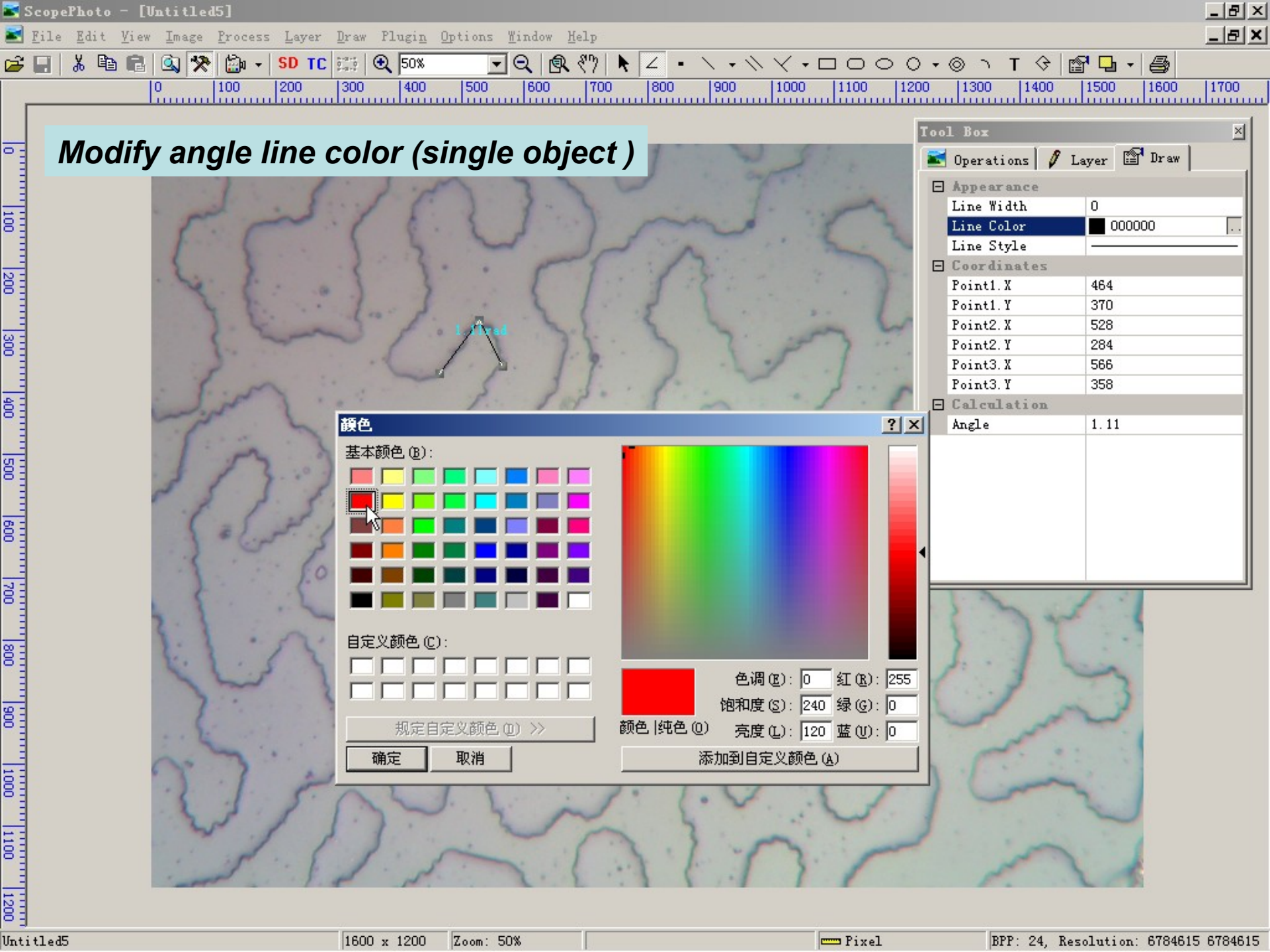
Layer and Draw

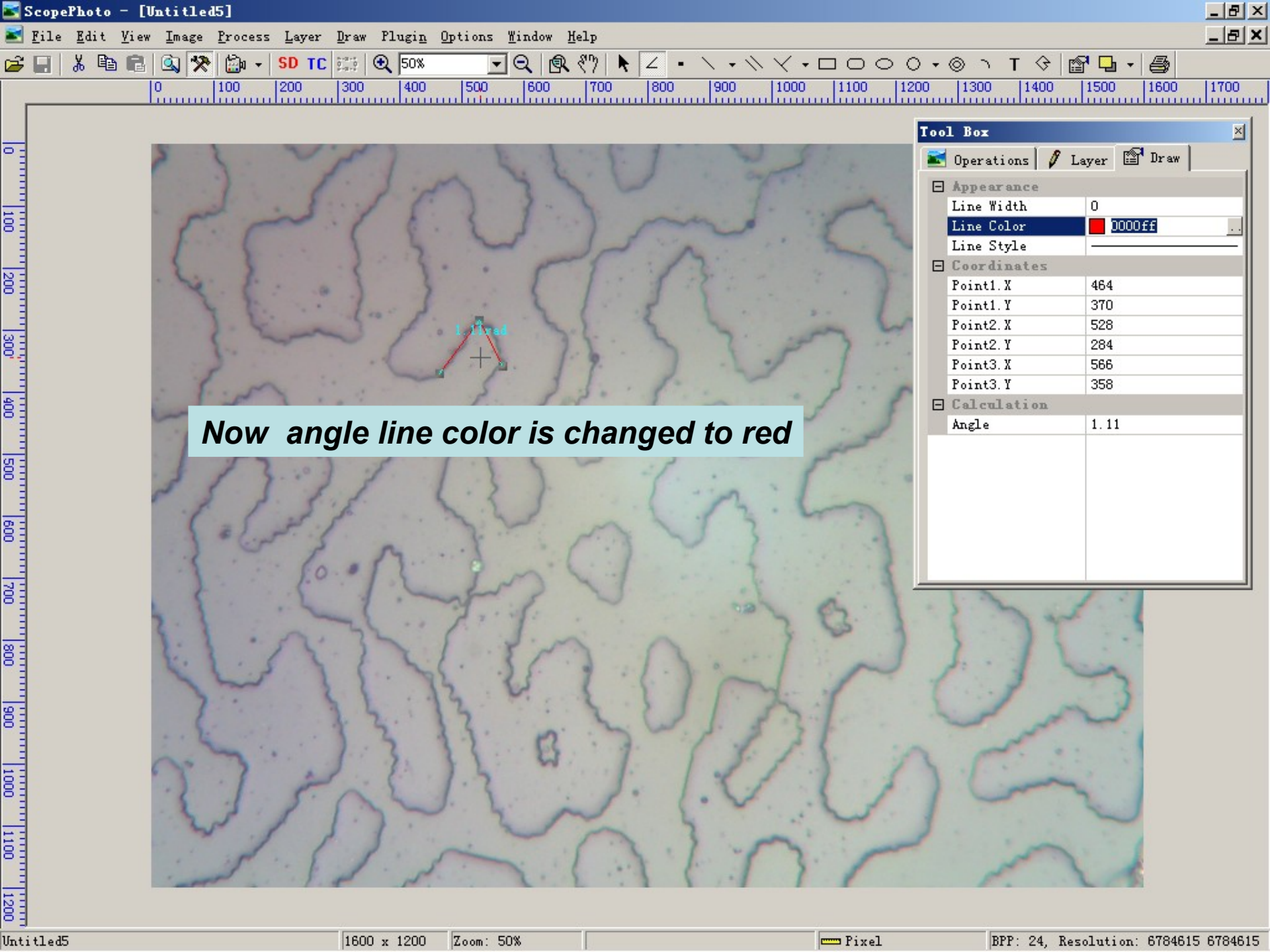

ScopePhoto - [Untitled5]
File Edit View Image Process Layer Draw Plugin Options Window Help
New...
Remove...
Current...
Show/Hide...
Property...
Insert a new layer
Untitled5
1600 x 1200
Zoom: 50%
Pixel
BPP: 24, Resolution: 6784615 6784615

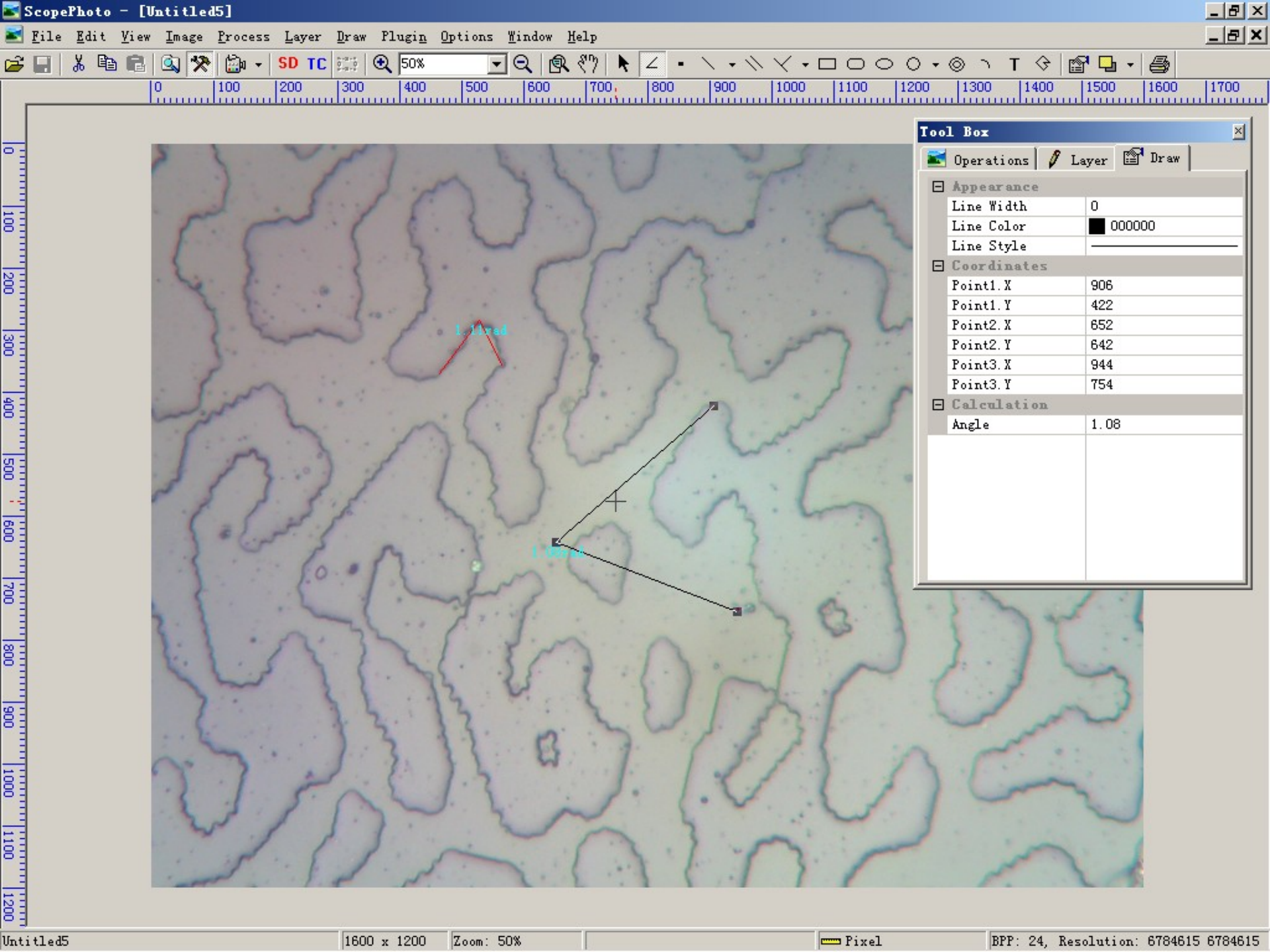

ScopePhoto - [Untitled5]
File Edit View Image Process Layer Draw Plugin Options Window Help
SD TC
50%
Tool Box
Operations
Layer
Draw
Visible
Current
Name
Background layer
Layer
Name
1st layer
OK
Cancel
Type
Label
Size
Color
Point
Line
Parallel
Vertical
Angle
Rectangle
RoundRect
Circle
Arc
Annulus
Ellipse
Polygon
Text
Name the new layer and label color
Untitled5
1600 x 1200
Zoom: 50%
Pixel
BPP: 24, Resolution: 6784615 6784615

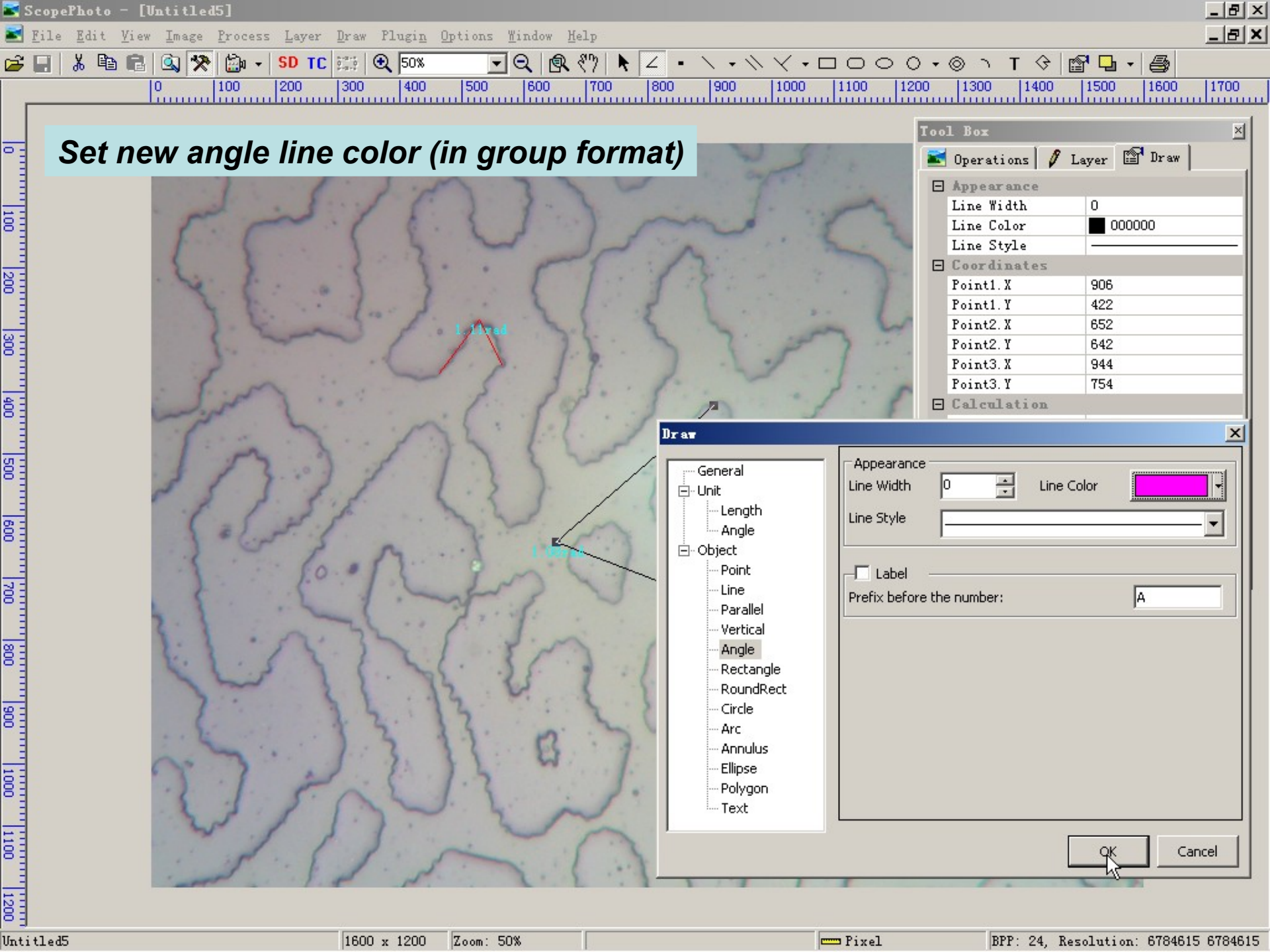

ScopePhoto - [Untitled5]
File Edit View Image Process Layer Draw Plugin Options Window Help
SD TC
50%
The draw tool bar will be enabled
New layer created
Tool Box
Operations
Layer
Draw
Visible
Current
Name
Background layer
1st layer
New...
Remove
Current
Show/Hide
Property...
Untitled5
1600 x 1200
Zoom: 50%
Pixel
BPP: 24, Resolution: 6784615 6784615

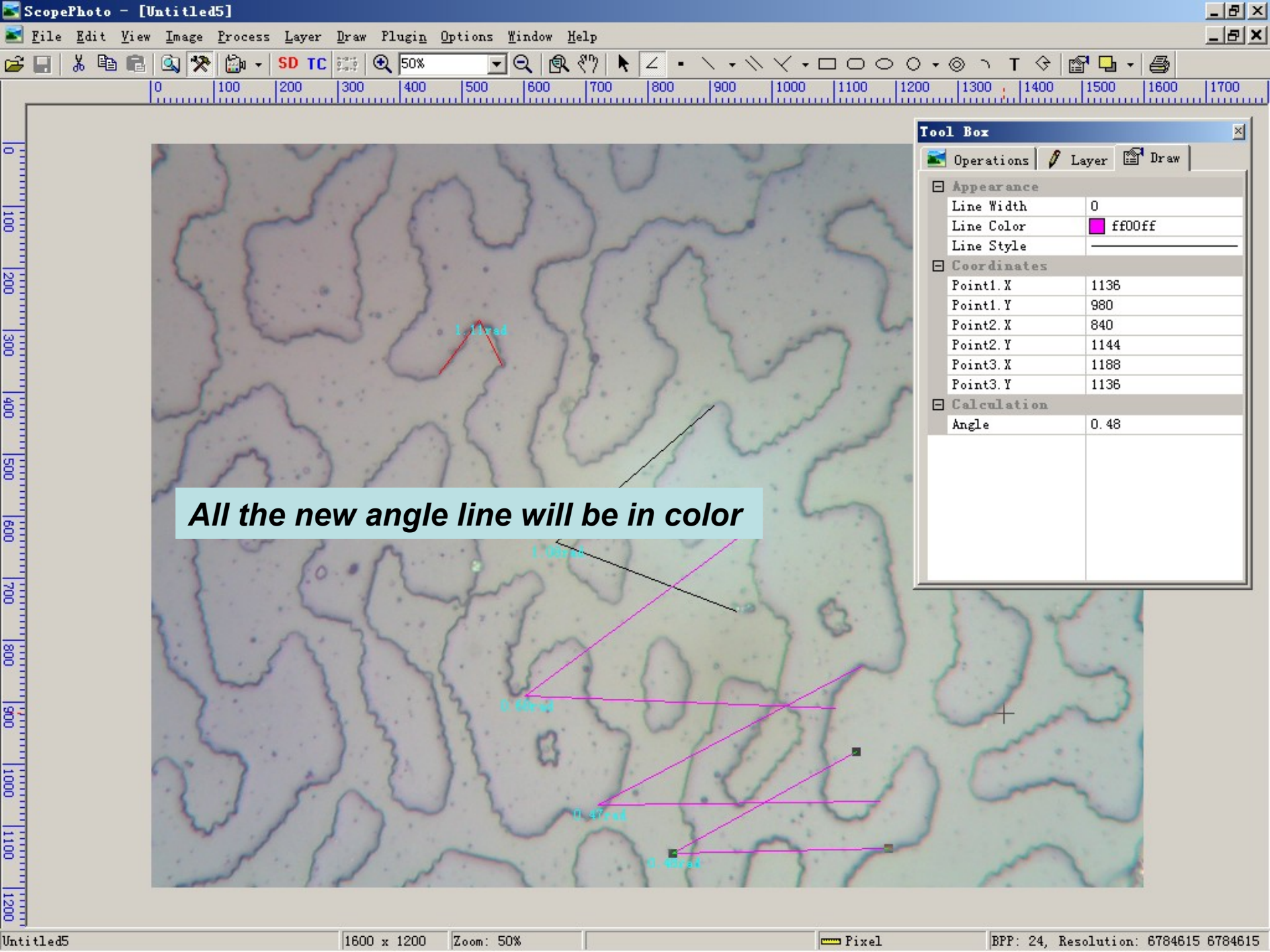

ScopePhoto - [Untitled5]
File Edit View Image Process Layer Draw Plugin Options Window Help
SD TC
50%
Angle measurement
1.11rad
Tool Box
Operations
Layer
Draw
Appearance
Line Width 0
Line Color 000000
Line Style
Coordinates
Point1.X 464
Point1.Y 370
Point2.X 528
Point2.Y 284
Point3.X 566
Point3.Y 358
Calculation
Angle 1.11
Untitled5
1600 x 1200
Zoom: 50%
Pixel
BPP: 24, Resolution: 6784615 6784615

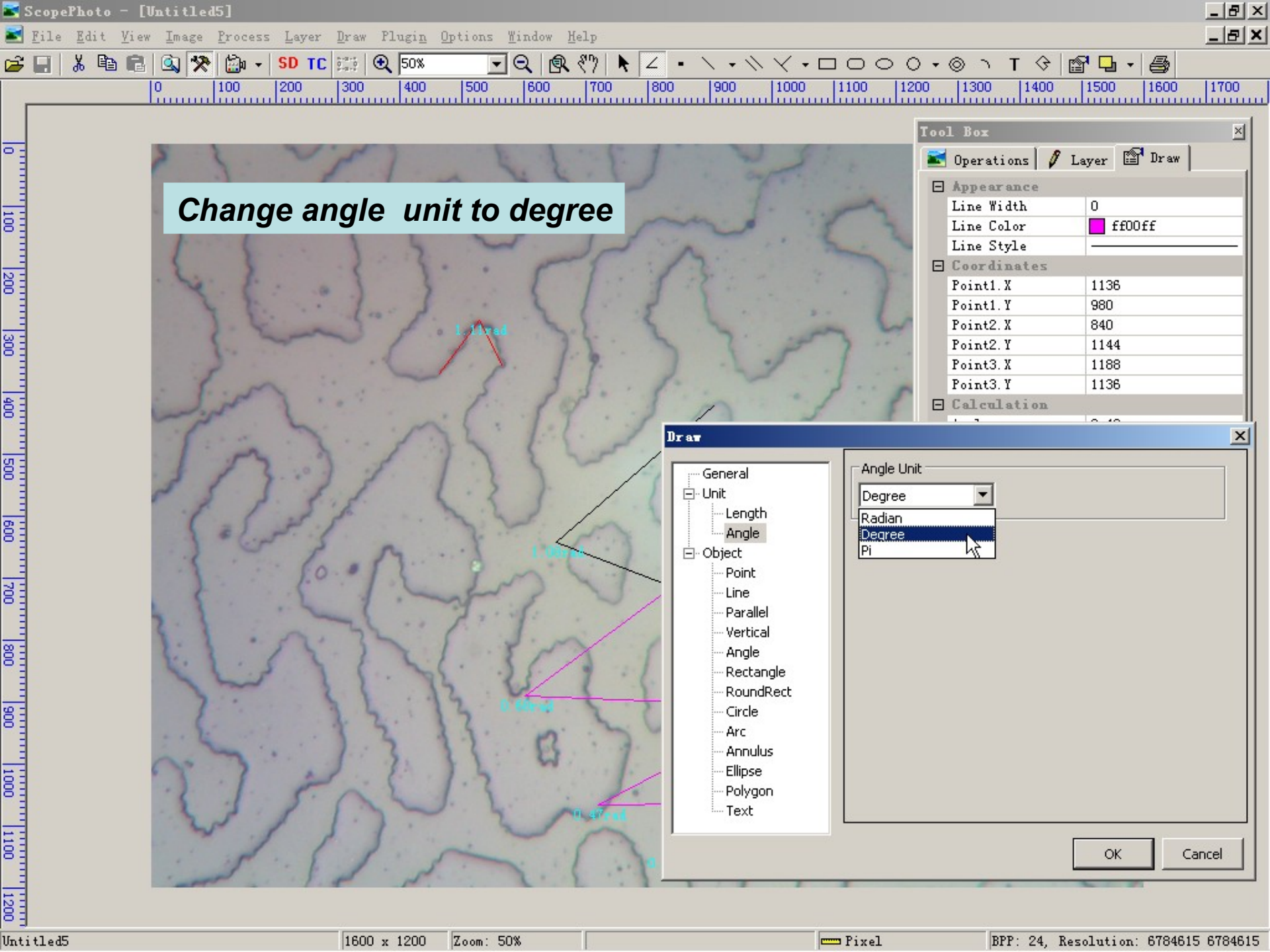

ScopePhoto - [Untitled5]
File Edit View Image Process Layer Draw Plugin Options Window Help
Modify angle line color (single object)
Tool Box
Operations
Layer
Draw
Appearance
Line Width 0
Line Color 000000
Line Style
Coordinates
Point1.X 464
Point1.Y 370
Point2.X 528
Point2.Y 284
Point3.X 566
Point3.Y 358
Calculation
Angle 1.11
颜色
基本颜色(B):
自定义颜色(C):
规定自定义颜色(D) >>
确定
取消
色调(E): 0
饱和度(S): 240
亮度(L): 120
红(R): 255
绿(G): 0
蓝(U): 0
颜色|纯色(O)
添加到自定义颜色(A)
Untitled5
1600 x 1200
Zoom: 50%
Pixel
BPP: 24, Resolution: 6784615 6784615

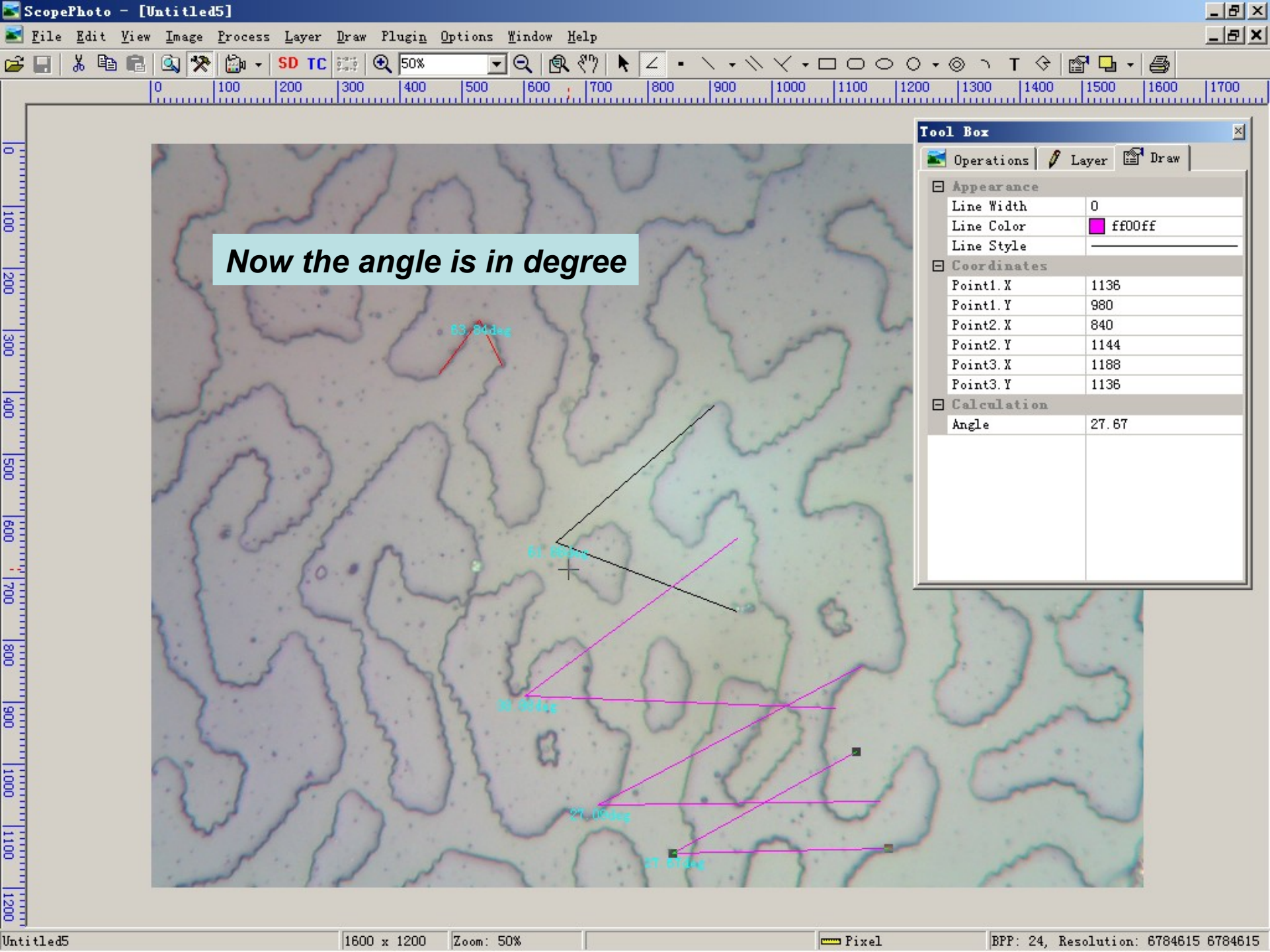

ScopePhoto - [Untitled5]
File Edit View Image Process Layer Draw Plugin Options Window Help
SD TC
50%
Tool Box
Operations
Layer
Draw
Appearance
Line Width 0
Line Color 0000ff
Line Style
Coordinates
Point1.X 464
Point1.Y 370
Point2.X 528
Point2.Y 284
Point3.X 566
Point3.Y 358
Calculation
Angle 1.11
Now angle line color is changed to red
Untitled5
1600 x 1200
Zoom: 50%
Pixel
BPP: 24, Resolution: 6784615 6784615

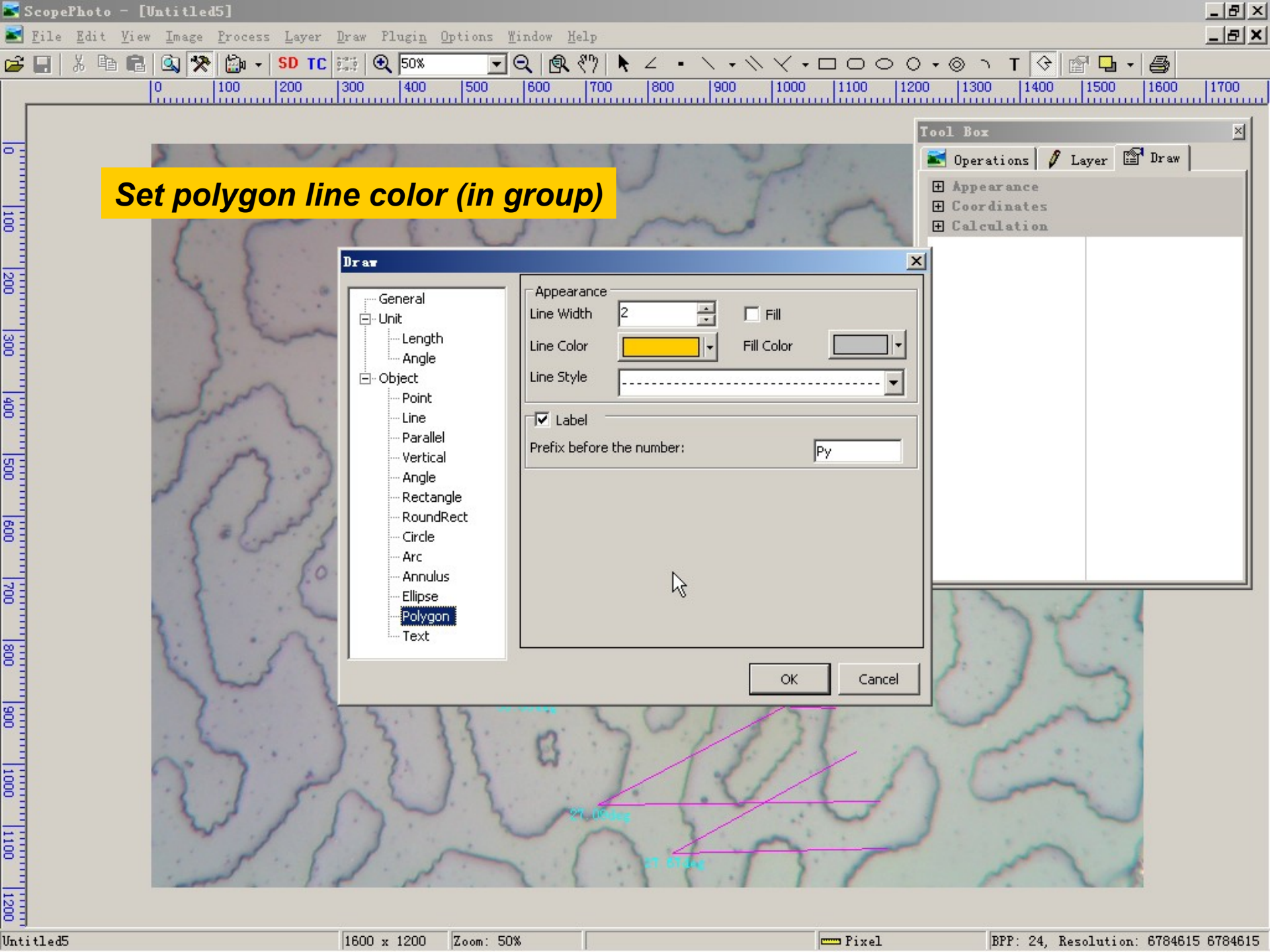

ScopePhoto - [Untitled5]
File Edit View Image Process Layer Draw Plugin Options Window Help
SD TC
50%
Tool Box
Operations
Layer
Draw
Appearance
Line Width 0
Line Color 000000
Line Style
Coordinates
Point1.X 906
Point1.Y 422
Point2.X 652
Point2.Y 642
Point3.X 944
Point3.Y 754
Calculation
Angle 1.08
Untitled5
1600 x 1200
Zoom: 50%
Pixel
BPP: 24, Resolution: 6784615 6784615

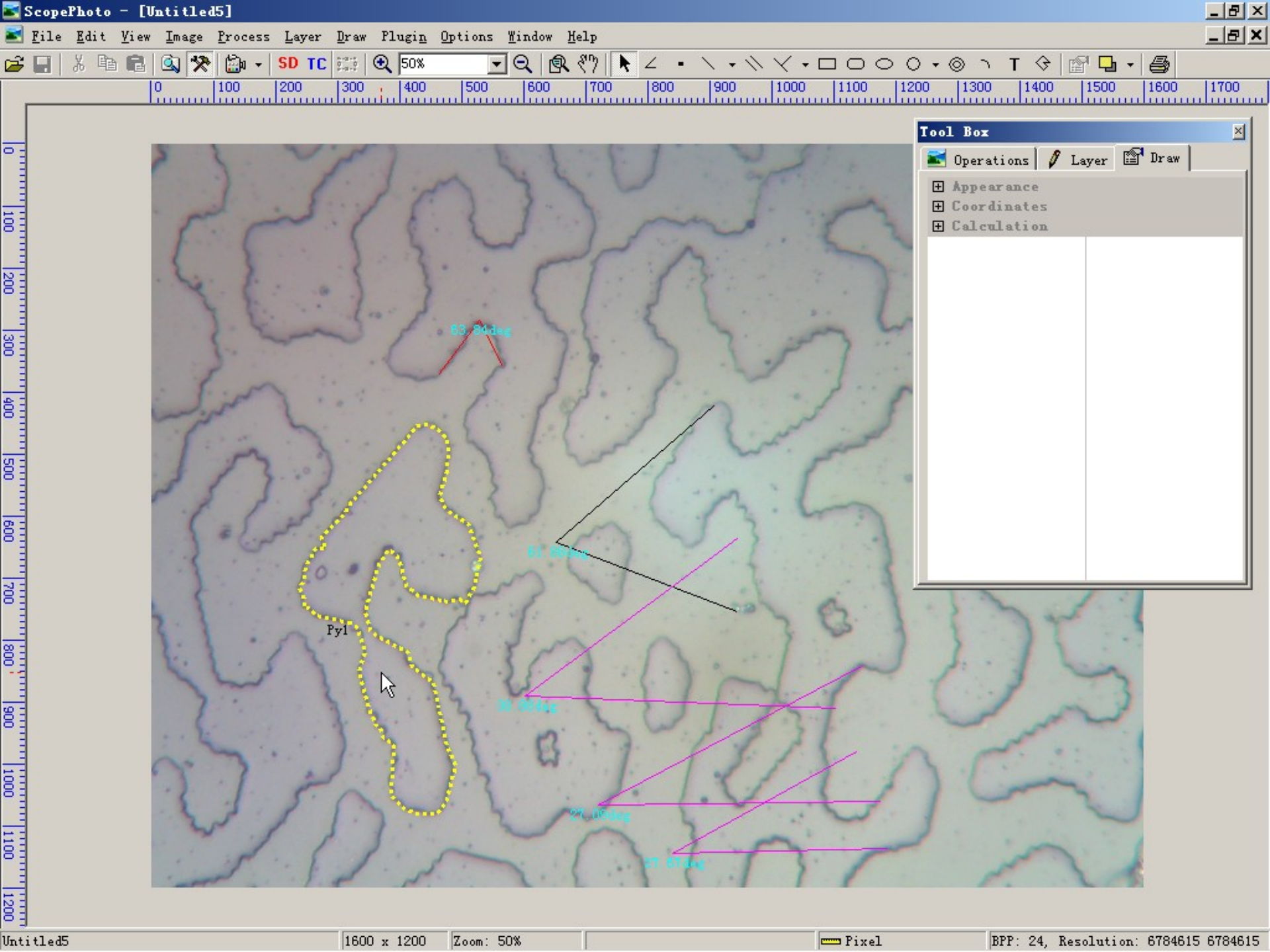

Set new angle line color (in group format)
ScopePhoto - [Untitled5]
File Edit View Image Process Layer Draw Plugin Options Window Help
SD TC
50%
Tool Box
Operations
Layer
Draw
Appearance
Line Width 0
Line Color 000000
Line Style
Coordinates
Point1.X 906
Point1.Y 422
Point2.X 652
Point2.Y 642
Point3.X 944
Point3.Y 754
Calculation
Draw
General
Unit
Length
Angle
Object
Point
Line
Parallel
Vertical
Angle
Rectangle
RoundRect
Circle
Arc
Annulus
Ellipse
Polygon
Text
Appearance
Line Width 0
Line Color
Line Style
Label
Prefix before the number: A
OK
Cancel
Untitled5
1600 x 1200
Zoom: 50%
Pixel
BPP: 24, Resolution: 6784615 6784615

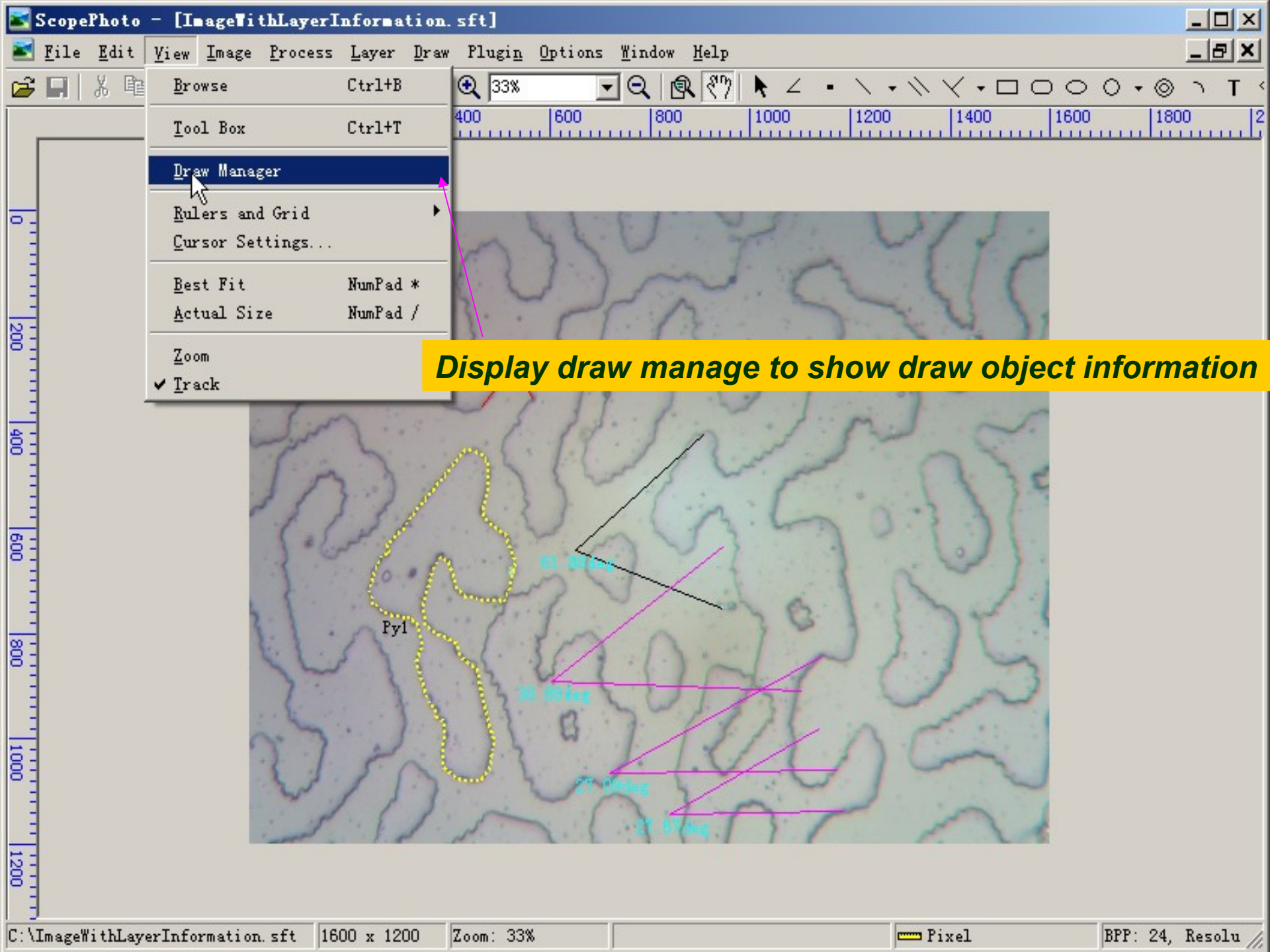

ScopePhoto - [Untitled5]
File Edit View Image Process Layer Draw Plugin Options Window Help
SD TC
50%
Tool Box
Operations
Layer
Draw
Appearance
Line Width 0
Line Color ff00ff
Line Style
Coordinates
Point1.X 1136
Point1.Y 980
Point2.X 840
Point2.Y 1144
Point3.X 1188
Point3.Y 1136
Calculation
Angle 0.48
All the new angle line will be in color
Untitled5
1600 x 1200
Zoom: 50%
Pixel
BPP: 24, Resolution: 6784615 6784615

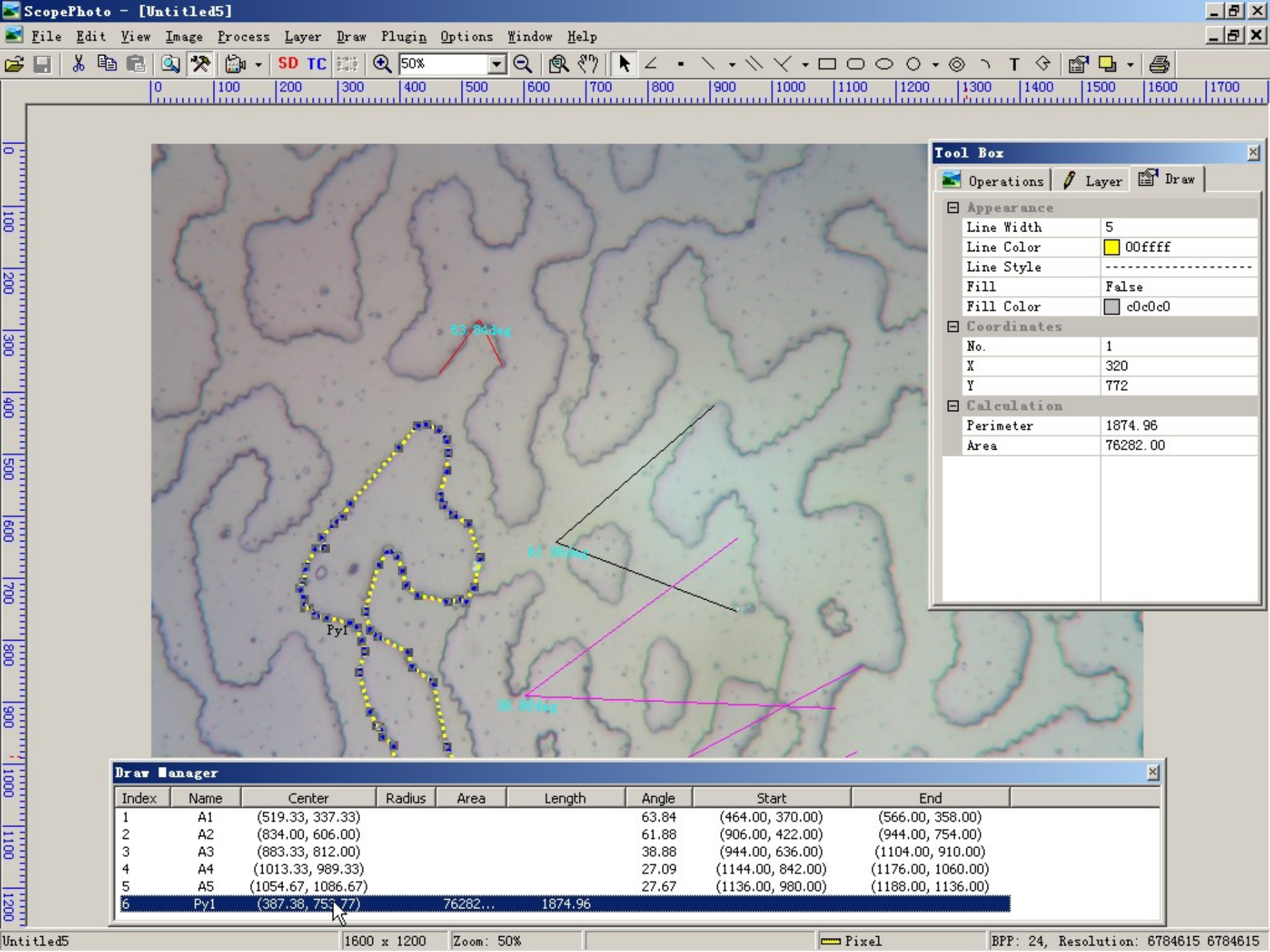

ScopePhoto - [Untitled5]
File Edit View Image Process Layer Draw Plugin Options Window Help
SD TC
50%
Change angle unit to degree
Tool Box
Operations
Layer
Draw
Appearance
Line Width
0
Line Color
ff00ff
Line Style
Coordinates
Point1.X
1136
Point1.Y
980
Point2.X
840
Point2.Y
1144
Point3.X
1188
Point3.Y
1136
Calculation
Draw
General
Unit
Length
Angle
Object
Point
Line
Parallel
Vertical
Angle
Rectangle
RoundRect
Circle
Arc
Annulus
Ellipse
Polygon
Text
Angle Unit
Degree
Radian
Degree
Pi
OK
Cancel
Untitled5
1600 x 1200
Zoom: 50%
Pixel
BPP: 24, Resolution: 6784615 6784615


ScopePhoto - [Untitled5]
File Edit View Image Process Layer Draw Plugin Options Window Help
SD TC
50%
Tool Box
Operations
Layer
Draw
Appearance
Line Width 0
Line Color ff00ff
Line Style
Coordinates
Point1.X 1136
Point1.Y 980
Point2.X 840
Point2.Y 1144
Point3.X 1188
Point3.Y 1136
Calculation
Angle 27.67
Now the angle is in degree
Untitled5
1600 x 1200
Zoom: 50%
Pixel
BPP: 24, Resolution: 6784615 6784615


ScopePhoto - [Untitled5]
File Edit View Image Process Layer Draw Plugin Options Window Help
Set polygon line color (in group)
Tool Box
Operations
Layer
Draw
Appearance
Coordinates
Calculation
Draw
General
Unit
Length
Angle
Object
Point
Line
Parallel
Vertical
Angle
Rectangle
RoundRect
Circle
Arc
Annulus
Ellipse
Polygon
Text
Appearance
Line Width
2
Fill
Line Color
Fill Color
Line Style
Label
Prefix before the number:
Py
OK
Cancel
Untitled5
1600 x 1200
Zoom: 50%
Pixel
BPP: 24, Resolution: 6784615 6784615


ScopePhoto - [Untitled5]
File Edit View Image Process Layer Draw Plugin Options Window Help
SD TC
50%
Tool Box
Operations
Layer
Draw
Appearance
Coordinates
Calculation
Pyl
Untitled5
1600 x 1200
Zoom: 50%
Pixel
BPP: 24, Resolution: 6784615 6784615


ScopePhoto - [ImageWithLayerInformation.sft]
File Edit View Image Process Layer Draw Plugin Options Window Help
Browse Ctrl+B
Tool Box Ctrl+T
Draw Manager
Rulers and Grid
Cursor Settings...
Best Fit NumPad *
Actual Size NumPad /
Zoom
Track
33%
Display draw manage to show draw object information
Py1
C:\ImageWithLayerInformation.sft
1600 x 1200
Zoom: 33%
Pixel
BPP: 24, Resolu

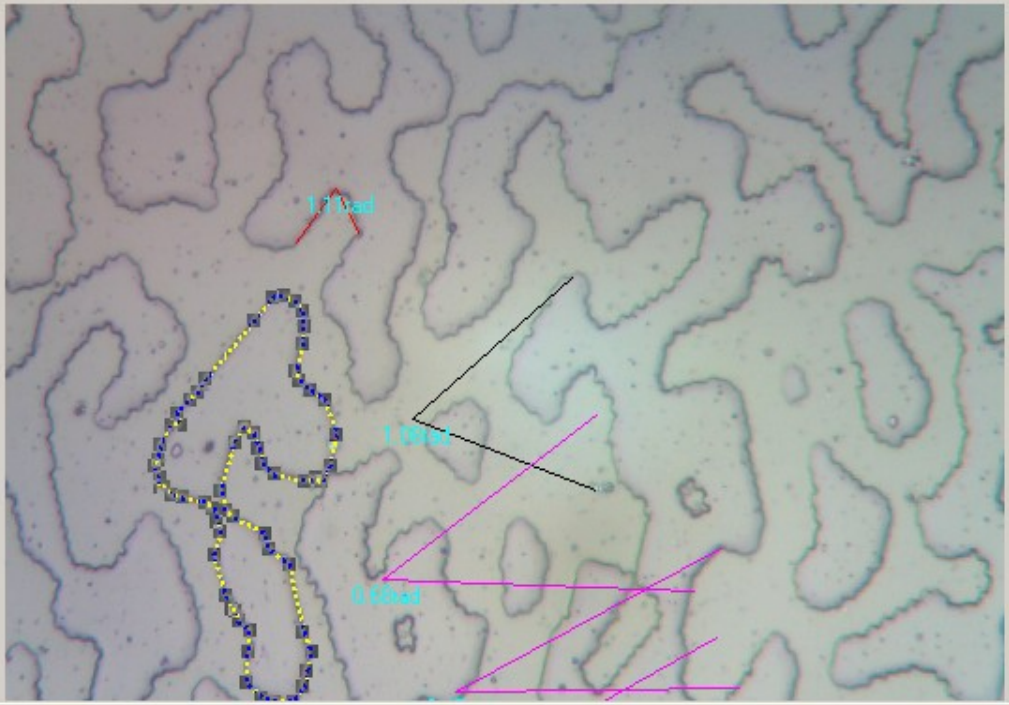

ScopePhoto - [Untitled5]
File Edit View Image Process Layer Draw Plugin Options Window Help
SD TC
50%
Tool Box
Operations
Layer
Draw
Appearance
Line Width 5
Line Color 00ffff
Line Style
Fill False
Fill Color c0c0c0
Coordinates
No. 1
X 320
Y 772
Calculation
Perimeter 1874.96
Area 76282.00
Py1
Draw Manager
Index Name Center Radius Area Length Angle Start End
1 A1 (519.33, 337.33) 63.84 (464.00, 370.00) (566.00, 358.00)
2 A2 (834.00, 606.00) 61.88 (906.00, 422.00) (944.00, 754.00)
3 A3 (883.33, 812.00) 38.88 (944.00, 636.00) (1104.00, 910.00)
4 A4 (1013.33, 989.33) 27.09 (1144.00, 842.00) (1176.00, 1060.00)
5 A5 (1054.67, 1086.67) 27.67 (1136.00, 980.00) (1188.00, 1136.00)
6 Py1 (387.38, 753.77) 76282... 1874.96
Untitled5
1600 x 1200
Zoom: 50%
Pixel
BPP: 24, Resolution: 6784615 6784615

ScopePhoto - [ImageWithLayerInformation.sft]

File Edit View Image Process Layer Draw Plugin Options Window Help

Preferences...
Draw...
Auto Correction...

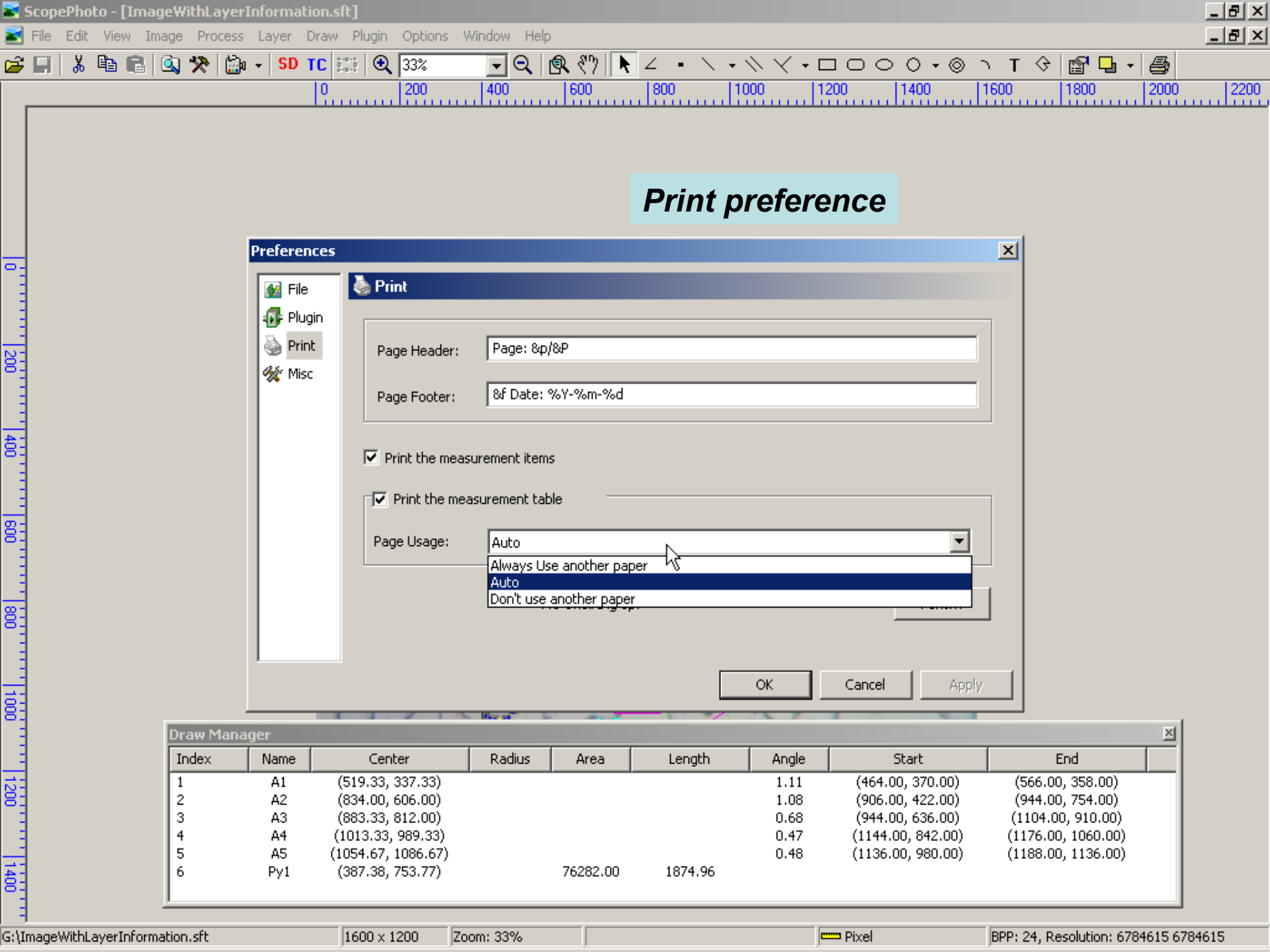
Layer print preference

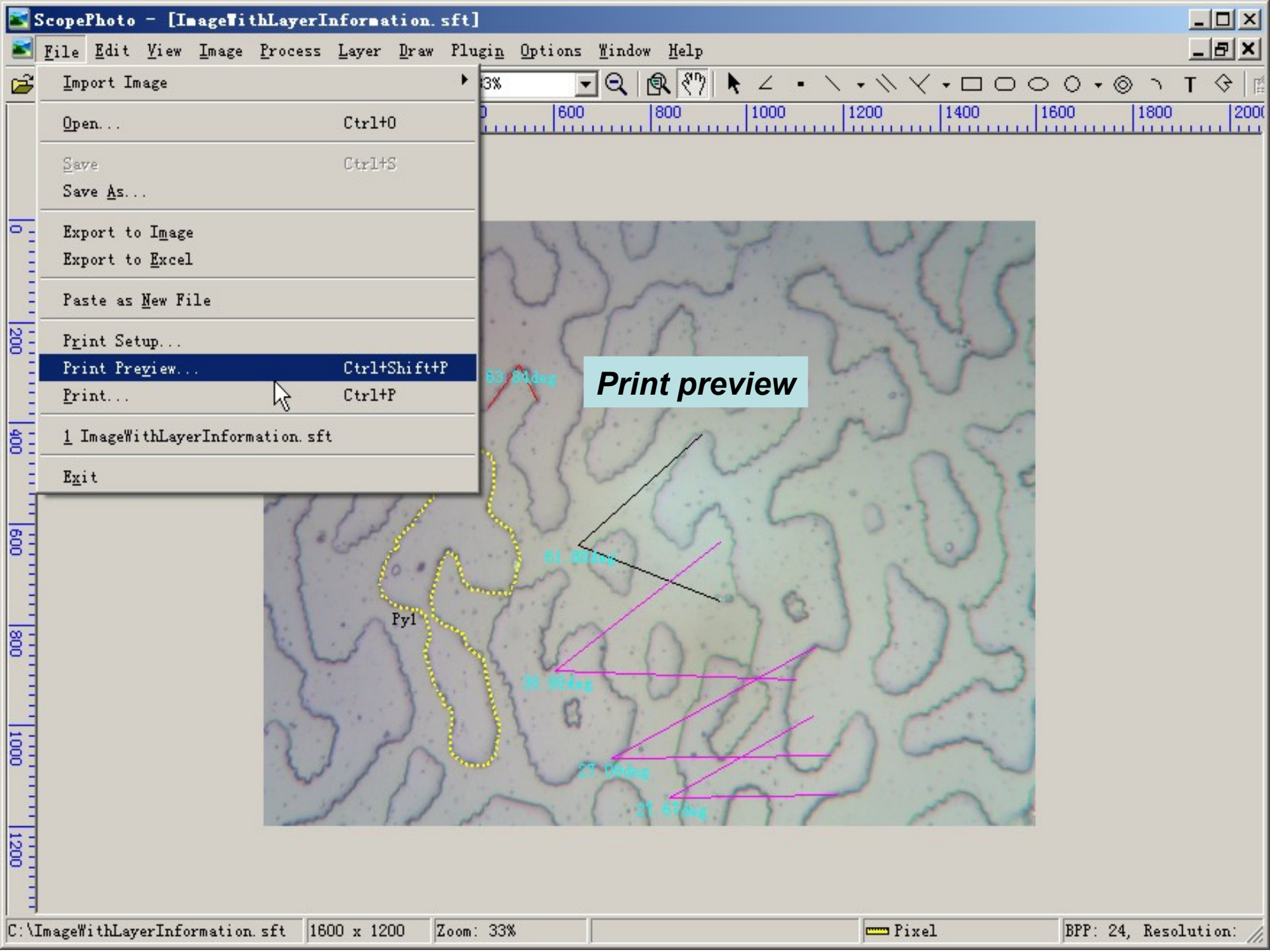


Draw Manager

Index	Name	Center	Radius	Area	Length	Angle	Start	End
1	A1	(519.33, 337.33)				1.11	(464.00, 370.00)	(566.00, 358.00)
2	A2	(834.00, 606.00)				1.08	(906.00, 422.00)	(944.00, 754.00)
3	A3	(883.33, 812.00)				0.68	(944.00, 636.00)	(1104.00, 910.00)
4	A4	(1013.33, 989.33)				0.47	(1144.00, 842.00)	(1176.00, 1060.00)
5	A5	(1054.67, 1086.67)				0.48	(1136.00, 980.00)	(1188.00, 1136.00)
6	Py1	(387.38, 753.77)		76282.00	1874.96			

G:\ImageWithLayerInformation.sft | 1600 x 1200 | Zoom: 33% | Pixel | BPP: 24, Resolution: 6784615 6784615


ScopePhoto - [ImageWithLayerInformation.sft]
File Edit View Image Process Layer Draw Plugin Options Window Help
Print preference
Preferences
File
Plugin
Print
Misc
Print
Page Header: Page: &p/&P
Page Footer: &f Date: %Y-%m-%d
Print the measurement items
Print the measurement table
Page Usage: Auto
Always Use another paper
Auto
Don't use another paper
OK
Cancel
Apply
Draw Manager
Index Name Center Radius Area Length Angle Start End
1 A1 (519.33, 337.33) 1.11 (464.00, 370.00) (566.00, 358.00)
2 A2 (834.00, 606.00) 1.08 (906.00, 422.00) (944.00, 754.00)
3 A3 (883.33, 812.00) 0.68 (944.00, 636.00) (1104.00, 910.00)
4 A4 (1013.33, 989.33) 0.47 (1144.00, 842.00) (1176.00, 1060.00)
5 A5 (1054.67, 1086.67) 0.48 (1136.00, 980.00) (1188.00, 1136.00)
6 Py1 (387.38, 753.77) 76282.00 1874.96
G:\ImageWithLayerInformation.sft
1600 x 1200
Zoom: 33%
Pixel
BPP: 24, Resolution: 6784615 6784615

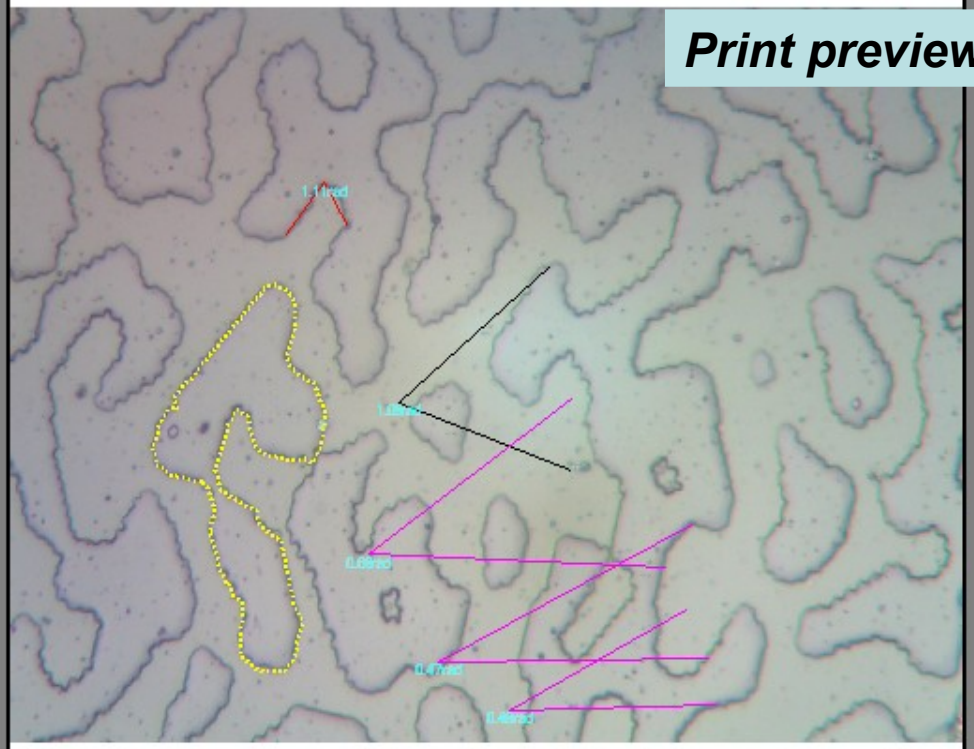

ScopePhoto - [ImageWithLayerInformation.sft]
File Edit View Image Process Layer Draw Plugin Options Window Help
Import Image
Open... Ctrl+O
Save Ctrl+S
Save As...
Export to Image
Export to Excel
Paste as New File
Print Setup...
Print Preview... Ctrl+Shift+P
Print... Ctrl+P
1 ImageWithLayerInformation.sft
Exit
Print preview
Pyl
C:\ImageWithLayerInformation.sft
1600 x 1200
Zoom: 33%
Pixel
BPP: 24, Resolution:

ScopePhoto - [ImageWithLayerInformation.sft]

Print... | Next Page | Prev Page | Two Page | Zoom In | Zoom Out | Close

Page : 1/1

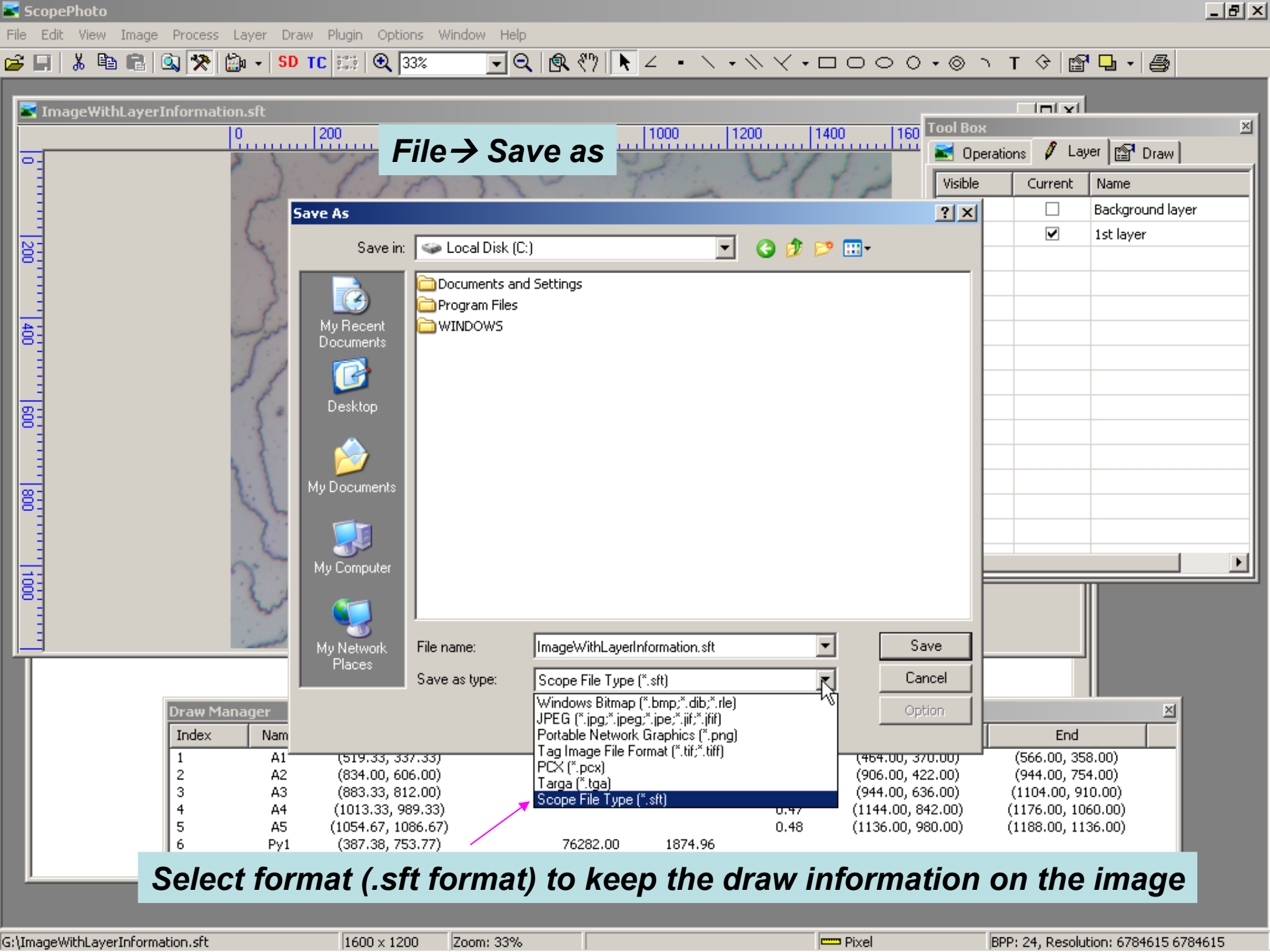
Print preview

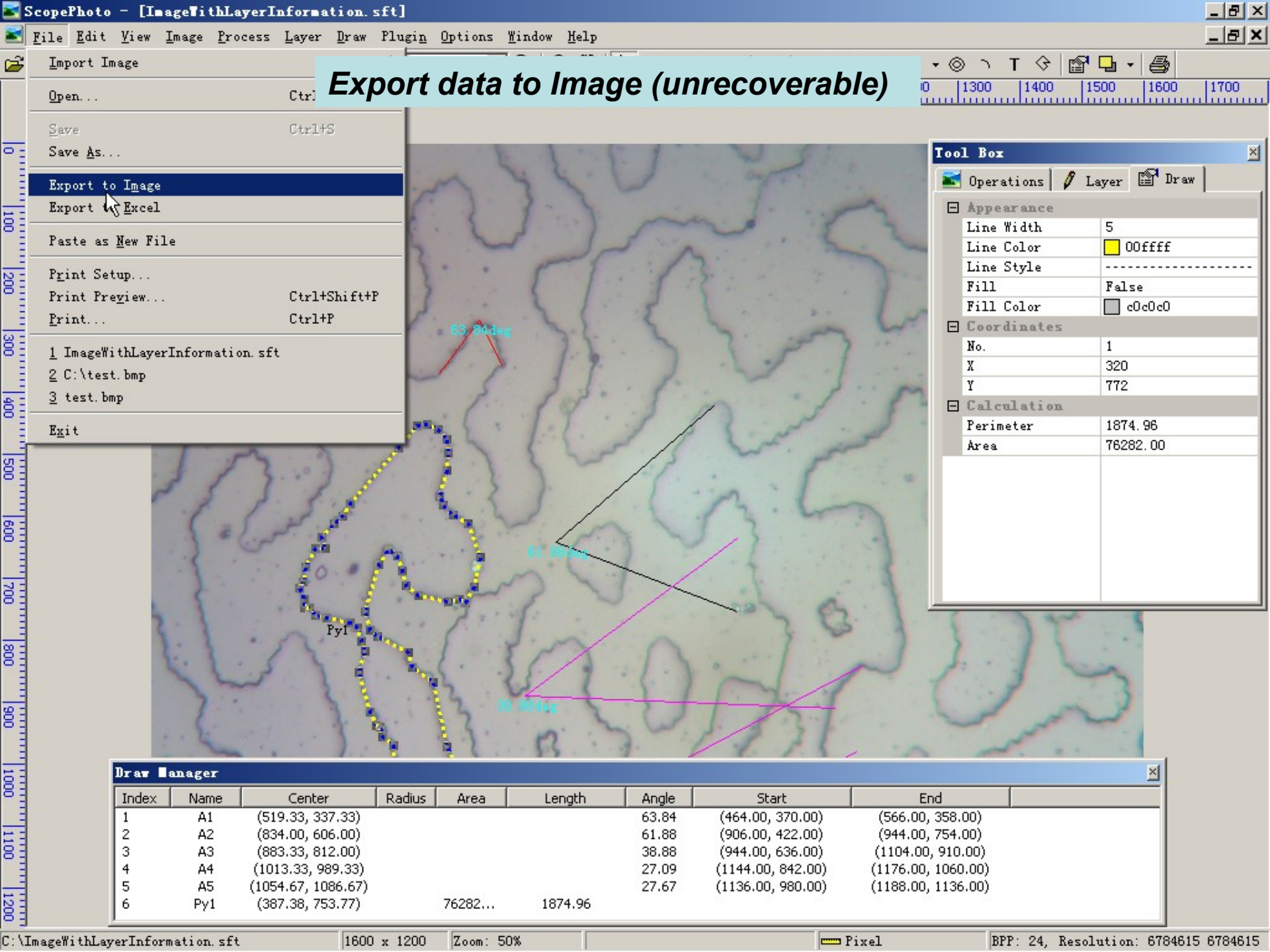


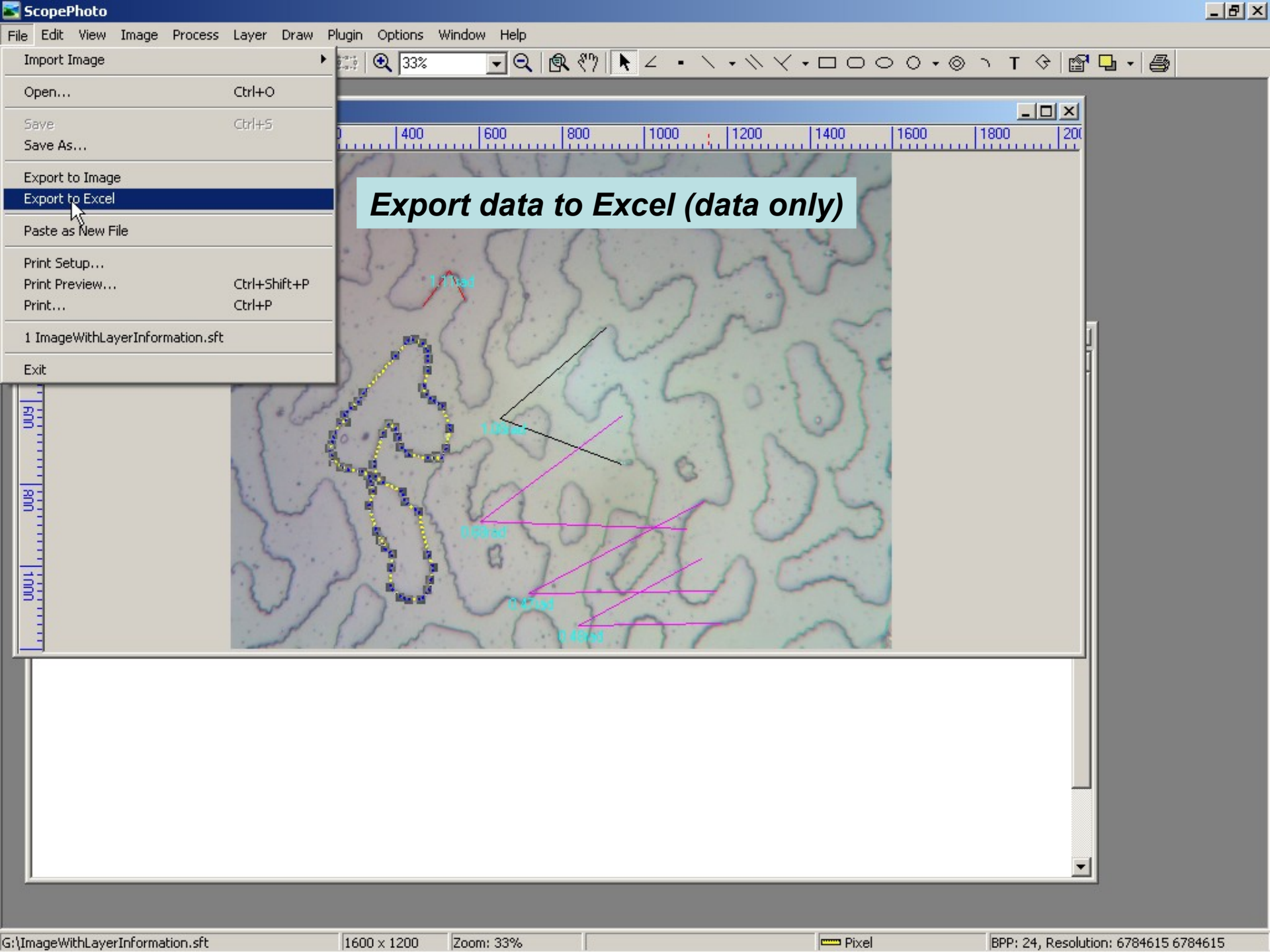
Index	Name	Center	Radius	Area	Length	Angle	Start	End
1st layer								
1	A1	(519.33, 337.33)				1.11	(484.00, 370.00)	(566.00, 358.00)
2	A2	(834.00, 606.00)				1.08	(906.00, 422.00)	(944.00, 754.00)
3	A3	(883.33, 812.00)				0.68	(944.00, 636.00)	(1104.00, 910.00)
4	A4	(1013.33, 989.33)				0.47	(1144.00, 842.00)	(1176.00, 1060.00)
5	A5	(1054.67, 1086.67)				0.48	(1136.00, 980.00)	(1188.00, 1136.00)
6	Py1	(387.38, 753.77)		76282.00	1874.96			

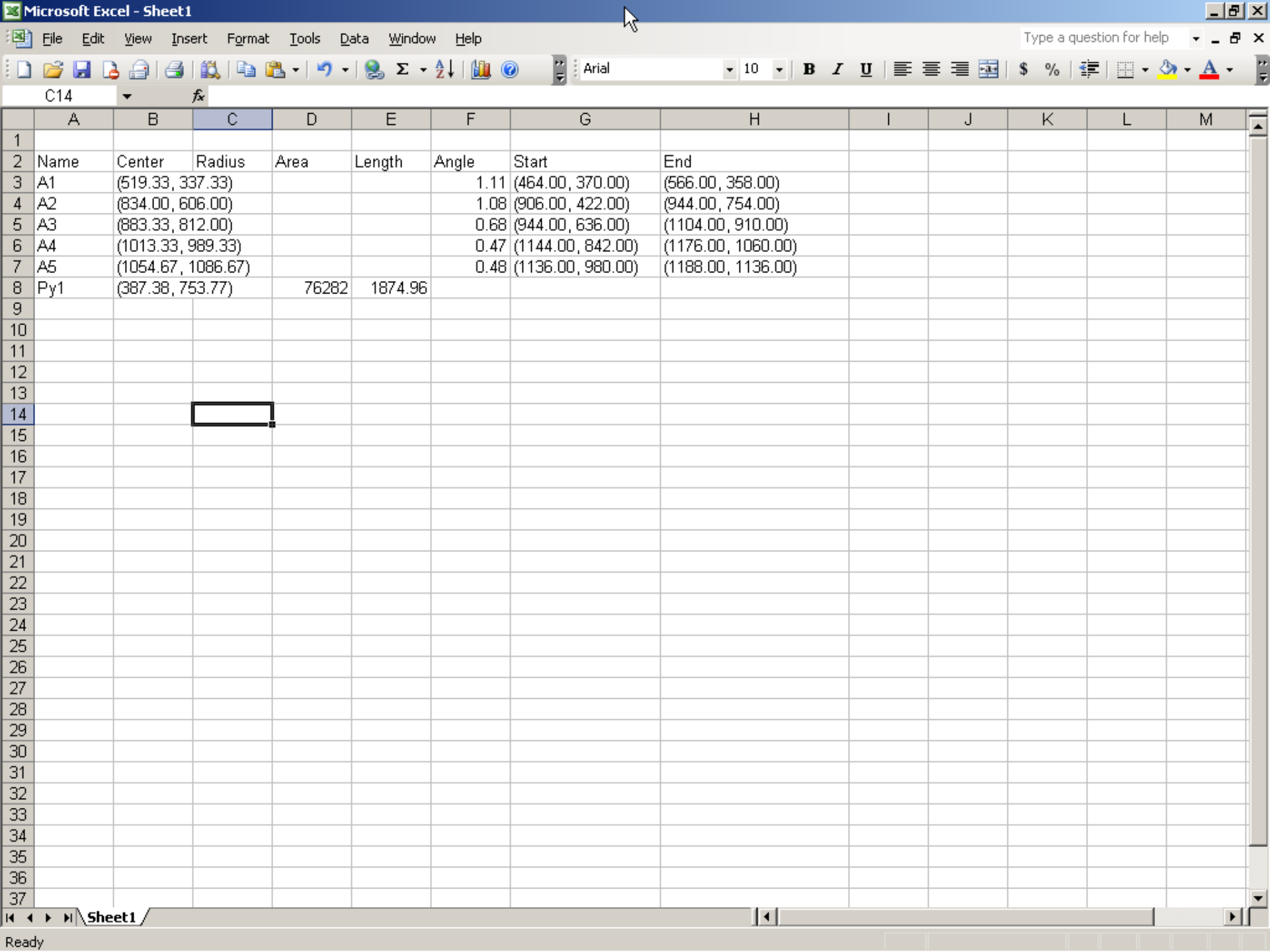
ImageWithLayerInformation.sft Date: 2007-05-30

G:\ImageWithLayerInformation.sft | 1600 x 1200 | Zoom: 33% | Pixel | BPP: 24, Resolution: 6784615 6784615

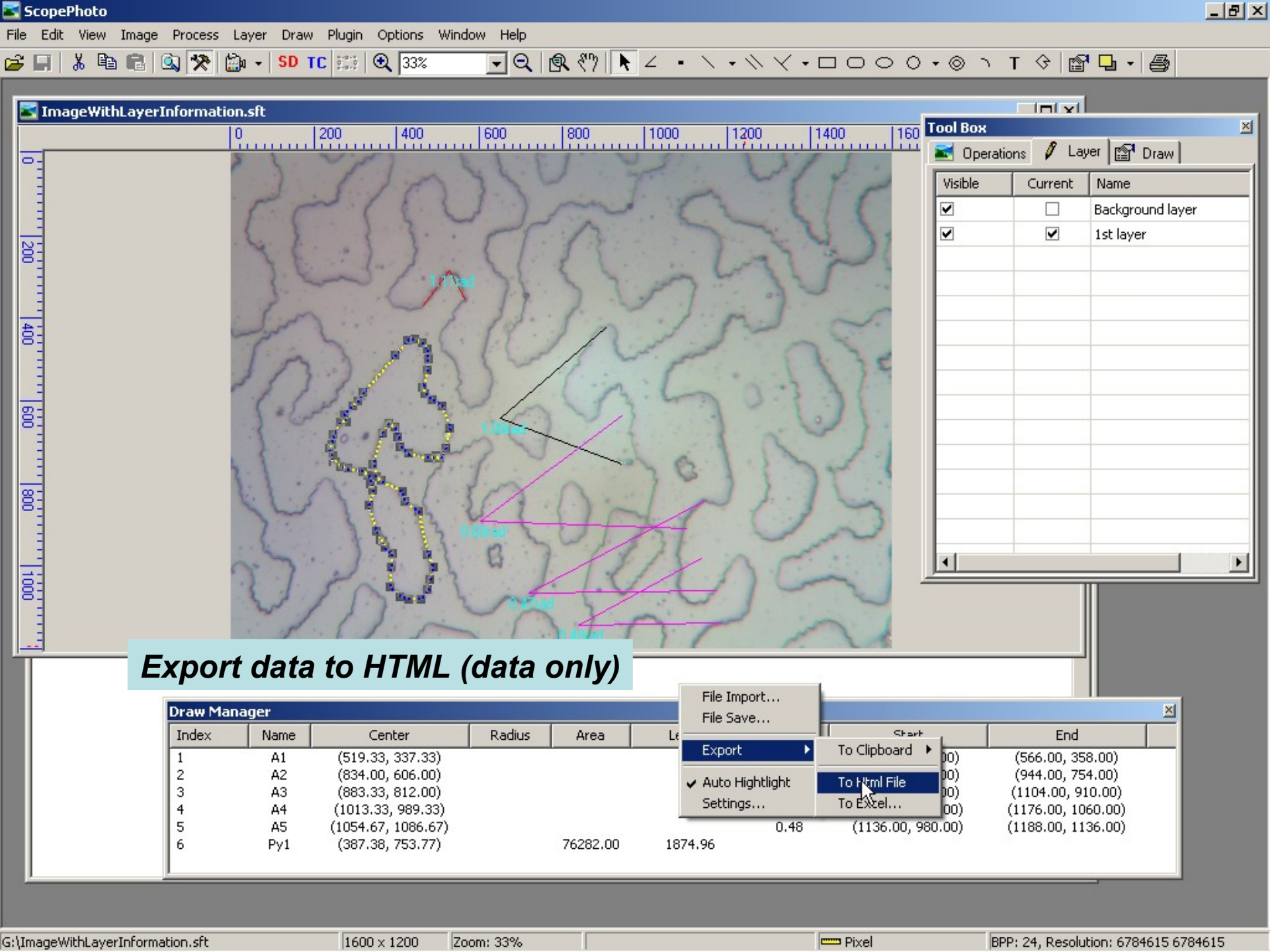

ScopePhoto
File Edit View Image Process Layer Draw Plugin Options Window Help
ImageWithLayerInformation.sft
File→ Save as
Tool Box
Operations
Layer
Draw
Visible
Current
Name
Background layer
1st layer
Save As
Save in:
Local Disk (C:)
Documents and Settings
Program Files
WINDOWS
My Recent Documents
Desktop
My Documents
My Computer
My Network Places
File name:
ImageWithLayerInformation.sft
Save as type:
Scope File Type (*.sft)
Save
Cancel
Option
Windows Bitmap (*.bmp;*.dib;*.rle)
JPEG (*.jpg;*.jpeg;*.jpe;*.jif;*.jfif)
Portable Network Graphics (*.png)
Tag Image File Format (*.tif;*.tiff)
PCX (*.pcx)
Targa (*.tga)
Scope File Type (*.sft)
Draw Manager
Index
Nam
End
1 A1 (519.33, 337.33) (566.00, 358.00)
2 A2 (834.00, 606.00) (906.00, 422.00) (944.00, 754.00)
3 A3 (883.33, 812.00) (944.00, 636.00) (1104.00, 910.00)
4 A4 (1013.33, 989.33) (1144.00, 842.00) (1176.00, 1060.00)
5 A5 (1054.67, 1086.67) 0.48 (1136.00, 980.00) (1188.00, 1136.00)
6 Py1 (387.38, 753.77) 76282.00 1874.96
Select format (.sft format) to keep the draw information on the image
G:\ImageWithLayerInformation.sft
1600 x 1200
Zoom: 33%
Pixel
BPP: 24, Resolution: 6784615 6784615


ScopePhoto - [ImageWithLayerInformation.sft]
File Edit View Image Process Layer Draw Plugin Options Window Help
Import Image
Open...
Save
Save As...
Export to Image
Export Excel
Paste as New File
Print Setup...
Print Preview...
Print...
1 ImageWithLayerInformation.sft
2 C:\test.bmp
3 test.bmp
Exit
Export data to Image (unrecoverable)
Tool Box
Operations
Layer
Draw
Appearance
Line Width 5
Line Color 00ffff
Line Style
Fill False
Fill Color c0c0c0
Coordinates
No. 1
X 320
Y 772
Calculation
Perimeter 1874.96
Area 76282.00
Py1
Draw Manager
Index Name Center Radius Area Length Angle Start End
1 A1 (519.33, 337.33) 63.84 (464.00, 370.00) (566.00, 358.00)
2 A2 (834.00, 606.00) 61.88 (906.00, 422.00) (944.00, 754.00)
3 A3 (883.33, 812.00) 38.88 (944.00, 636.00) (1104.00, 910.00)
4 A4 (1013.33, 989.33) 27.09 (1144.00, 842.00) (1176.00, 1060.00)
5 A5 (1054.67, 1086.67) 27.67 (1136.00, 980.00) (1188.00, 1136.00)
6 Py1 (387.38, 753.77) 76282... 1874.96
C:\ImageWithLayerInformation.sft
1600 x 1200
Zoom: 50%
Pixel
BPP: 24, Resolution: 6784615 6784615


ScopePhoto
File Edit View Image Process Layer Draw Plugin Options Window Help
Import Image
Open... Ctrl+O
Save Ctrl+S
Save As...
Export to Image
Export to Excel
Paste as New File
Print Setup...
Print Preview... Ctrl+Shift+P
Print... Ctrl+P
1 ImageWithLayerInformation.sft
Exit
33%
Export data to Excel (data only)
G:\ImageWithLayerInformation.sft
1600 x 1200
Zoom: 33%
Pixel
BPP: 24, Resolution: 6784615 6784615



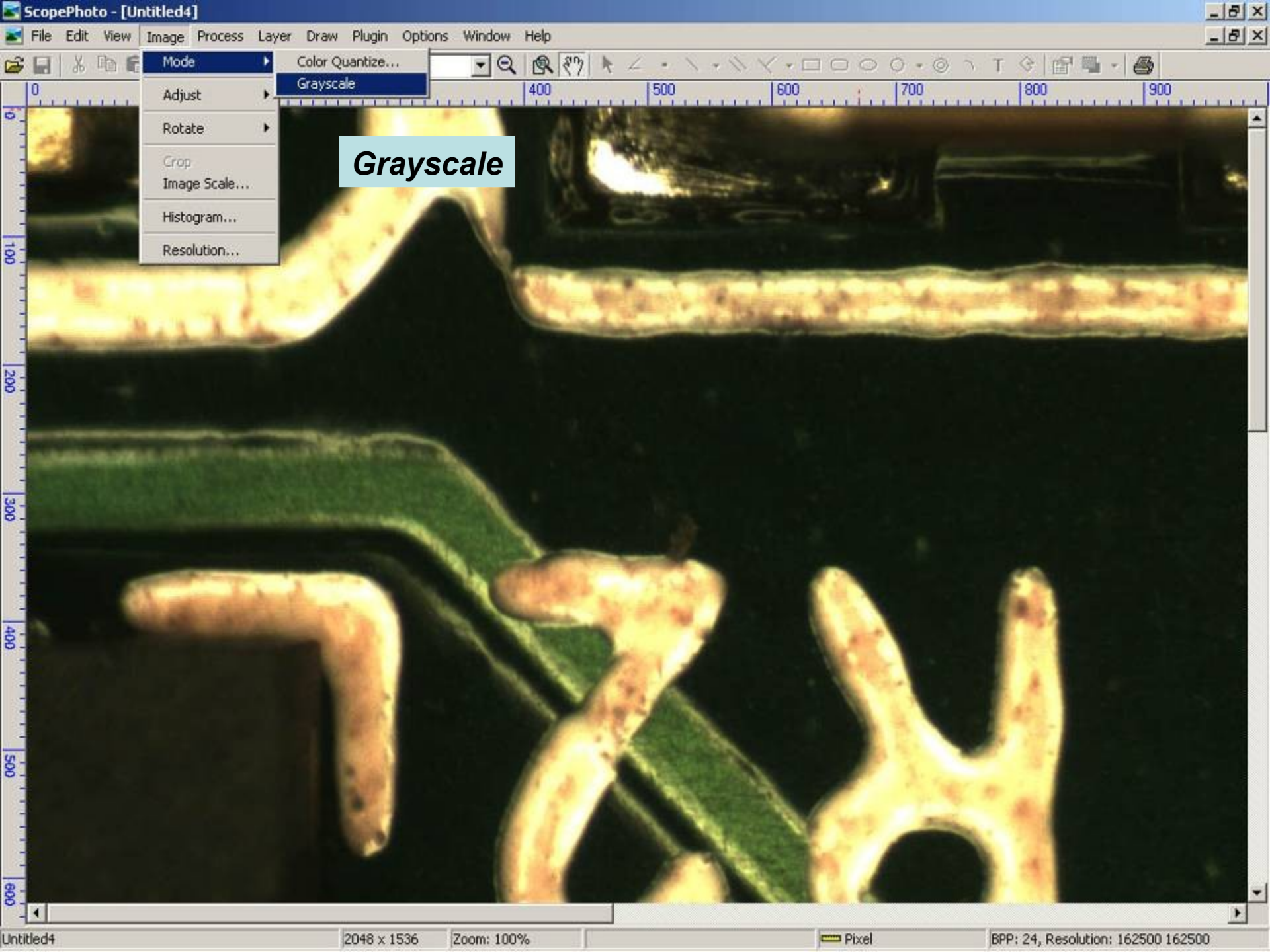
	A	B	C	D	E	F	G	H
1								
2	Name	Center	Radius	Area	Length	Angle	Start	End
3	A1	(519.33, 337.33)				1.11	(464.00, 370.00)	(566.00, 358.00)
4	A2	(834.00, 606.00)				1.08	(906.00, 422.00)	(944.00, 754.00)
5	A3	(883.33, 812.00)				0.68	(944.00, 636.00)	(1104.00, 910.00)
6	A4	(1013.33, 989.33)				0.47	(1144.00, 842.00)	(1176.00, 1060.00)
7	A5	(1054.67, 1086.67)				0.48	(1136.00, 980.00)	(1188.00, 1136.00)
8	Py1	(387.38, 753.77)		76282	1874.96			

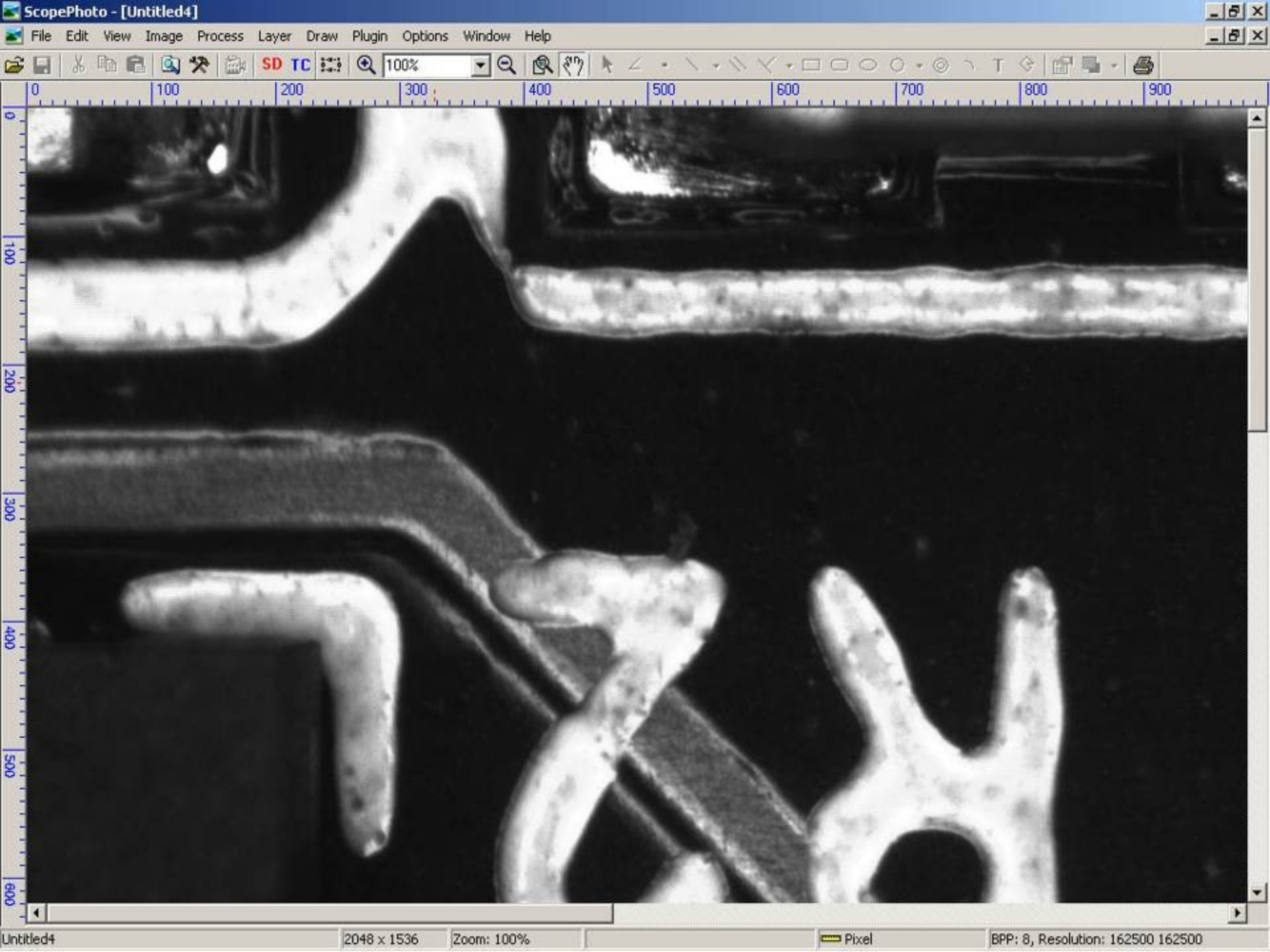

ScopePhoto
File Edit View Image Process Layer Draw Plugin Options Window Help
ImageWithLayerInformation.sft
Tool Box
Operations
Layer
Draw
Visible
Current
Name
Background layer
1st layer
Export data to HTML (data only)
Draw Manager
Index
Name
Center
Radius
Area
End
1 A1 (519.33, 337.33) (566.00, 358.00)
2 A2 (834.00, 606.00) (944.00, 754.00)
3 A3 (883.33, 812.00) (1104.00, 910.00)
4 A4 (1013.33, 989.33) (1176.00, 1060.00)
5 A5 (1054.67, 1086.67) 0.48 (1136.00, 980.00) (1188.00, 1136.00)
6 Py1 (387.38, 753.77) 76282.00 1874.96
File Import...
File Save...
Export
To Clipboard
Auto Hightlight
To Html File
Settings...
To Excel...
G:\ImageWithLayerInformation.sft
1600 x 1200
Zoom: 33%
Pixel
BPP: 24, Resolution: 6784615 6784615

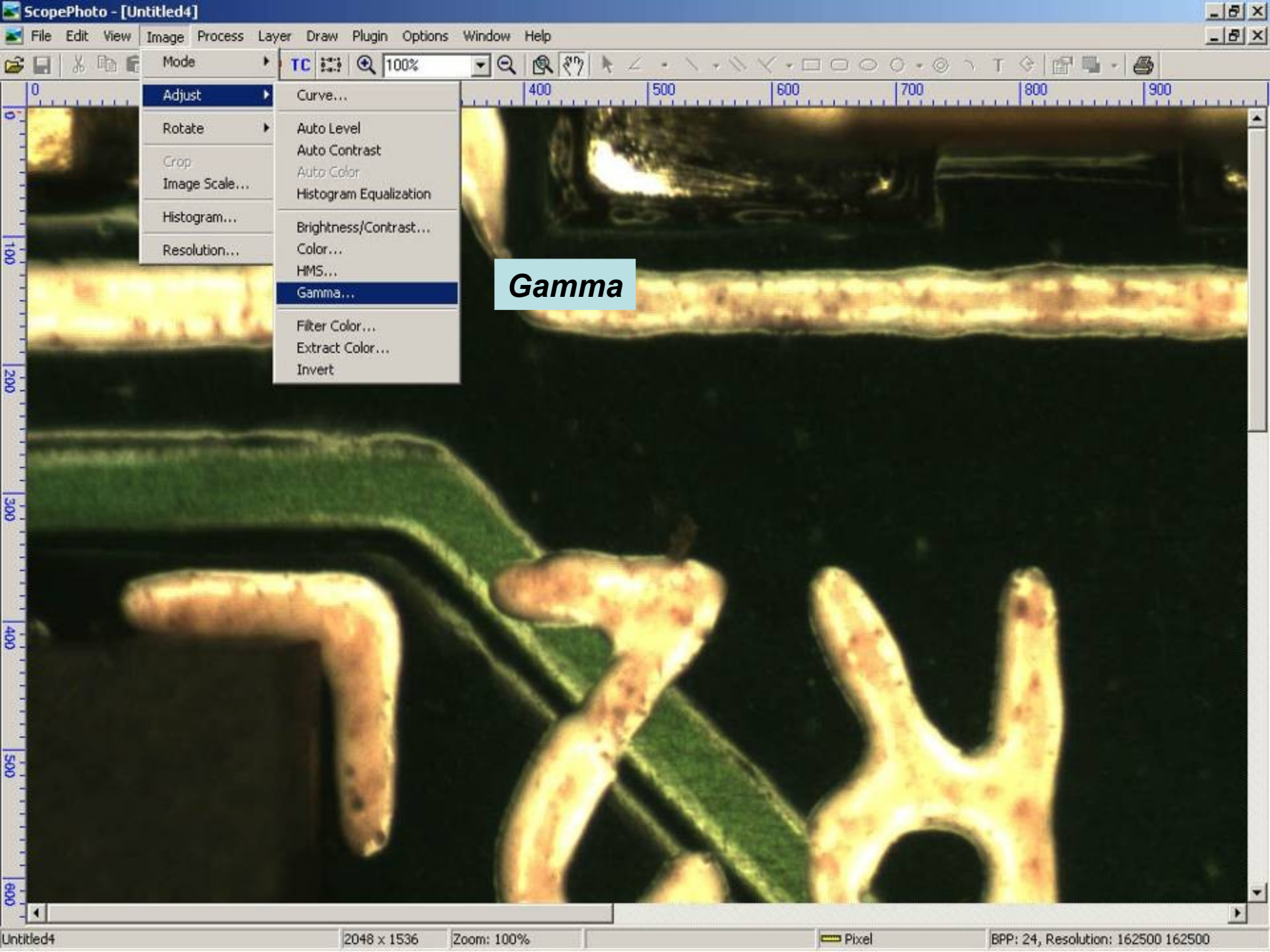
Layer Name	Index	Name	Center	Radius	Area	Length	Angle	Start	End
1st layer	1	A1	(519.33, 337.33)	¶	¶	¶	1.11	(464.00, 370.00)	(566.00, 358.00)
	2	A2	(834.00, 606.00)	¶	¶	¶	1.08	(906.00, 422.00)	(944.00, 754.00)
	3	A3	(883.33, 812.00)	¶	¶	¶	0.68	(944.00, 636.00)	(1104.00, 910.00)
	4	A4	(1013.33, 989.33)	¶	¶	¶	0.47	(1144.00, 842.00)	(1176.00, 1060.00)
	5	A5	(1054.67, 1086.67)	¶	¶	¶	0.48	(1136.00, 980.00)	(1188.00, 1136.00)
	6	Py1	(387.38, 753.77)	¶	76282.00	1874.96	¶	¶	¶

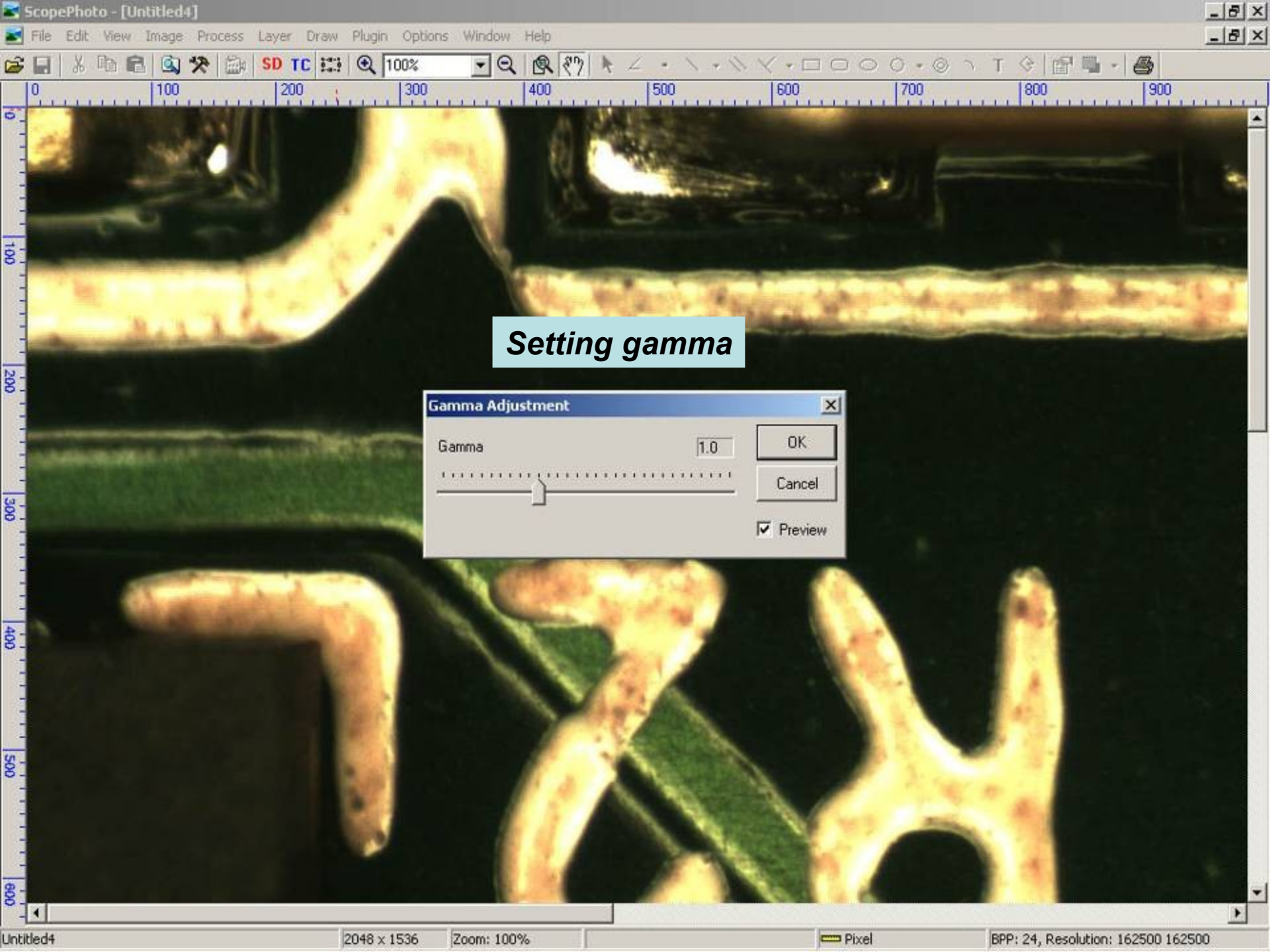
Length Unit:Pixel, Angle Unit:radian

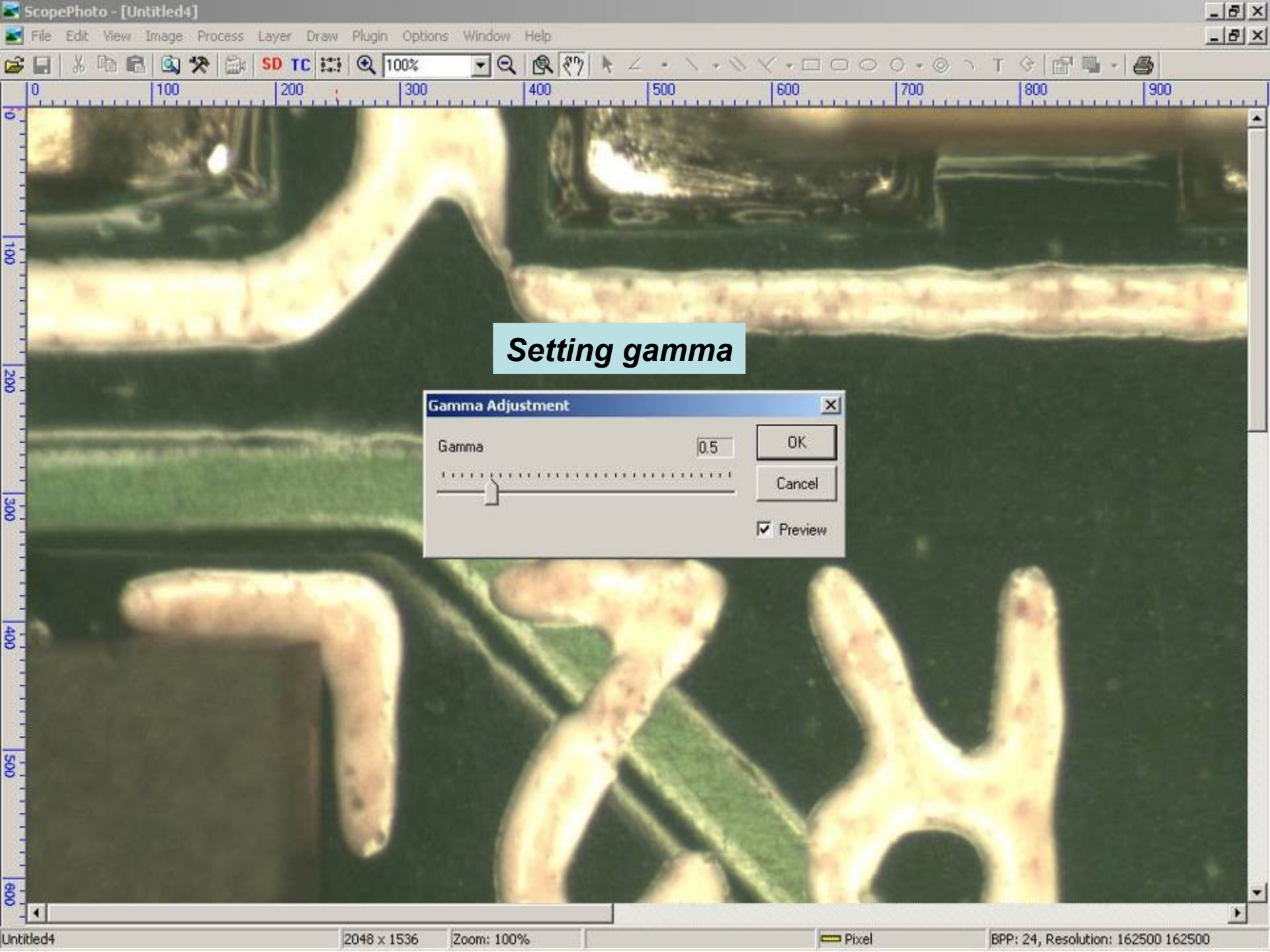
Image Processing

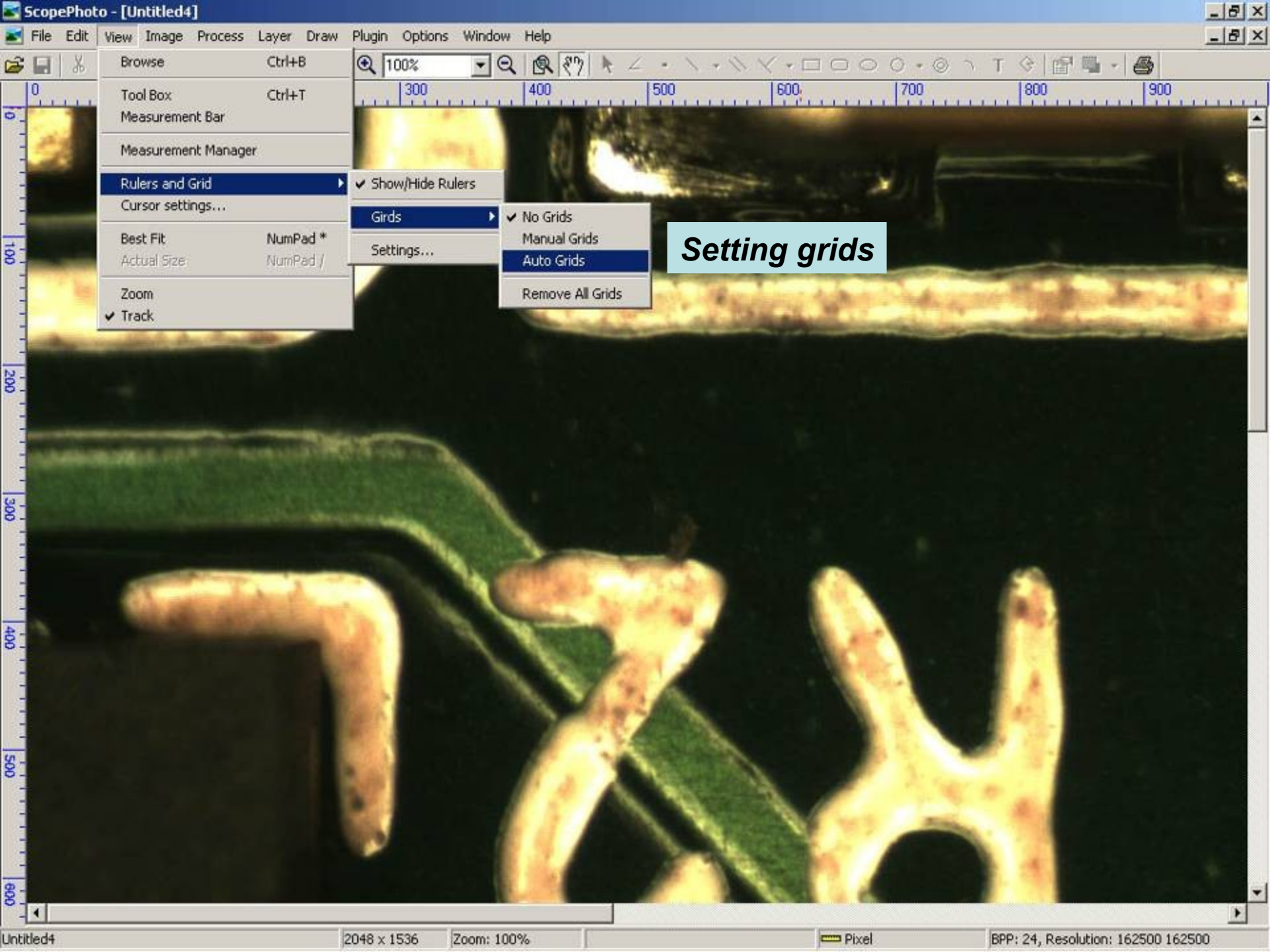

ScopePhoto - [Untitled4]
File Edit View Image Process Layer Draw Plugin Options Window Help
Mode
Adjust
Rotate
Crop
Image Scale...
Histogram...
Resolution...
Color Quantize...
Grayscale
Grayscale
Untitled4
2048 x 1536
Zoom: 100%
Pixel
BPP: 24, Resolution: 162500 162500

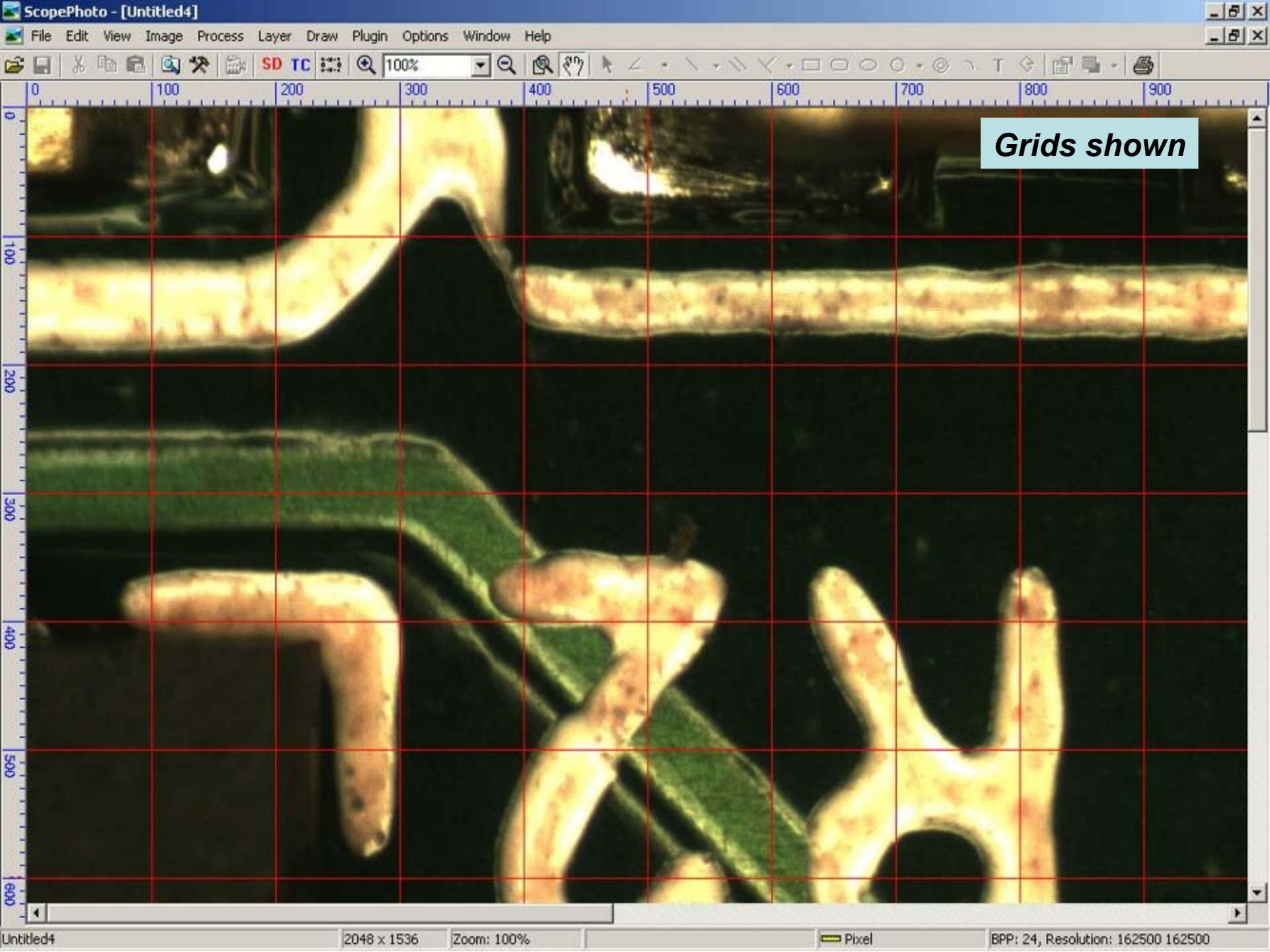

ScopePhoto - [Untitled4]
File Edit View Image Process Layer Draw Plugin Options Window Help
SD TC
100%
0 100 200 300 400 500 600 700 800 900
0 100 200 300 400 500 600
Untitled4
2048 x 1536
Zoom: 100%
Pixel
BPP: 8, Resolution: 162500 162500

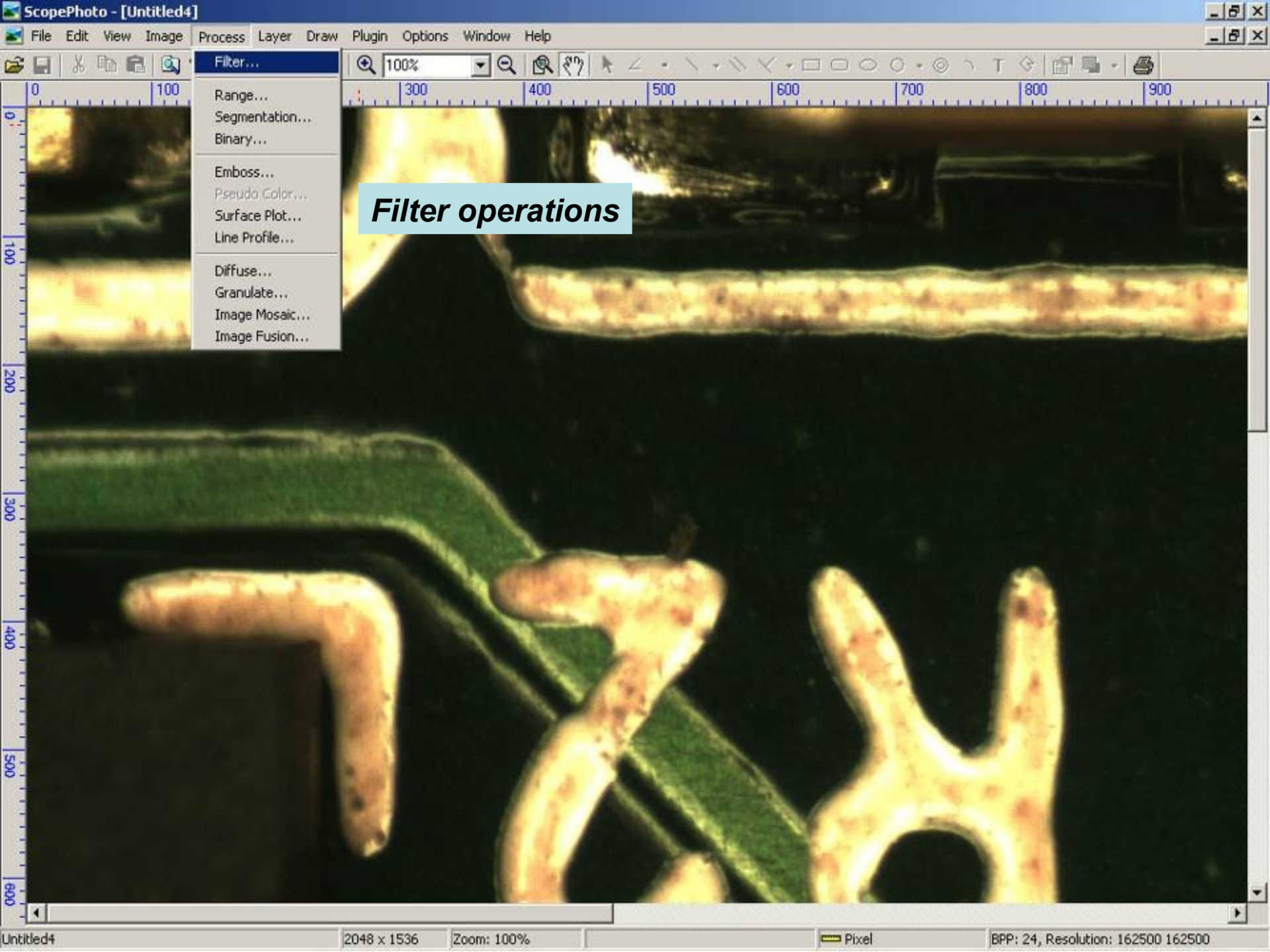

ScopePhoto - [Untitled4]
File Edit View Image Process Layer Draw Plugin Options Window Help
Mode
Adjust
Rotate
Crop
Image Scale...
Histogram...
Resolution...
Curve...
Auto Level
Auto Contrast
Auto Color
Histogram Equalization
Brightness/Contrast...
Color...
HMS...
Gamma...
Filter Color...
Extract Color...
Invert
100%
Gamma
Untitled4
2048 x 1536
Zoom: 100%
Pixel
BPP: 24, Resolution: 162500 162500

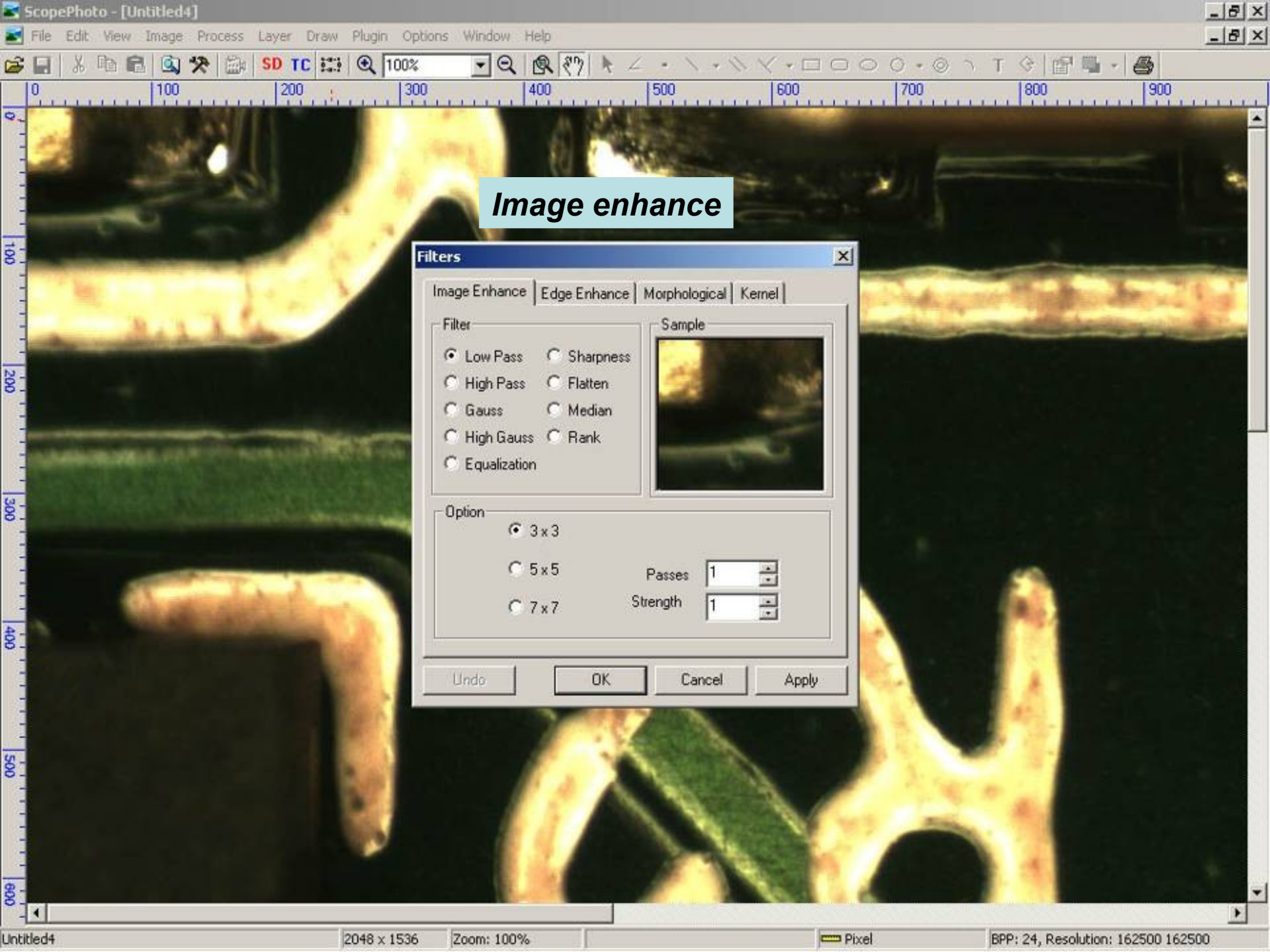

ScopePhoto - [Untitled4]
File Edit View Image Process Layer Draw Plugin Options Window Help
SD TC
100%
Setting gamma
Gamma Adjustment
Gamma
1.0
OK
Cancel
Preview
Untitled4
2048 x 1536
Zoom: 100%
Pixel
BPP: 24, Resolution: 162500 162500

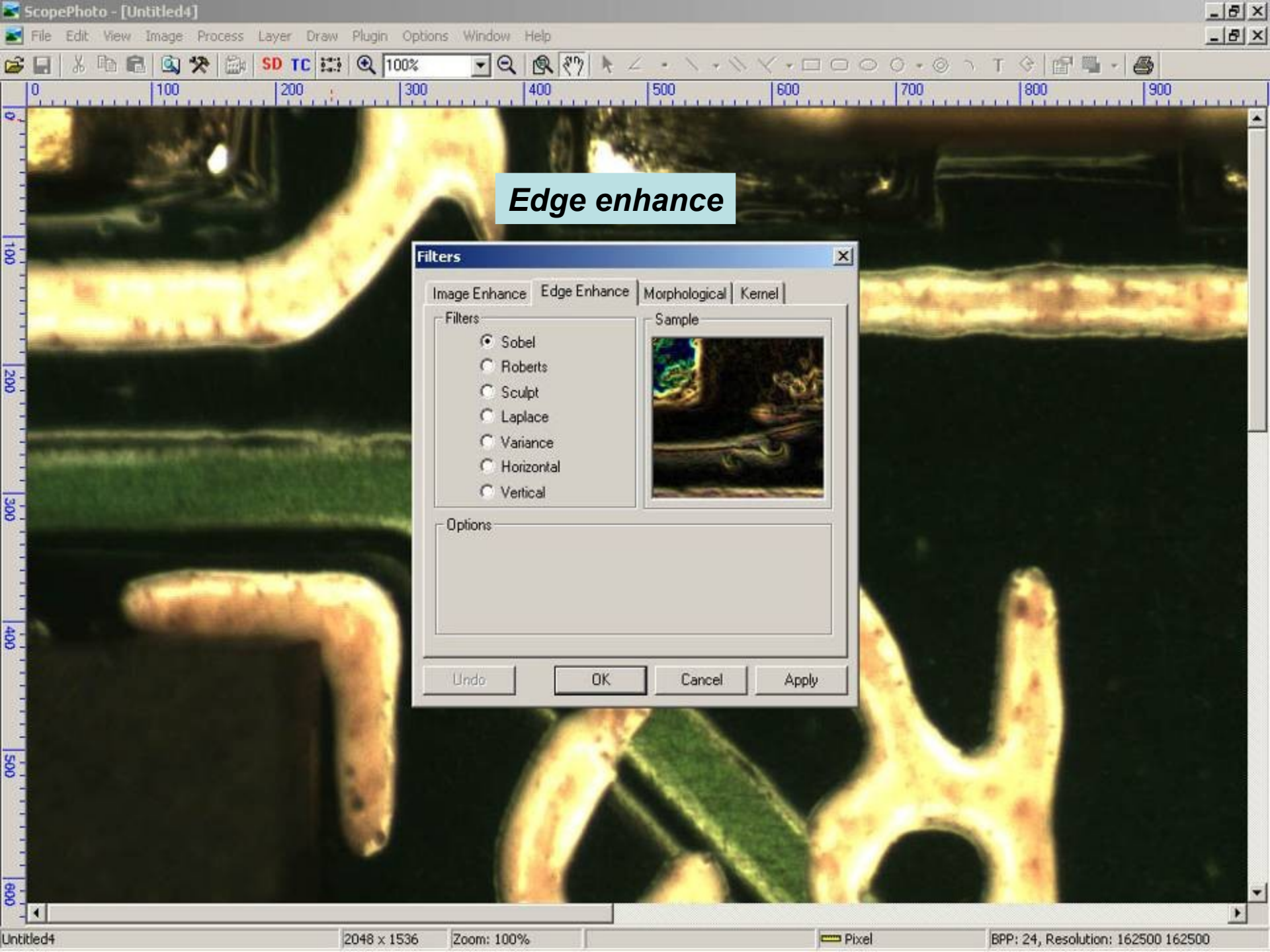

ScopePhoto - [Untitled4]
File Edit View Image Process Layer Draw Plugin Options Window Help
SD TC
100%
Setting gamma
Gamma Adjustment
Gamma
0.5
OK
Cancel
Preview
Untitled4
2048 x 1536
Zoom: 100%
Pixel
BPP: 24, Resolution: 162500 162500

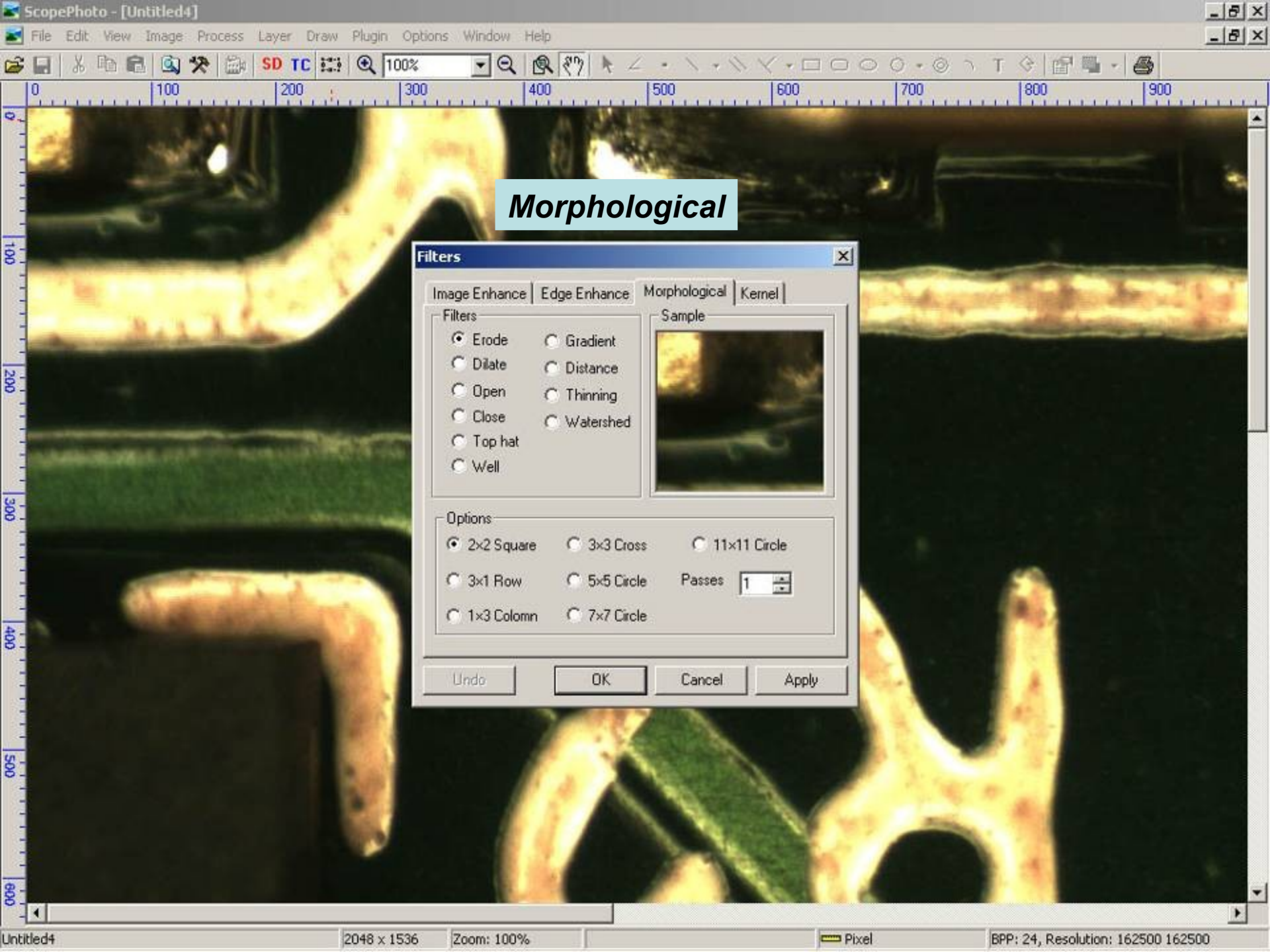

ScopePhoto - [Untitled4]
File Edit View Image Process Layer Draw Plugin Options Window Help
Browse Ctrl+B
Tool Box Ctrl+T
Measurement Bar
Measurement Manager
Rulers and Grid
Cursor settings...
Best Fit NumPad *
Actual Size NumPad /
Zoom
Track
Show/Hide Rulers
Girds
Settings...
No Grids
Manual Grids
Auto Grids
Remove All Grids
Setting grids
100%
Untitled4
2048 x 1536
Zoom: 100%
Pixel
BPP: 24, Resolution: 162500 162500

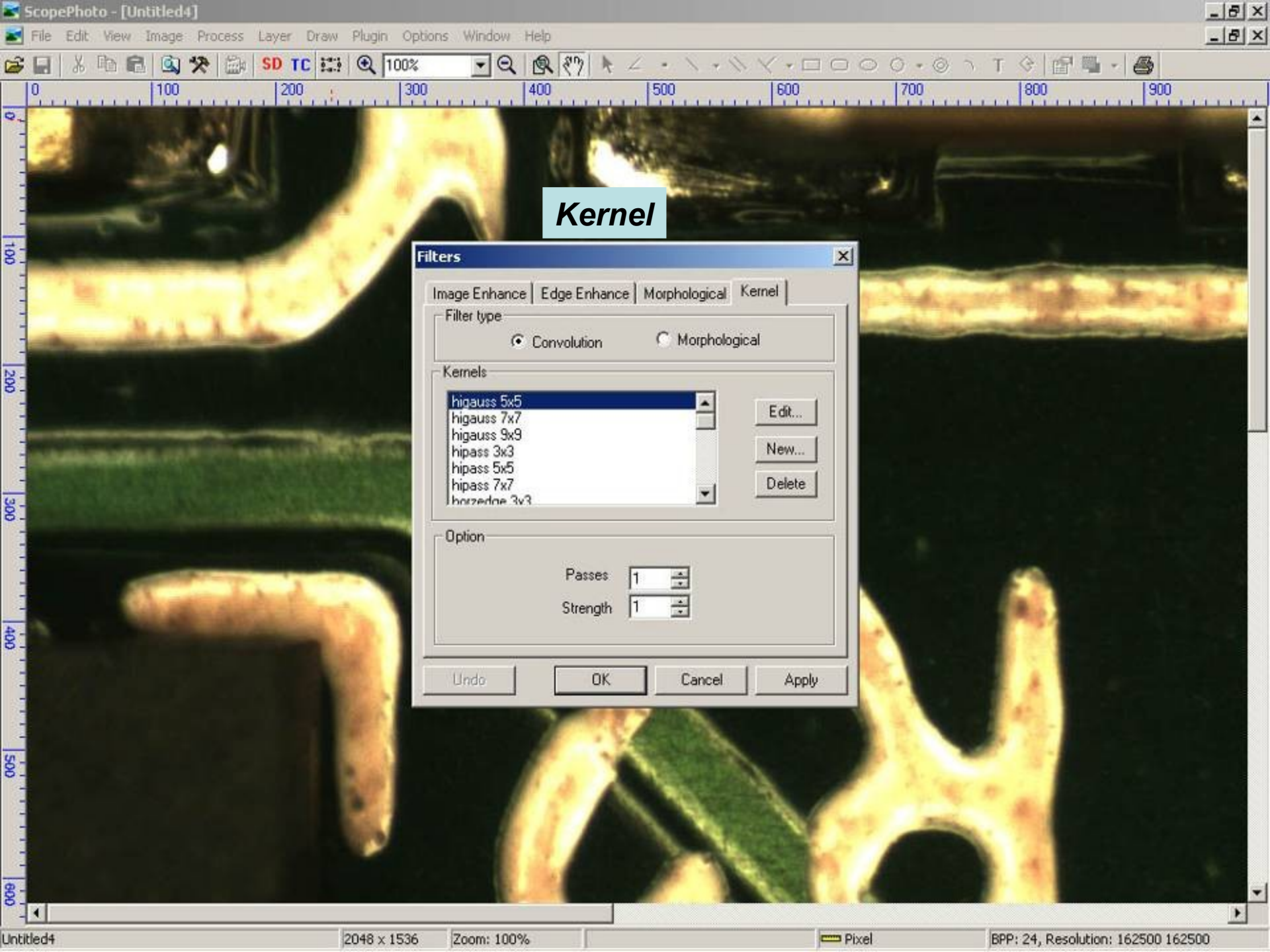

ScopePhoto - [Untitled4]
File Edit View Image Process Layer Draw Plugin Options Window Help
SD TC
100%
Grids shown
Untitled4
2048 x 1536
Zoom: 100%
Pixel
BPP: 24, Resolution: 162500 162500

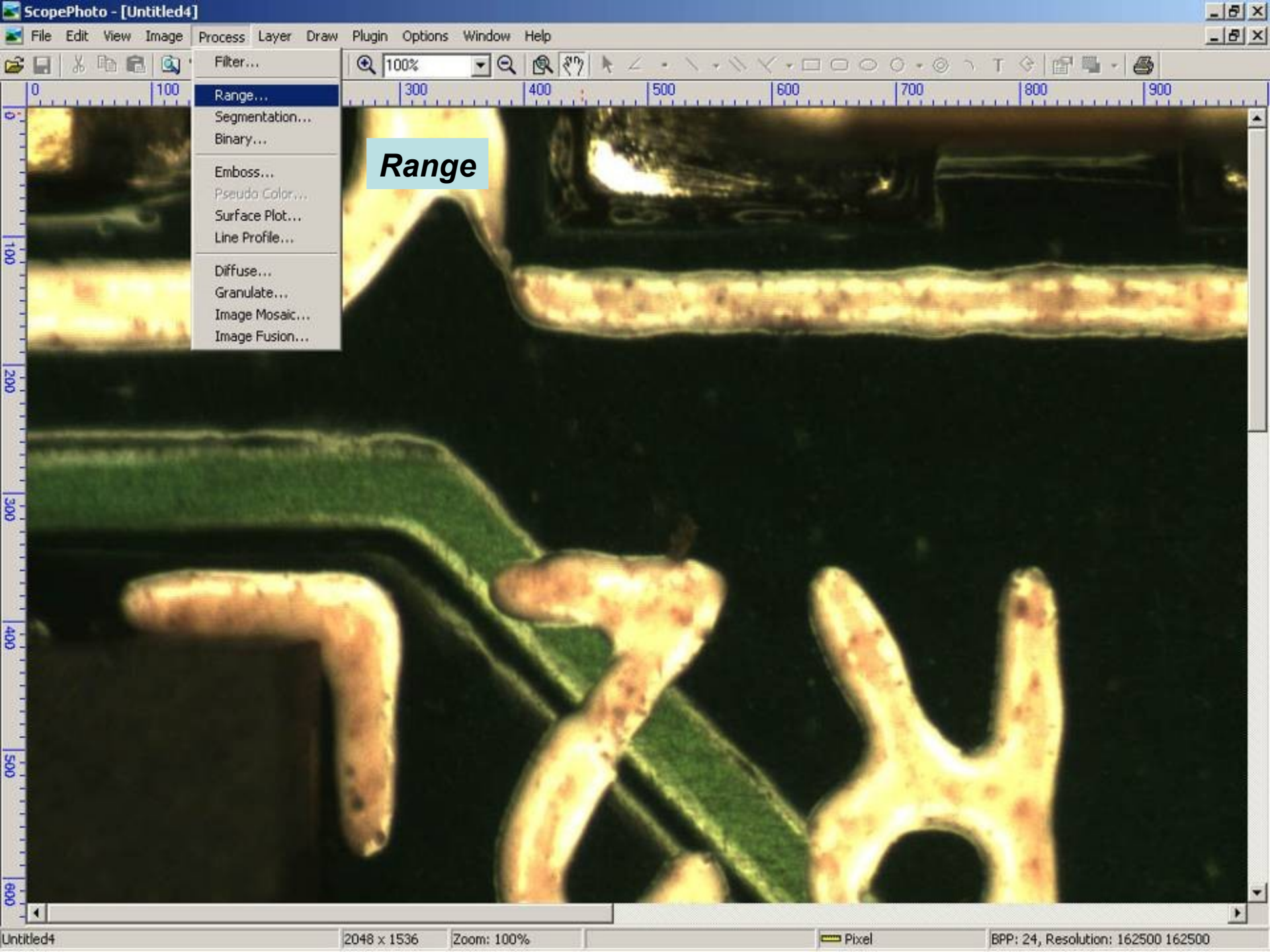

ScopePhoto - [Untitled4]
File Edit View Image Process Layer Draw Plugin Options Window Help
Filter...
Range...
Segmentation...
Binary...
Emboss...
Pseudo Color...
Surface Plot...
Line Profile...
Diffuse...
Granulate...
Image Mosaic...
Image Fusion...
100%
Filter operations
Untitled4
2048 x 1536
Zoom: 100%
Pixel
BPP: 24, Resolution: 162500 162500

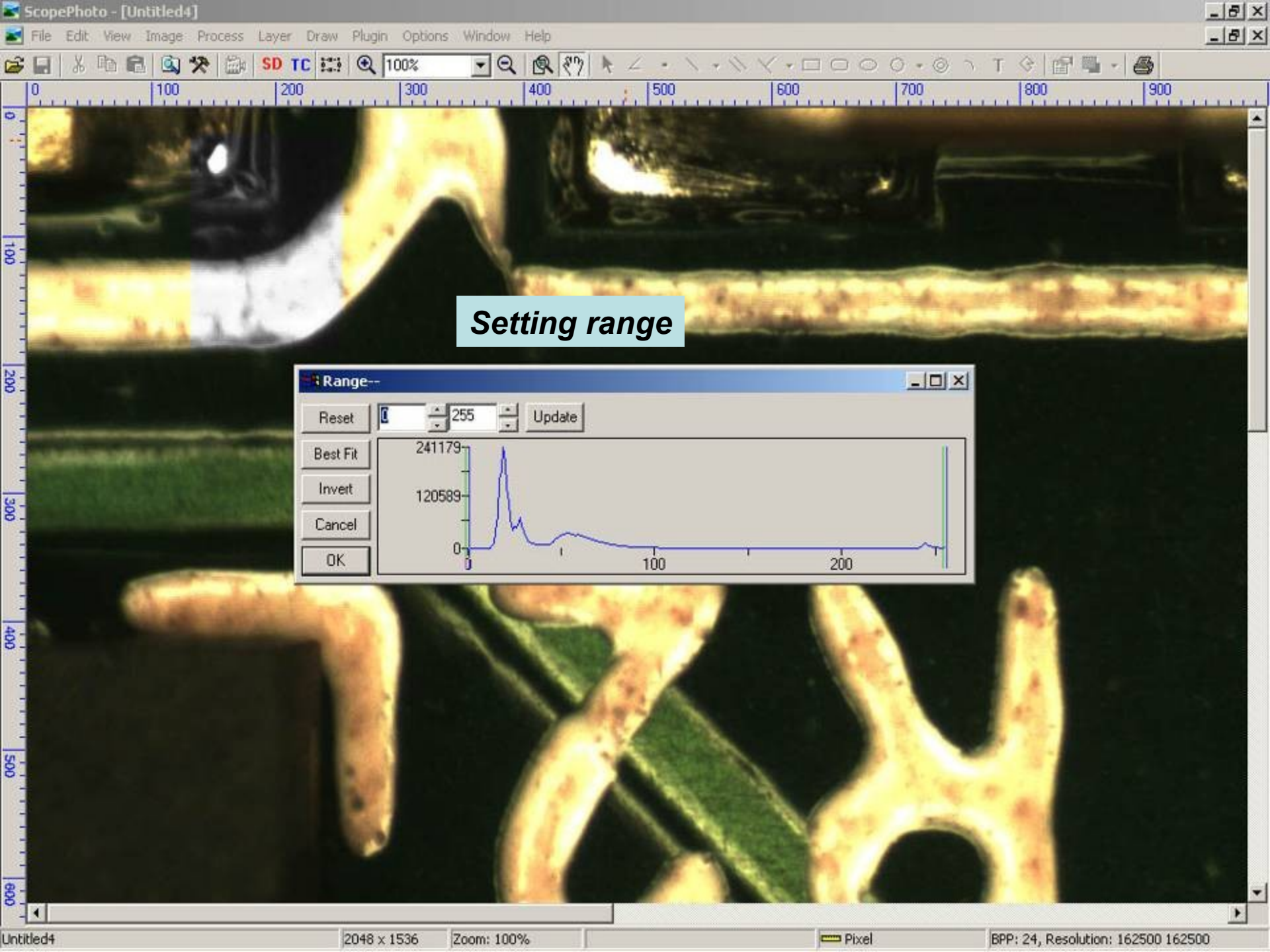

ScopePhoto - [Untitled4]
File Edit View Image Process Layer Draw Plugin Options Window Help
SD TC
100%
Image enhance
Filters
Image Enhance
Edge Enhance
Morphological
Kernel
Filter
Low Pass
High Pass
Gauss
High Gauss
Equalization
Sharpness
Flatten
Median
Rank
Sample
Option
3 x 3
5 x 5
7 x 7
Passes
1
Strength
1
Undo
OK
Cancel
Apply
Untitled4
2048 x 1536
Zoom: 100%
Pixel
BPP: 24, Resolution: 162500 162500

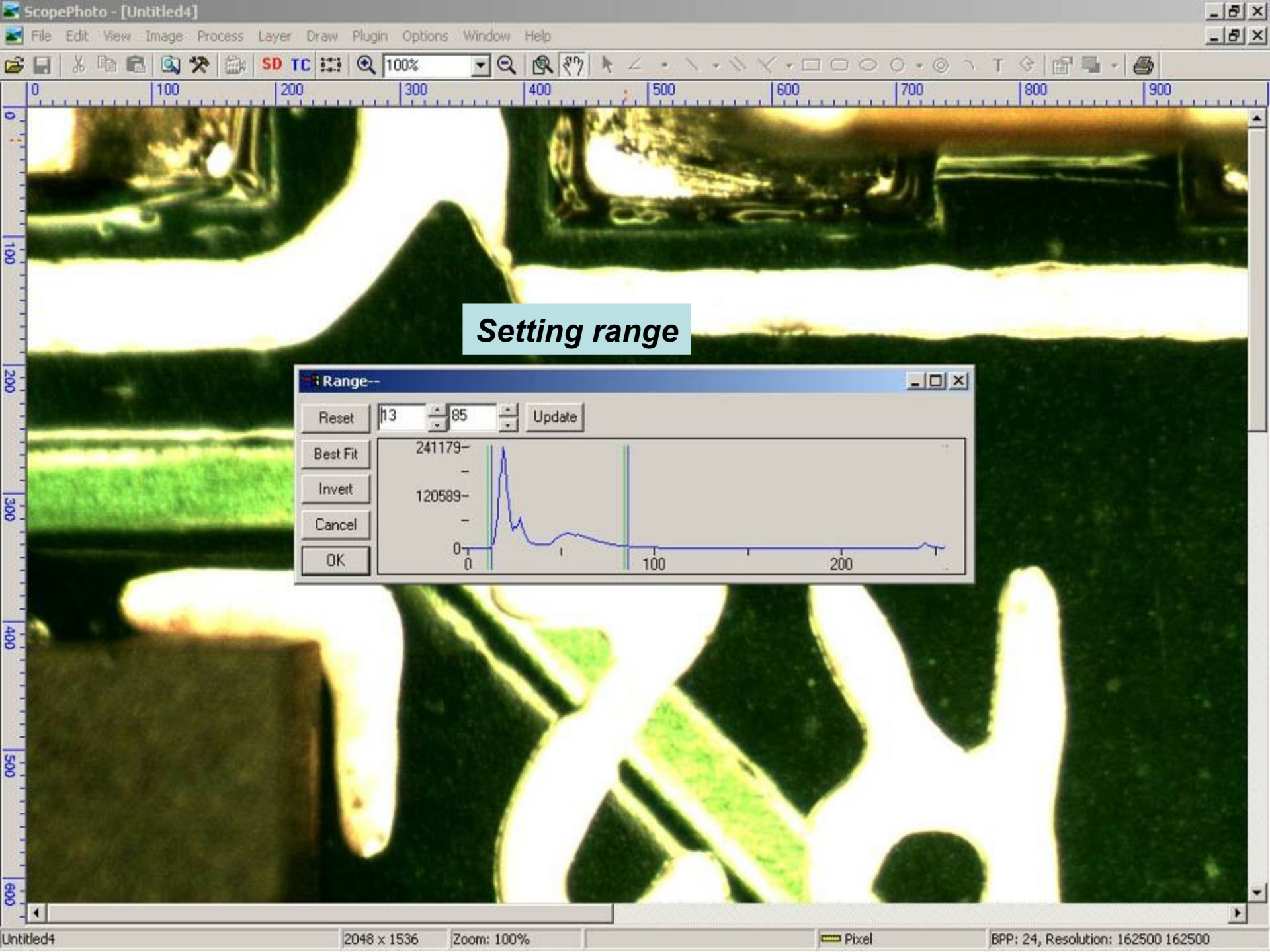

ScopePhoto - [Untitled4]
File Edit View Image Process Layer Draw Plugin Options Window Help
SD TC
100%
Edge enhance
Filters
Image Enhance
Edge Enhance
Morphological
Kernel
Filters
Sobel
Roberts
Sculpt
Laplace
Variance
Horizontal
Vertical
Sample
Options
Undo
OK
Cancel
Apply
Untitled4
2048 x 1536
Zoom: 100%
Pixel
BPP: 24, Resolution: 162500 162500

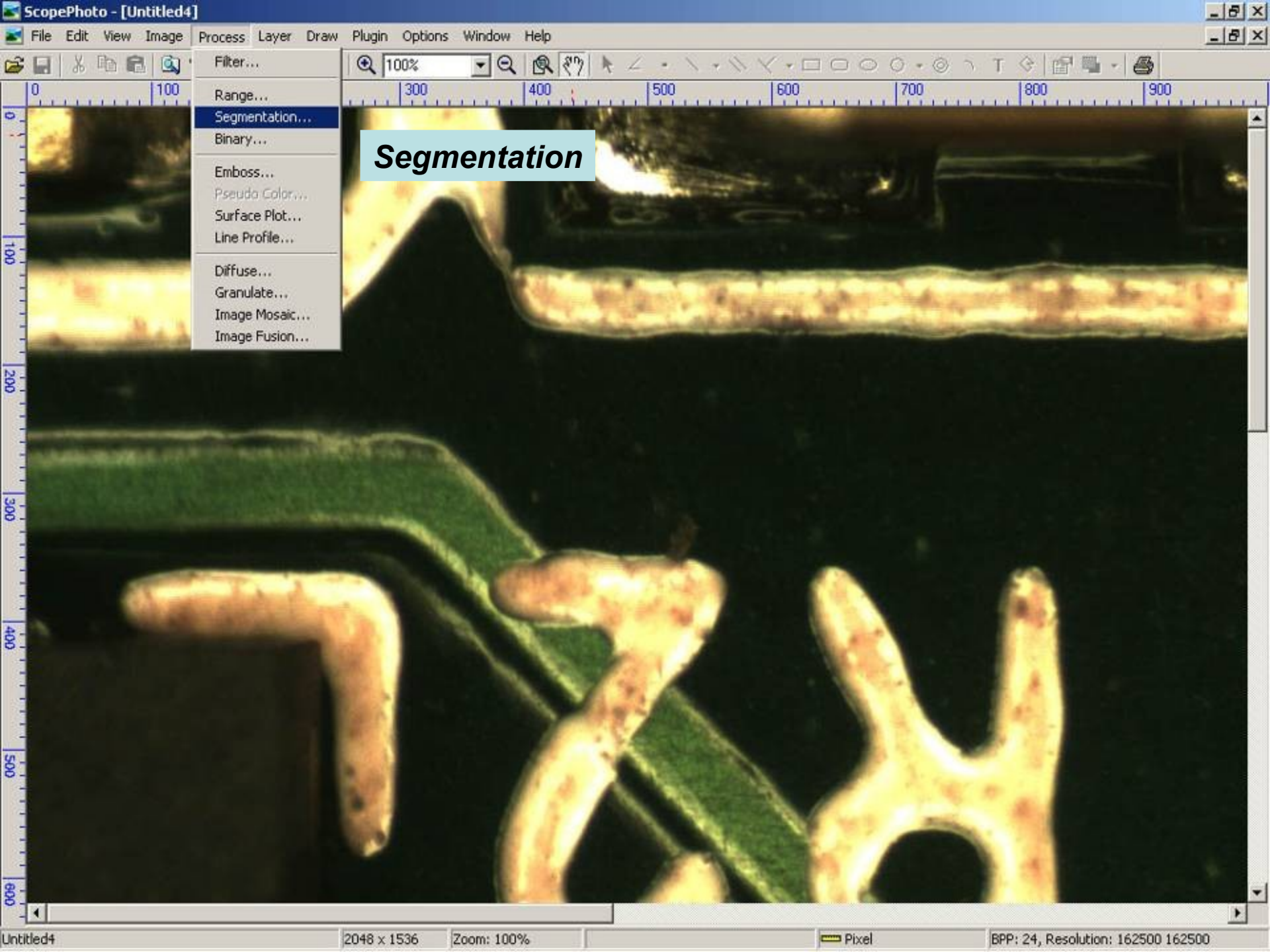

ScopePhoto - [Untitled4]
File Edit View Image Process Layer Draw Plugin Options Window Help
100%
Morphological
Filters
Image Enhance
Edge Enhance
Morphological
Kernel
Filters
Erode
Dilate
Open
Close
Top hat
Well
Gradient
Distance
Thinning
Watershed
Sample
Options
2×2 Square
3×1 Row
1×3 Colomn
3×3 Cross
5×5 Circle
7×7 Circle
11×11 Circle
Passes
1
Undo
OK
Cancel
Apply
Untitled4
2048 x 1536
Zoom: 100%
Pixel
BPP: 24, Resolution: 162500 162500

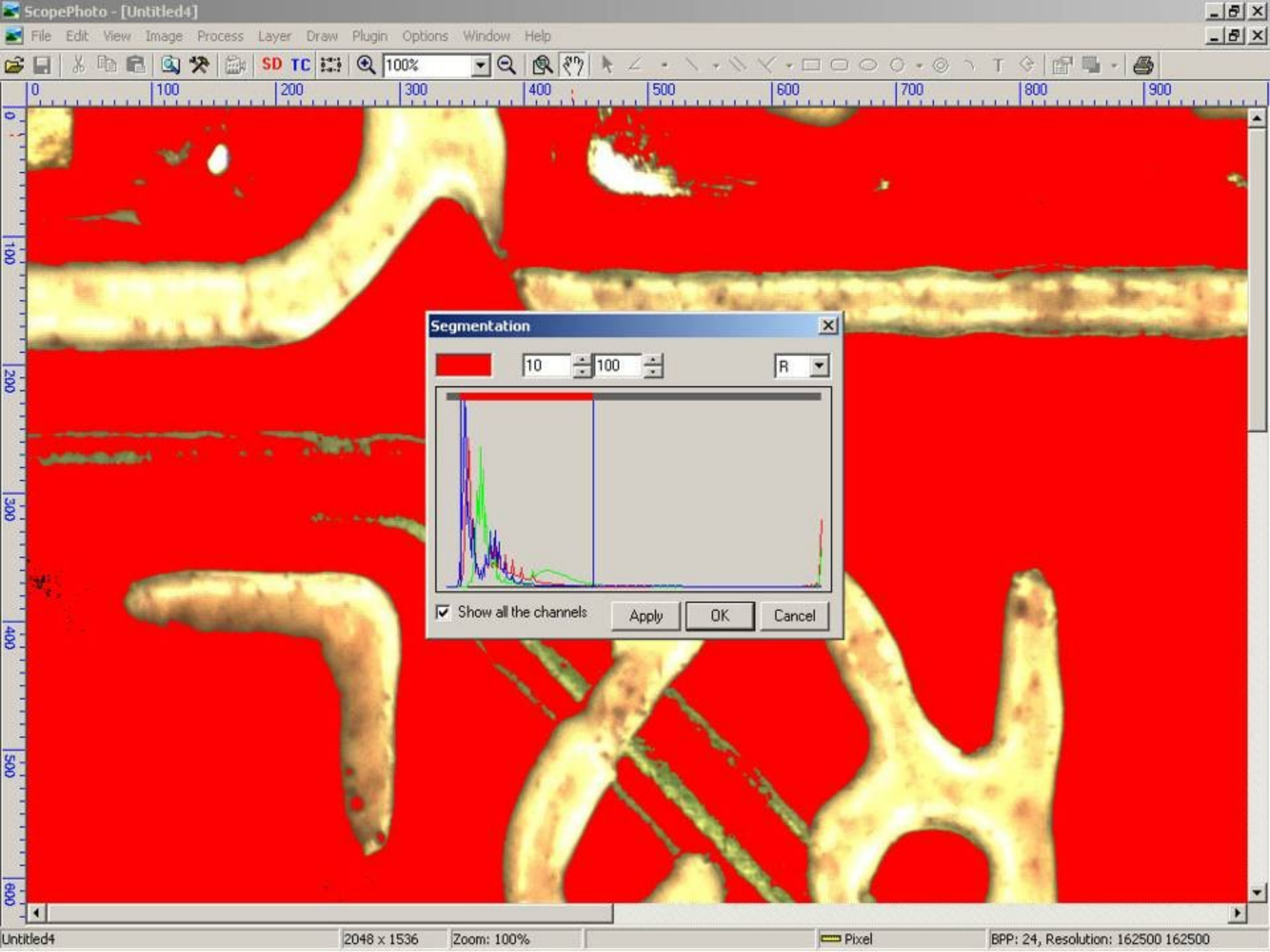

ScopePhoto - [Untitled4]
File Edit View Image Process Layer Draw Plugin Options Window Help
SD TC
100%
Kernel
Filters
Image Enhance
Edge Enhance
Morphological
Kernel
Filter type
Convolution
Morphological
Kernels
higauss 5x5
higauss 7x7
higauss 9x9
hipass 3x3
hipass 5x5
hipass 7x7
Edit...
New...
Delete
Option
Passes
1
Strength
1
Undo
OK
Cancel
Apply
Untitled4
2048 x 1536
Zoom: 100%
Pixel
BPP: 24, Resolution: 162500 162500

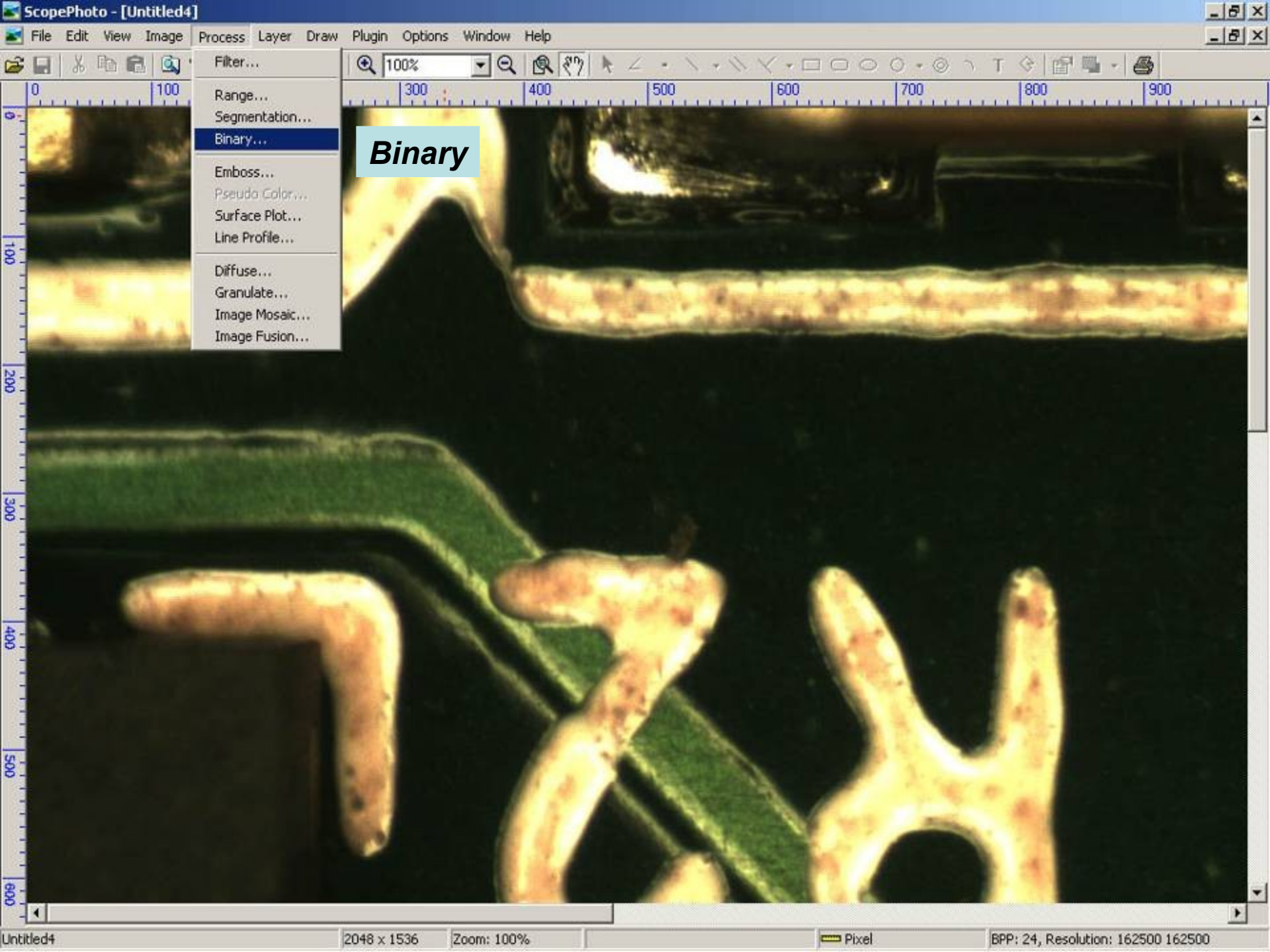

ScopePhoto - [Untitled4]
File Edit View Image Process Layer Draw Plugin Options Window Help
Filter...
Range...
Segmentation...
Binary...
Emboss...
Pseudo Color...
Surface Plot...
Line Profile...
Diffuse...
Granulate...
Image Mosaic...
Image Fusion...
100%
Range
Untitled4
2048 x 1536
Zoom: 100%
Pixel
BPP: 24, Resolution: 162500 162500

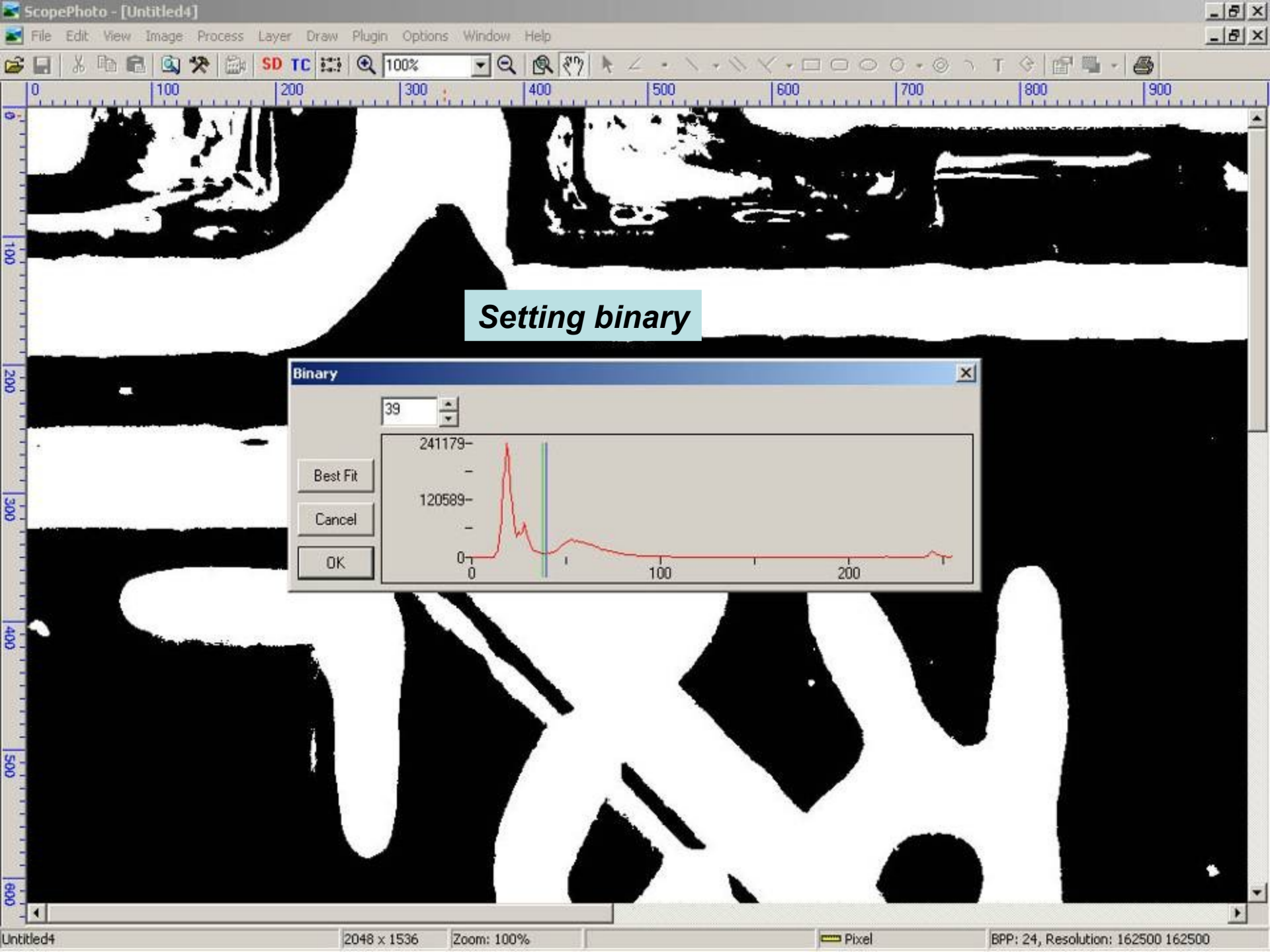

ScopePhoto - [Untitled4]
File Edit View Image Process Layer Draw Plugin Options Window Help
SD TC
100%
Setting range
Range--
Reset
0
255
Update
Best Fit
Invert
Cancel
OK
241179
120589
0
0
100
200
Untitled4
2048 x 1536
Zoom: 100%
Pixel
BPP: 24, Resolution: 162500 162500

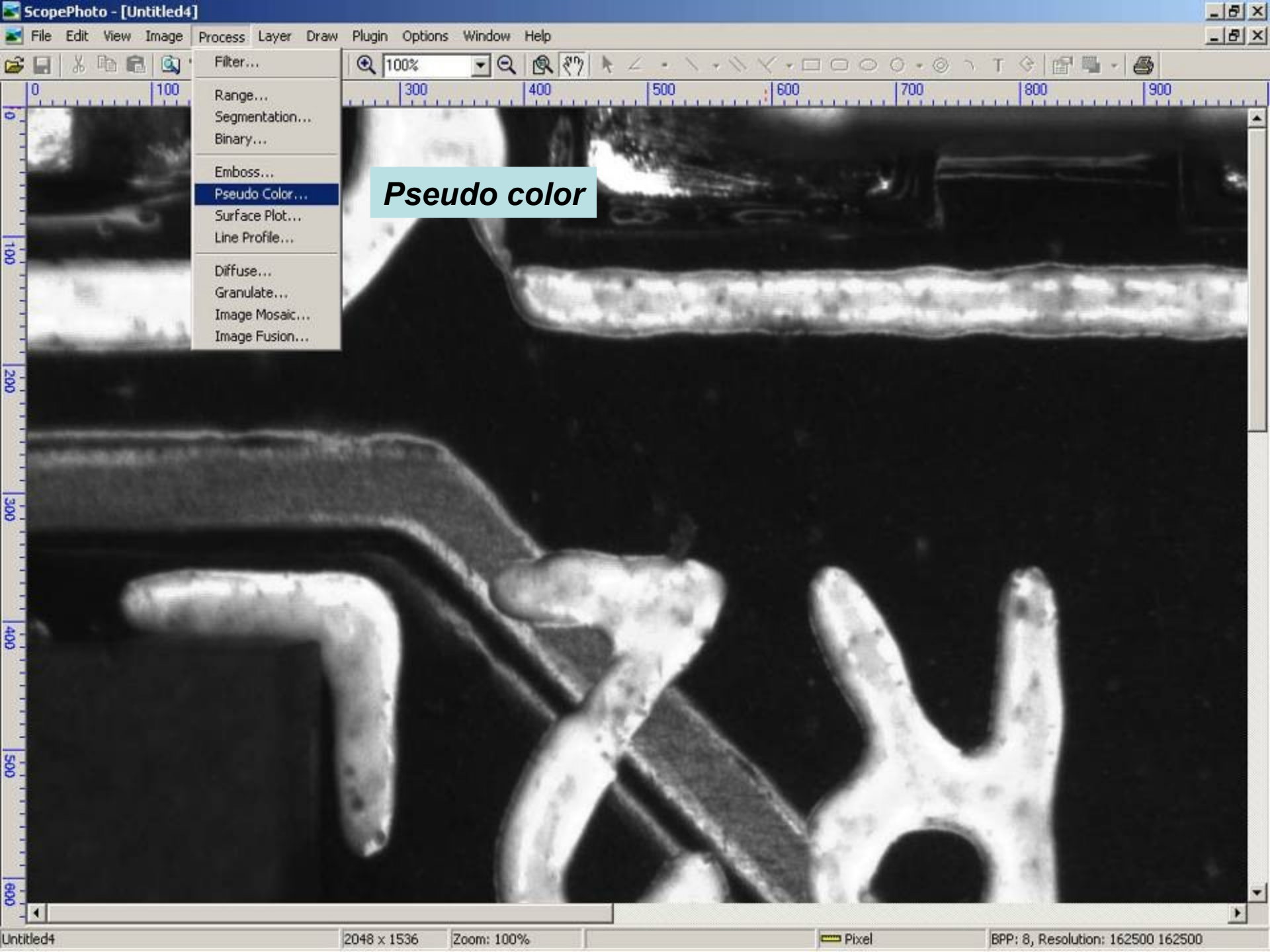

ScopePhoto - [Untitled4]
File Edit View Image Process Layer Draw Plugin Options Window Help
SD TC
100%
Setting range
Range--
Reset
13
85
Update
Best Fit
Invert
Cancel
OK
241179
120589
0
0
100
200
Untitled4
2048 x 1536
Zoom: 100%
Pixel
BPP: 24, Resolution: 162500 162500

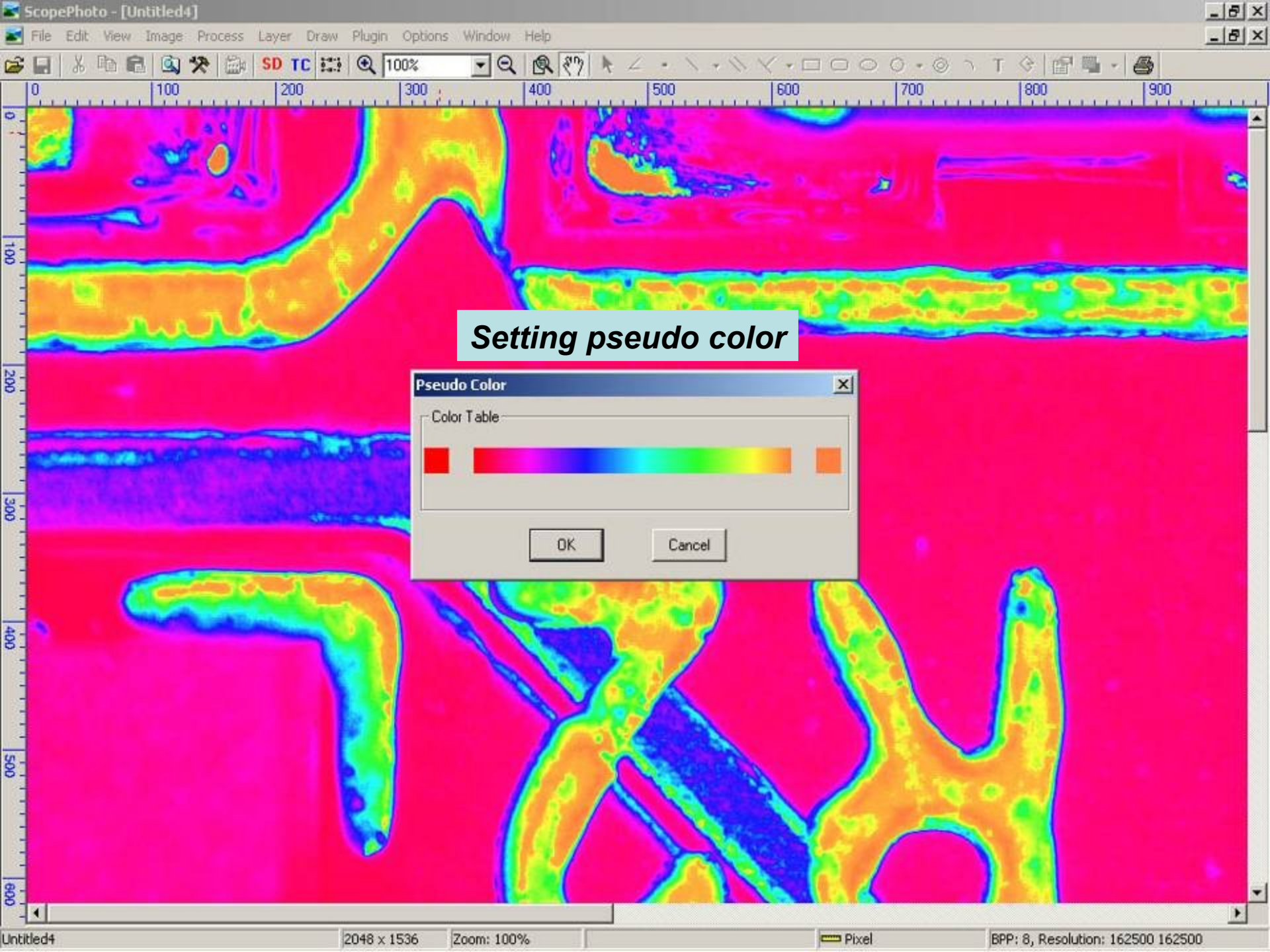

ScopePhoto - [Untitled4]
File Edit View Image Process Layer Draw Plugin Options Window Help
Filter...
Range...
Segmentation...
Binary...
Emboss...
Pseudo Color...
Surface Plot...
Line Profile...
Diffuse...
Granulate...
Image Mosaic...
Image Fusion...
100%
Segmentation
Untitled4
2048 x 1536
Zoom: 100%
Pixel
BPP: 24, Resolution: 162500 162500

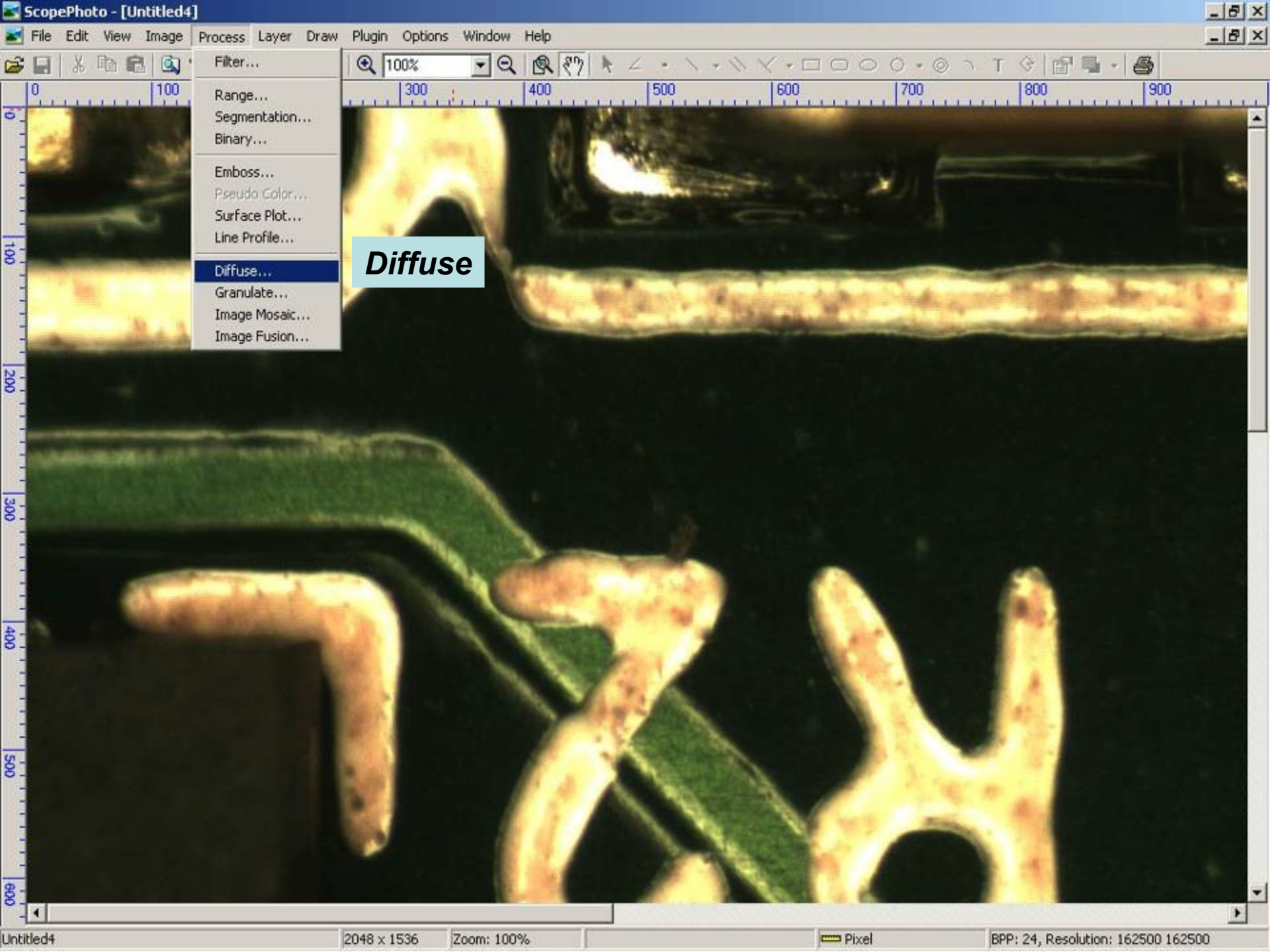

ScopePhoto - [Untitled4]
File Edit View Image Process Layer Draw Plugin Options Window Help
SD TC
100%
Segmentation
10
100
R
Show all the channels
Apply
OK
Cancel
Untitled4
2048 x 1536
Zoom: 100%
Pixel
BPP: 24, Resolution: 162500 162500

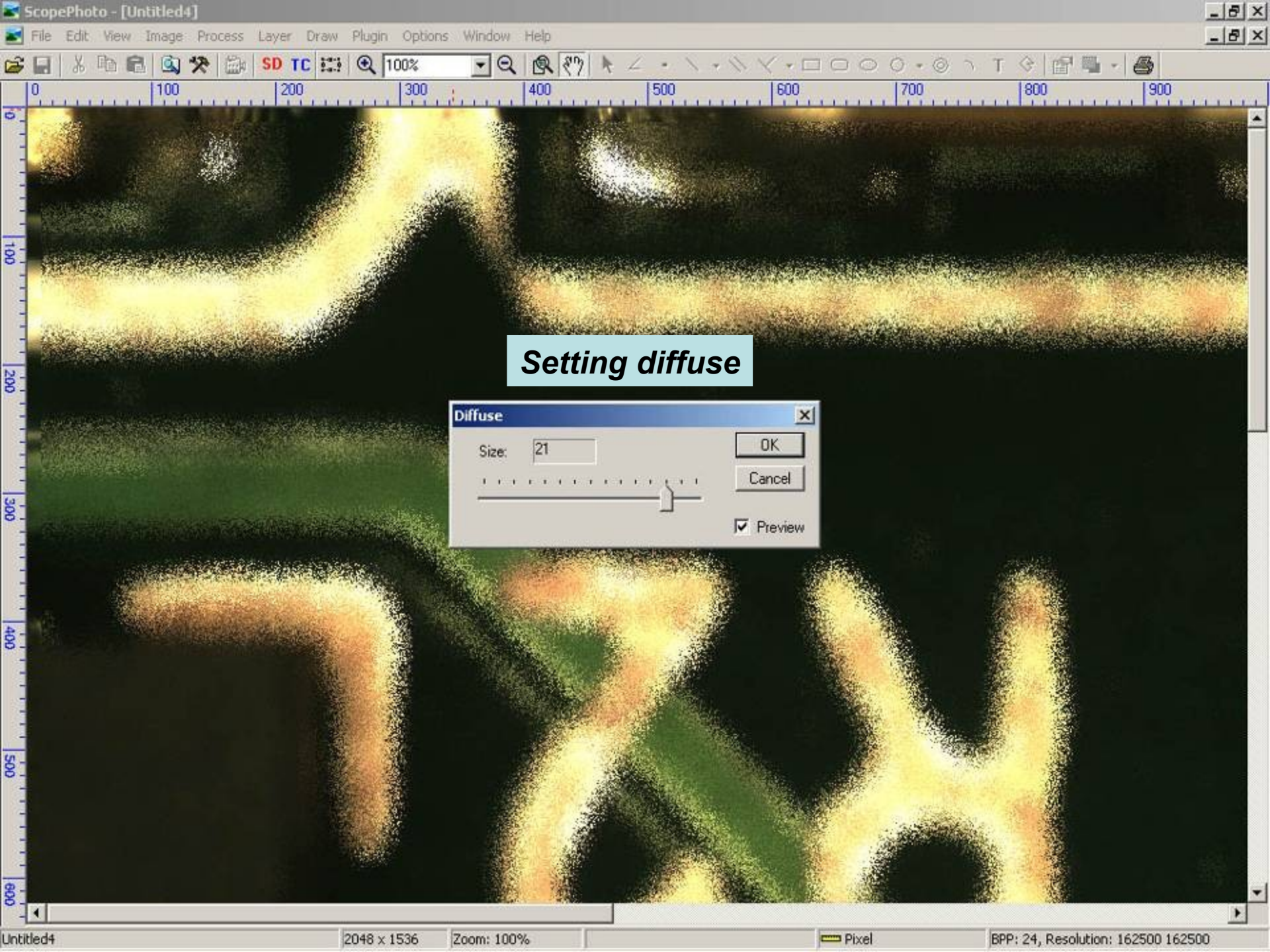

ScopePhoto - [Untitled4]
File Edit View Image Process Layer Draw Plugin Options Window Help
Filter...
Range...
Segmentation...
Binary...
Emboss...
Pseudo Color...
Surface Plot...
Line Profile...
Diffuse...
Granulate...
Image Mosaic...
Image Fusion...
100%
Binary
Untitled4
2048 x 1536
Zoom: 100%
Pixel
BPP: 24, Resolution: 162500 162500

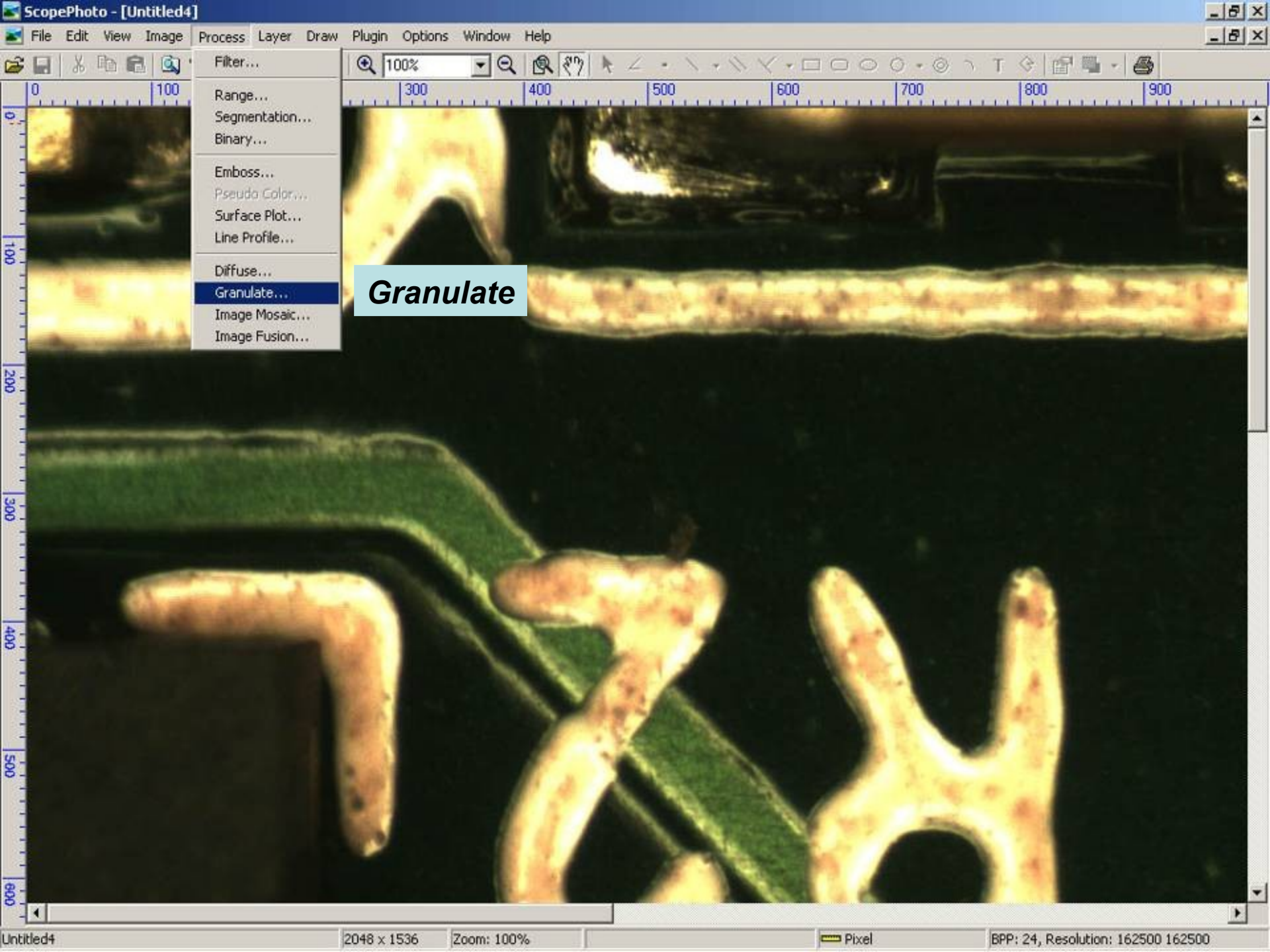

ScopePhoto - [Untitled4]
File Edit View Image Process Layer Draw Plugin Options Window Help
SD TC
100%
Setting binary
Binary
39
241179
120589
0
Best Fit
Cancel
OK
0
100
200
Untitled4
2048 x 1536
Zoom: 100%
Pixel
BPP: 24, Resolution: 162500 162500


ScopePhoto - [Untitled4]
File Edit View Image Process Layer Draw Plugin Options Window Help
Filter...
Range...
Segmentation...
Binary...
Emboss...
Pseudo Color...
Surface Plot...
Line Profile...
Diffuse...
Granulate...
Image Mosaic...
Image Fusion...
100%
Pseudo color
Untitled4
2048 x 1536
Zoom: 100%
Pixel
BPP: 8, Resolution: 162500 162500


ScopePhoto - [Untitled4]
File Edit View Image Process Layer Draw Plugin Options Window Help
SD TC
100%
Setting pseudo color
Pseudo Color
Color Table
OK
Cancel
Untitled4
2048 x 1536
Zoom: 100%
Pixel
BPP: 8, Resolution: 162500 162500


ScopePhoto - [Untitled4]
File Edit View Image Process Layer Draw Plugin Options Window Help
Filter...
Range...
Segmentation...
Binary...
Emboss...
Pseudo Color...
Surface Plot...
Line Profile...
Diffuse...
Granulate...
Image Mosaic...
Image Fusion...
100%
Diffuse
Untitled4
2048 x 1536
Zoom: 100%
Pixel
BPP: 24, Resolution: 162500 162500


ScopePhoto - [Untitled4]
File Edit View Image Process Layer Draw Plugin Options Window Help
100%
Setting diffuse
Diffuse
Size: 21
OK
Cancel
Preview
Untitled4
2048 x 1536
Zoom: 100%
Pixel
BPP: 24, Resolution: 162500 162500


ScopePhoto - [Untitled4]
File Edit View Image Process Layer Draw Plugin Options Window Help
Filter...
Range...
Segmentation...
Binary...
Emboss...
Pseudo Color...
Surface Plot...
Line Profile...
Diffuse...
Granulate...
Image Mosaic...
Image Fusion...
100%
Granulate
Untitled4
2048 x 1536
Zoom: 100%
Pixel
BPP: 24, Resolution: 162500 162500

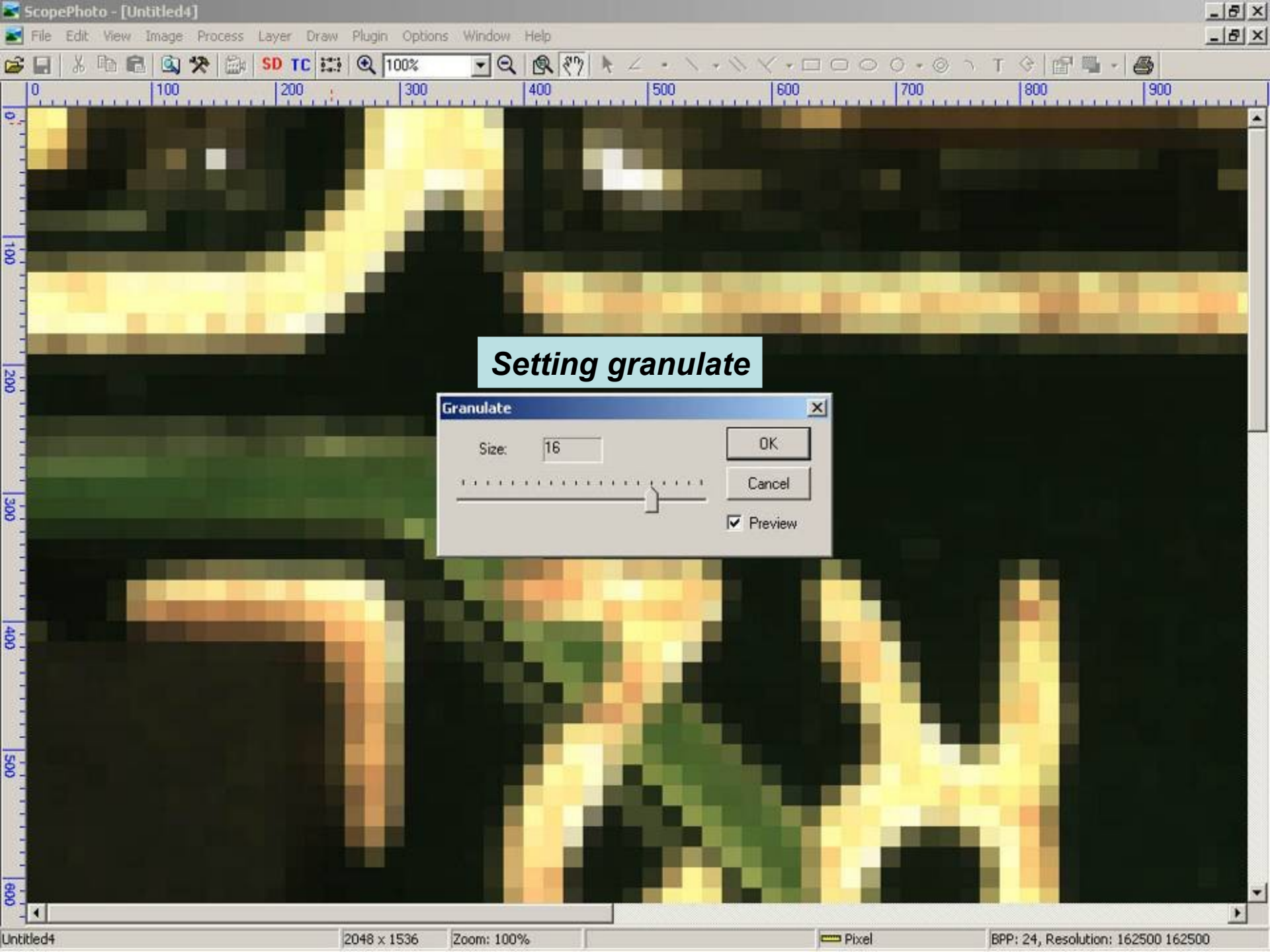
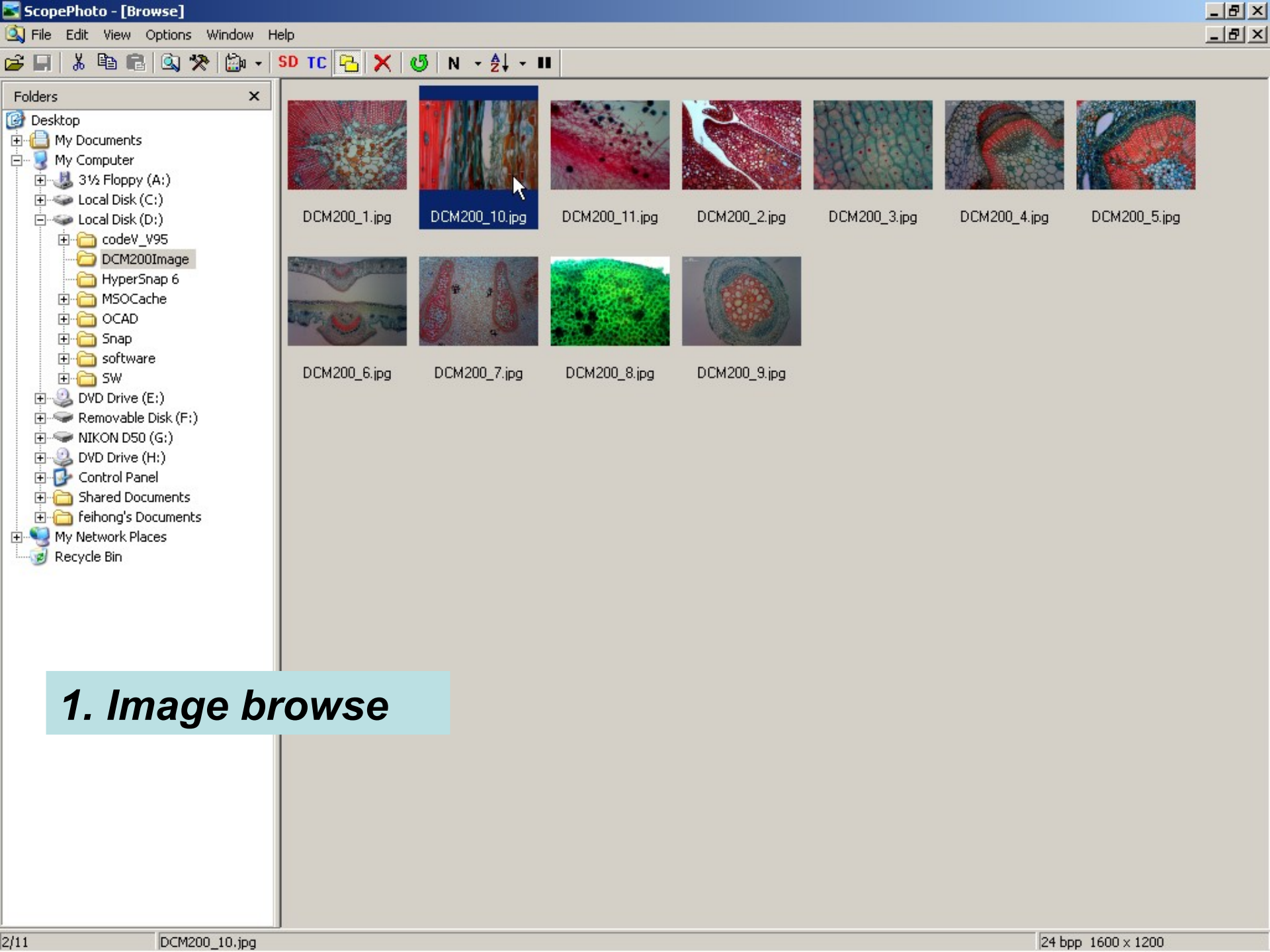
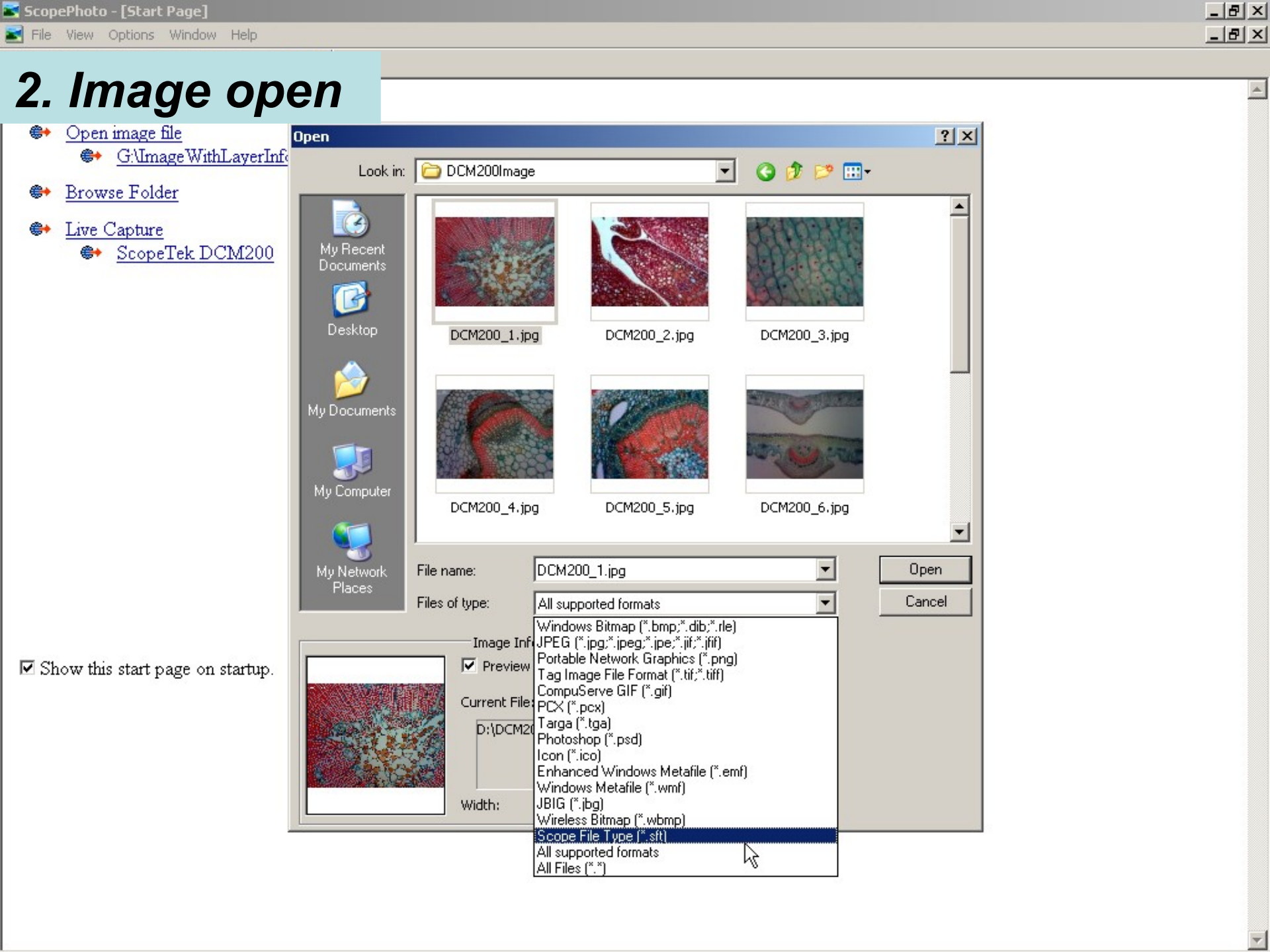
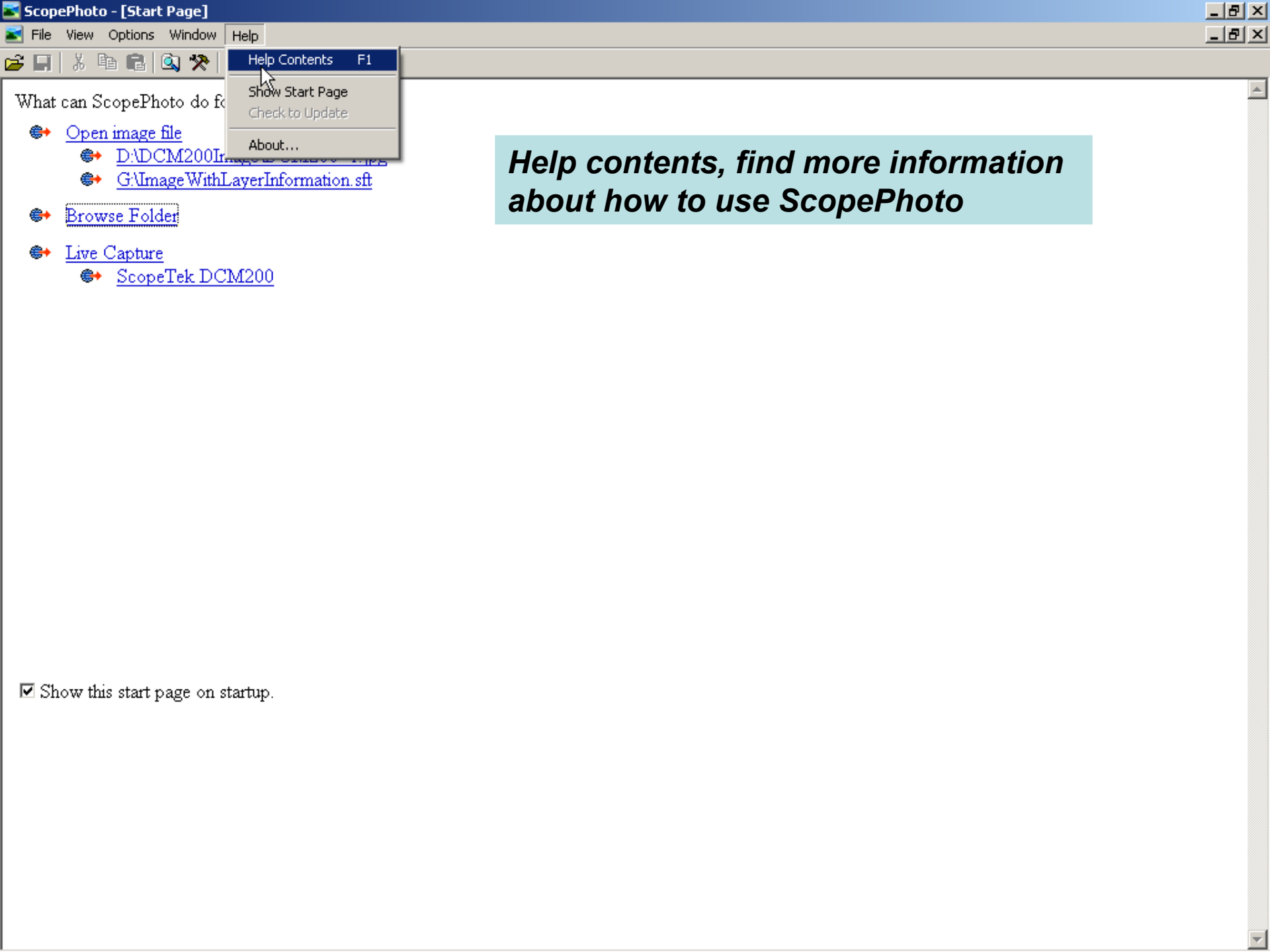

ScopePhoto - [Untitled4]
File Edit View Image Process Layer Draw Plugin Options Window Help
100%
Setting granulate
Granulate
Size: 16
OK
Cancel
Preview
Untitled4
2048 x 1536
Zoom: 100%
Pixel
BPP: 24, Resolution: 162500 162500

Image browse


ScopePhoto - [Browse]
File Edit View Options Window Help
SD TC
Folders
Desktop
My Documents
My Computer
3½ Floppy (A:)
Local Disk (C:)
Local Disk (D:)
codeV_V95
DCM200Image
HyperSnap 6
MSOCache
OCAD
Snap
software
SW
DVD Drive (E:)
Removable Disk (F:)
NIKON D50 (G:)
DVD Drive (H:)
Control Panel
Shared Documents
feihong's Documents
My Network Places
Recycle Bin
DCM200_1.jpg
DCM200_10.jpg
DCM200_11.jpg
DCM200_2.jpg
DCM200_3.jpg
DCM200_4.jpg
DCM200_5.jpg
DCM200_6.jpg
DCM200_7.jpg
DCM200_8.jpg
DCM200_9.jpg
1. Image browse
2/11
DCM200_10.jpg
24 bpp 1600 x 1200

2. Image open


ScopePhoto - [Start Page]
File View Options Window Help
Open image file
G:\ImageWithLayerInfo
Browse Folder
Live Capture
ScopeTek DCM200
Show this start page on startup.
Open
Look in: DCM200Image
My Recent Documents
Desktop
My Documents
My Computer
My Network Places
DCM200_1.jpg
DCM200_2.jpg
DCM200_3.jpg
DCM200_4.jpg
DCM200_5.jpg
DCM200_6.jpg
File name: DCM200_1.jpg
Files of type: All supported formats
Open
Cancel
Image Inf
Preview
Current File:
D:\DCM2
Width:
Windows Bitmap (*.bmp;*.dib;*.rle)
JPEG (*.jpg;*.jpeg;*.jpe;*.jif;*.jfif)
Portable Network Graphics (*.png)
Tag Image File Format (*.tif;*.tiff)
CompuServe GIF (*.gif)
PCX (*.pcx)
Targa (*.tga)
Photoshop (*.psd)
Icon (*.ico)
Enhanced Windows Metafile (*.emf)
Windows Metafile (*.wmf)
JBIG (*.jbg)
Wireless Bitmap (*.wbmp)
Scope File Type (*.sft)
All supported formats
All Files (*.*)


ScopePhoto - [Start Page]
File View Options Window Help
Help Contents F1
Show Start Page
Check to Update
About...
What can ScopePhoto do fo
Open image file
G:\ImageWithLayerInformation.sft
Browse Folder
Live Capture
ScopeTek DCM200
Show this start page on startup.
Help contents, find more information about how to use ScopePhoto

Quick Index

This is a quick index of ScopePhoto application . This index is designed for those who wish to master the ScopePhoto operations in a short time.

How to display the video from the video devices?	1.To get the video from Twain Acquire (its shortcuts are SD and TC on Image Window Toolbar). 2.To use DirectShow Capture Technique. Its shortcut is . 3. File->Import Image->DirectShow Capture.... 4.File->Import Image->Twain Acquire....
How to define the Software Power ?	1.Display the video using DirectShow Capture Technique first. 2.According to Software Power Setup to define your own Software Power step by step.
How to perform the measurement operation (we use term Draw in the	1.Define your own Software Power according to Software Power Setup, otherwise, the unit will be Pixel only for the captured image. 2.Select the right Software Power from Pixel list on DirectShow Capture Window Toolbar and let this Software Power equal to your real microscope objective lens power you are using to capture the image . 3.Capture an image using button on the DirectShow Capture Window Toolbar. 3.Make a new layer on the Background layer using Draw->New menu or Tool Box Layer Page. The Draw Toolbar and Draw menu will become active.

ScopePhoto - [Start Page]

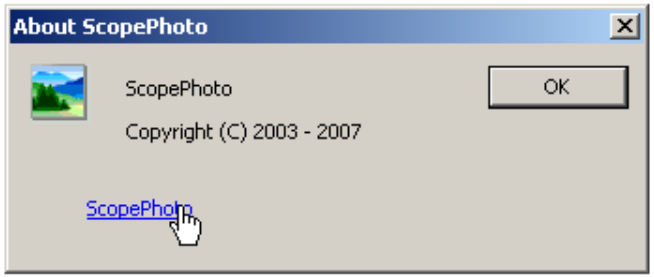
File View Options Window Help

SD TC

What can ScopePhoto do for you:

- Open image file
  - D:\DCM200Image\DCM200_1.jpg
  - G:\ImageWithLayerInformation.sft
- Browse Folder
- Live Capture
  - ScopeTek DCM200

ScopePhoto support address



Show this start page on startup.