

G-SCOPETM User's Guide









Table OFContents

		G-Scope Hardware			
P	Product Description	G-SCOPE Standard Package	Specifications	3	
Α	Auto Focus		End-Caps	4	
N	Mode Switch		LCD Display	5	
U	USB Connector	IRRe	mote Controller	6	
		G-Scope Software			
		- PC Software			
Γ	Download and Installati	on		7	
S	Software Description	C	Camera Setting	8	
I	Image panel Window	Button Fun	ction Overview	9	
I	Image Capture	Ir	nage Matching	10	
Ν	Measurement	Tem	perature Chart	11	
- Android Application					
Ι	Download and Installati	on	How to use	12	
H	How to use			13	
	Optio	n Items : End-Caps & Fixtu	ıre		
Е	End-Cap		Fixture	14	

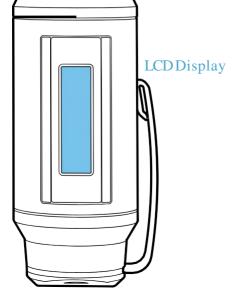
Warrantee

Product Description

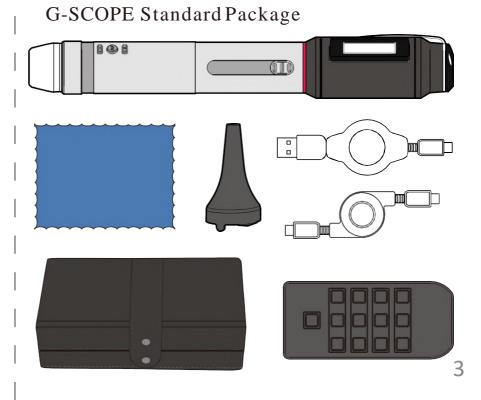
End-Cap Manual Focus (-) Auto Focus Man ual Focus (+) Mode Switch

Specifications

Model	SMART G-Scope G1 ~ G7		
Magnify	10 ~ 250X		
Sensor	3.5M Pixel CMOS		
Auto Focus	Fast Auto Focus using Liquid Lens		
Working Distance	Contact ~ Infinity by Mode Change		
OLED	Display Magnify Mode & Temp.		
Lighting	White LED with On/Off Control		
Movie Recording	30fps, AVI(1920x1080, 1280x720, 720x480, 640x480)		
Image Capture	JPG(1920x1080, 1280x720, 720x480, 640x480)		
Length Calculation	Yes		
	3Pi Corner End-Cap		
	Ear End-Cap		
	Iris(Eye) End-Cap		
Attachable End Cap	Dental End-Cap		
	Infrared Thermometer		
	Capillary End-Cap		
Remote Control	IR Remocon		
Exposure	Auto Exposure		
Color Control	Auto White Balance		
Ruler Display	Atuomatic 4 Axis Ruler		
Interface	USB 2.0 High Speed		
O/S	Win XP SP3, Win7, Win8, Win10, Android 4.1.2 or more		
Fixture	Optional		



USB Connector





Auto Focus AF: Fast Auto Focus by Liquid Lens technology



(-) Manual Focus: Manual focus control by pushing Near(-) button.

If long press of "-" button, LED ON/OFF will be toggled.



AF button: Fast Auto Focus by pushing "AF" button shortly.

If long press over 1 second, Image capture function will be activated.

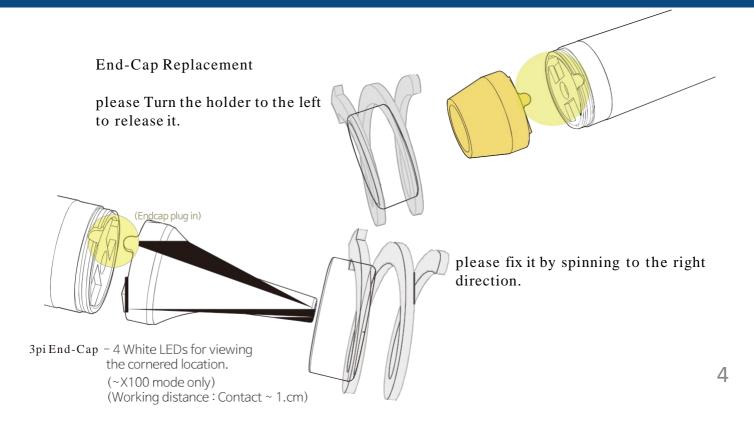


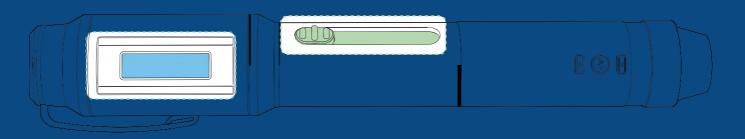
(+) Manual Focus: Manual focus control by pushing Far(+) button.

If long press of "+" button, Digital Zoom (x1.5 \rightarrow x3.0 \rightarrow x1.0) function works



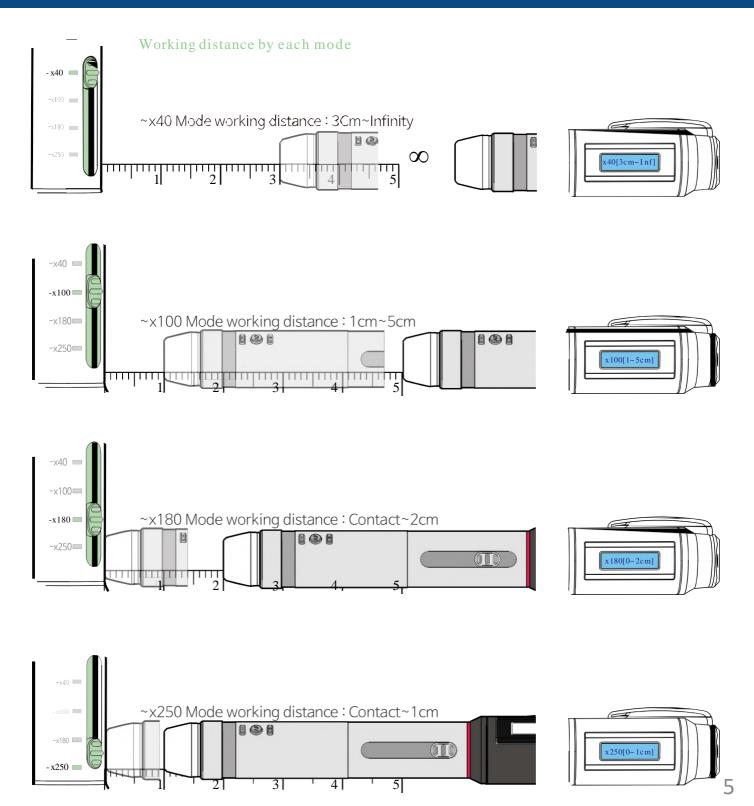
End-Caps Can easily change the End Cap depending on the objects.

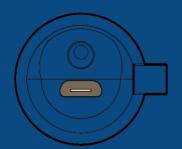




LCD Display Display current Mode & working distance.

Mode Switch G-SCOPE have 4 step modes and each mode has their own max. m agnification and working distance.





USB Connector

- Interface with PC & Android Platform



for connecting Smart G-scope with PC.



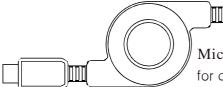


Image Filter

Brightnes

G-SCOPE

Micro USB - Micro USB

for connecting Smart Gscope with Android Platform.

IR Remote Controller Smart G-Scope can be easily controlled by IR Remote controller.

Image Capture

Capture

Image Capture in G-Scope software.

Auto Focus

NEAR

Manual Focus (NEAR direction)

AF

Auto Focus function

FAR

Manual Focus (FAR direction)





Ruler Color Change (Black->White->Green->Yellow->Red->Pink->Blue)



Normal: Ruler On/Off



2 Axis <->4Axis Ruler Change

Zoom/Rotate



Zoom: $1.5x \rightarrow 3x \rightarrow 1x$ Toggle



Original image



180 degree rotation.

Brightness



Less Brightness



Original Image



More Brightness



Download and Installation

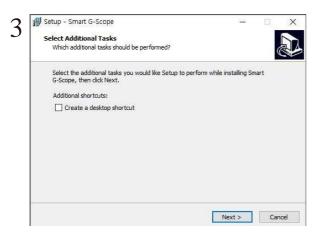
In order to download PC S/W application, Please visit http://www.g-scope.net and click "Technical Service"



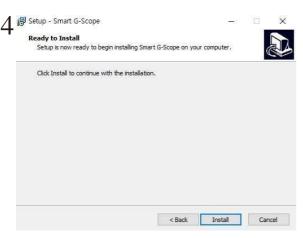
① Execute Setup.exe



2 Select the language and Click "OK"



3 Click "Next" button



(4) Click "Install" button



(5) Installation finished and click "F"

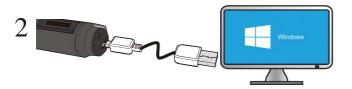




Software Description



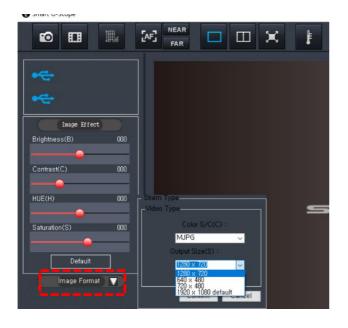
1 execute the program.



② After connecting Smart G-SCOPE with PC



- 3 "Smart G-Scope G *" device name and image information name are displayed in the left device list, and the image of the observation object is immediately displayed.
- (Up to two G-SCOPE can be connected and observed at the same time.)
- 4 You can effectively observe brightness, contrast, hue and saturation in the "Image Effect" list on the left.



⑤ Click "Image Format" to adjust image size

1920 x 1080

 1280×720

720 x 480

640 x 480



Image panel Window





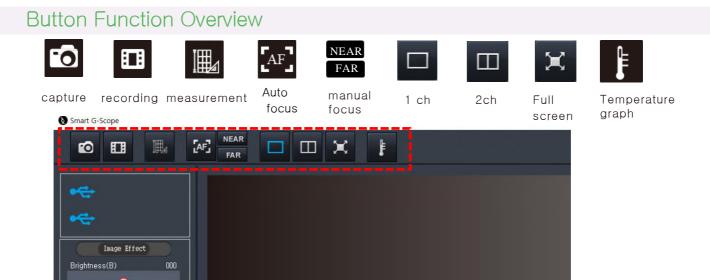


Push Up Increase the size in the upward direction.



Increase the size in the downward direction.

.....



Push Down



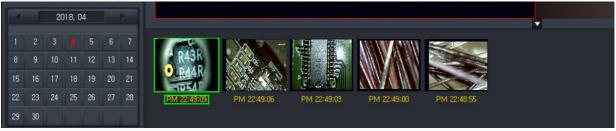
Image Capture

The videos and photos are organized by date and order at the bottom of the screen and can b e found in the media folder.







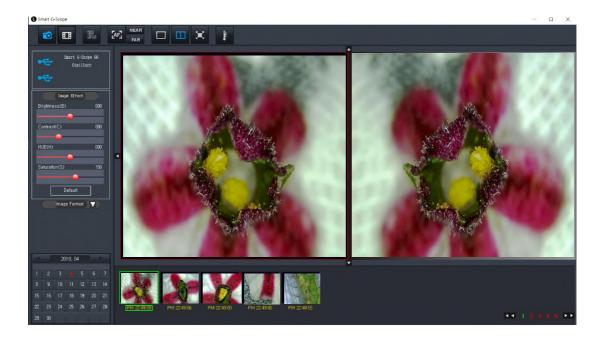


Movie Recording



Image Matching

Bottom capture image double click to place on channel 2, compare with current image

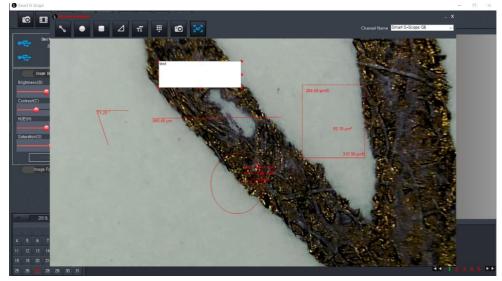




Measurement

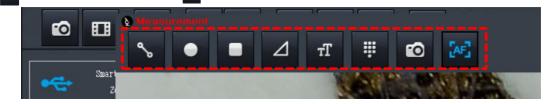


Measurement of Length, Circle, Area and Angle of the target object.



- Linear measurement

 Angle measurement
 - Angle measurement
 Image Capture
- Measure in a circle
 Insert text
 Auto Focus
- Measure with a square
- Select line color



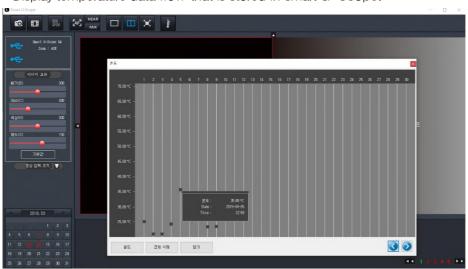
Temperature Chart

Display temperature data flow that is stored in smart G-Scope.



Temperature Chart





Use only when the end cap is attached. Press and hold the AF button to save the data. Max. 1K unit data with date and time can be displayed.



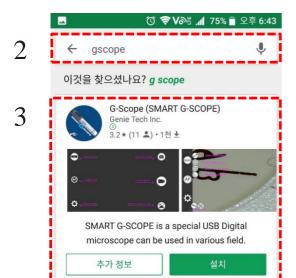
Click the G-SCOPE device AF button to measure the temperature



Download



① Excute "play store" on android platform.



- ② Input 'G-SCOPE' or 'g scope'. in search window
- 3 Select 'G-Scope' app and install it.



How to use



Clicking Continue allows download



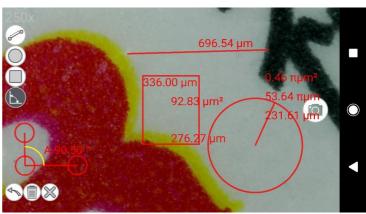
Measurement

Click the icon to measure lines, circles, rectangles, and angles as shown.



Auto Focus

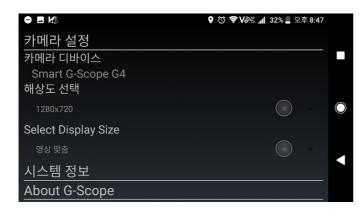
Every time you click an icon, focus is automatically achieved.







Camera Setting



- ① Select the device Display the device connected "Smart G-Scope G*"
- ② Support the image formats of Full HD (1920X1080), HD(1280X720), D1(720X480), VGA(640X480).
- ③ Select image display size. Fit the image to LCD resolution or display a real image resolution



Click the icon to save the image.

Image capture



Click the icon to record the video.

Movie recording



Click the icon to view saved images & videos.

View the stored images

End-Cap

Several kinds of end caps are designed for their own special purpose each by each and it can be chan geable by replacing between the cap very easily.





Temp End-Cap



Dental End-Cap







Iris End-Cap

Ear End-Cap

Fixture

It is a stand series of Full aluminum that can be purchased for users who want more comfortable and precise observation.

