

DIGITAL MICROSCOPE

DG-2A

scalar
IMPRESSIVE WORKS

**Now With
Enhanced Features!**

Focus bar indicator
Time/Date stamping
Fixed shutter speed
Color Balance

**Both a
Microscope and
a Digital Camera
in One!**

Use the DG-2A as a standard digital camera without changing this micro-macro lens.



Scalar Corporation microscopes have been used in conjunction with NASA space shuttle missions.

Scalar Announces Innovations for the DG-2A

DG-2A Basic Set

- Camera body (with LCD monitor)
- Lithium-ion rechargeable battery
- Battery charger (also an AC adaptor)
- Video Cable
- CompactFlash™ (16MB)
- PCMCIA adaptor
- C mount adaptor
- Special carrying case

NEW FEATURES

- Time/Date stamping feature
- Focus Bar
- Adjust the default for color balance

ANNOUNCING NEW LENS

0x-200x Super Zoom Lens



The DG-2A has new features to help you achieve the very best image quality

Focus Bar Indicator (at left of LCD) easily allows you to get the correct focus.

Time & Date stamp (at the bottom of LCD) helps you to remember exactly when the picture was taken.

Adjustable white balance setting lets you adjust the Red and Blue color strength for your preference.



The DG-2A has a wide variety of lenses from which you can choose!

Three types of these lenses are highlighted below:

High Resolution Lenses –

These lenses come in the following magnifications: x100, x200, x500, x1000



Bore Lenses –

Our bore lenses are made to get to those difficult to reach places and are equipped with a detachable 90 degree mirror for side viewing.



Micro-macro lenses –

Choose from three different types: x0~x30, x0~x30N (non-reflective), x0~x100. With these lenses, you will have both a digital camera and a microscope with a simple turn of the focusing ring.



The DG-2A sports a C mount adaptor which may connect to an endoscope or microscope

Preserve digital images taken with an endoscope or on a microscope by using the C mount adaptor included in the basic set. Catalogue these images in a database for a report or presentation.



Attach the DG-2A to an endoscope



Microscope attachment option (or telescope for bright night-time objects)

endo scope

micro scope

Scalar's Touch & View technology allows you to image surfaces as never before

Simply touch the surface needing magnification with a DG-2A lens to record clearly defined microscopic images even without a stand (non-contact lenses are also available).



Macro

Macro Image



Microscopic Image



DG-2A being used to analyze the space shuttle's leading edge.

Scalar's advancements combine digital and optical technology in a unit which will let you go virtually anywhere with an array of magnifying options.



CF Memory card links data with your computer

The DG-2A is equipped with a 16MB CF memory card to download data to your computer or printer. The DG-2A can record at least 17 high resolution JPEG images. Larger CF memory cards can be used to store a greater number of images.

16MB
CF Memory
Card

JPEG



At only 400 grams, the compact DG-2A is ready to go to any workplace.

The DG-2A is ideal for traveling to any site you may wish to go. Its lithium-ion battery makes it a cordless digital solution to allow you to take it into the plant or on the field to image anything you please.

400g

Cord
less



One touch of a button delivers high resolution images.

The DG-2A can provide 2.3 megapixel images. With 2x digital zoom feature, a 1000x lens produces 2000x images.



Video output port included

The DG-2A can serve as a video camera as well, delivering 30 frames per second to a large size monitor or projector with a video cable. You may want to record these images as well in a VCR format.

Built In
Light
Source

Monitor
Connection



Attractive case provided

The DG-2A comes equipped with a durable case to protect the main camera and its core accessories. There is also room for several optional lenses that you may choose.



special carrying case

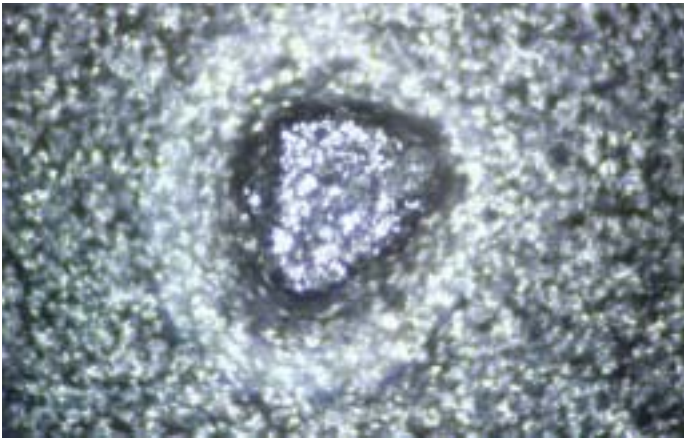
High speed LCD monitor

The DG-2A displays its images on a type-2, high-speed LCD monitor. At 30 frames per second, you can enjoy full motion video right before your eyes. Still images are recorded to a CF memory card or live recording may be made when the unit is attached to a VCR via an optional cable.

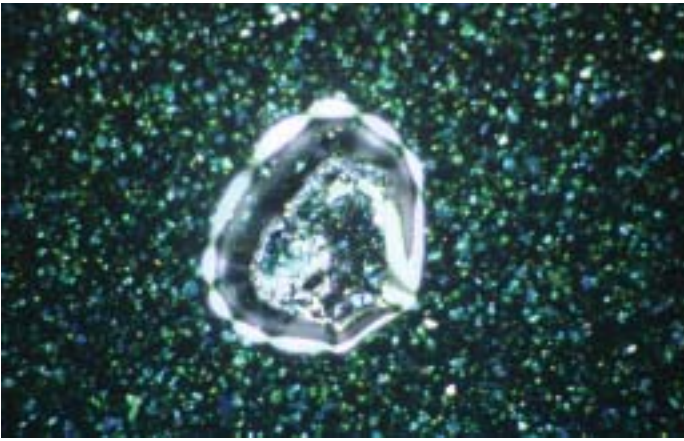
LCD
MONITOR



*Light & Mobile
Touch & View*



automotive paint imperfection (X200)



automotive paint imperfection (X200)



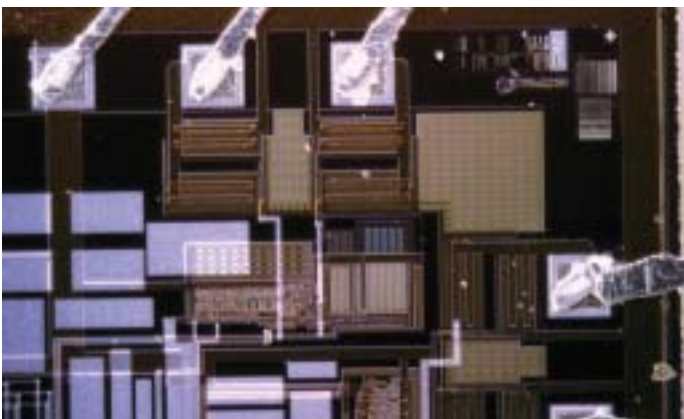
spiderwort pore (X200)



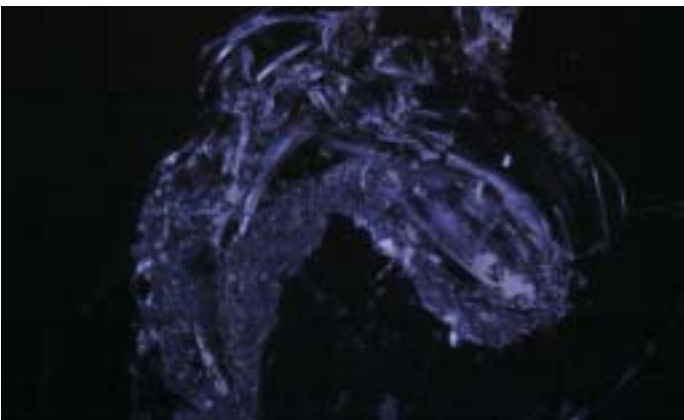
tea stalk tick (X100)



ant head (X200)



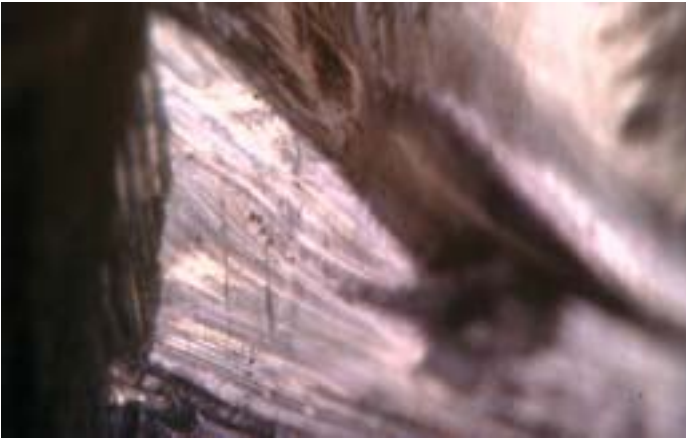
IC (X200)



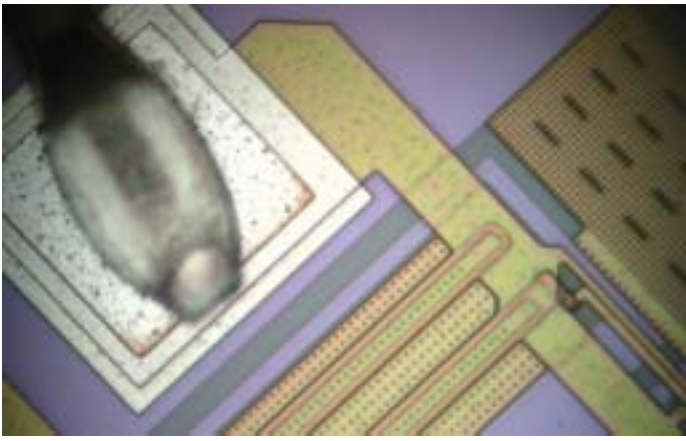
aeronautical windshield inspection (X200)



watch (C mount lens)



QC metal scratch (500x)



IC with coaxial illumination (X1000)



United States \$20 bill (X30)



fibers (X200)



skin with mole (X30)



metal surface (X100)



ballpoint pen tip (X200)



printed circuit board (C mount lens)

The DG-2A full system is versatile enough to meet any of your imaging needs



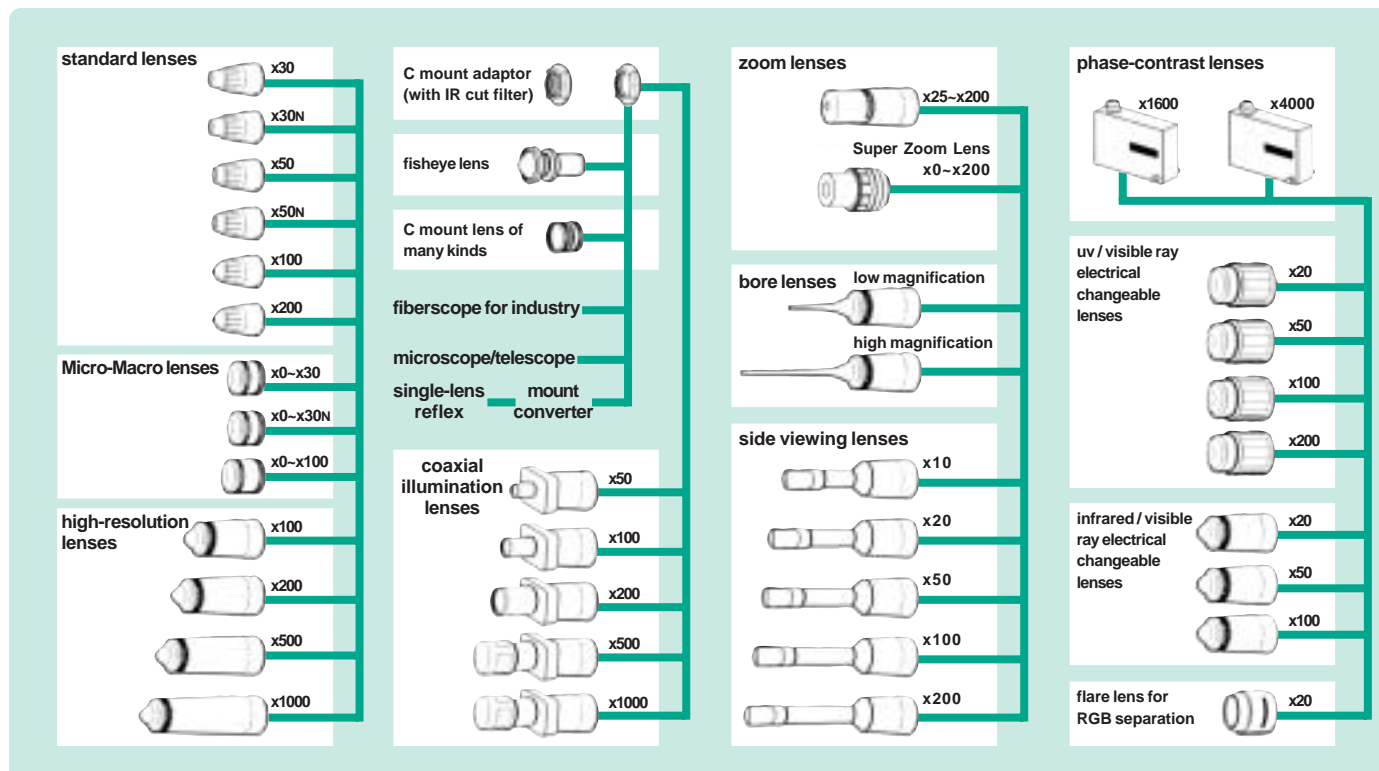
A wide variety of changeable lenses can be used at your work site, in the field, attached to your microscope, or even mounted on your telescope to view bright heavenly objects.

The lenses which you may choose are broad and diverse (reflective, non-reflective, fluorescence, etc.) Depending on the type of light source you prefer, we have standard x30, x50, x100, x200, x500, x1000. Low magnification and high magnification zoom lenses are available.



Choose from a wide variety of built-in light sources: ultraviolet, infrared, and normal visible light.

Sometimes changing the light source can make a world of difference in what you can see. Scalar has provided for each of your imaging challenges with lenses designed to meet your particular need.





System Configuration

1. Groups of lenses

standard lenses	X30	X30N	X50	X50N	X100	X200
micro-macro lenses	X0-X30	X0-X30N	X0-X100			
high resolution lenses	X100	X200	X500	X1000		
C mount adaptor	<ul style="list-style-type: none"> • fisheye lens • various C mount lenses • fiberscope for industry • microscope/telescope adaptor • mount converter SLR Camera's lens 					
coaxial illumination lenses	X50	X100	X200	X500	X1000	
zoom lenses	X25 ~ X200		X0 ~ X200			
bore lenses	(low magnification, high magnification)					
side viewing lenses	X10	X20	X50	X100	X200	
phase-contrast lenses	X1600	X4000				
uv/visible ray electrical changeable lenses	X20	X50	X100	X200		
infrared/visible ray electrical changeable lenses	X20	X50	X100			

flare lens for RGB separation	X20		
side-viewing/magnification electrical changeable lenses	X50	X100	X200
optical/magnification electrical changeable lenses	X50	X100	X200
non-shadow light lenses	X50	X100	X200
lenses for viewing microscope slides			
special order lenses			
optical light stage (transparent and dark field illuminator)			
outside light unit			
ring light unit			
stand adaptor			
up-down stand			
XY stage			
flexible stand			

2. outside lights

3. stands

4. neck strap

5. software

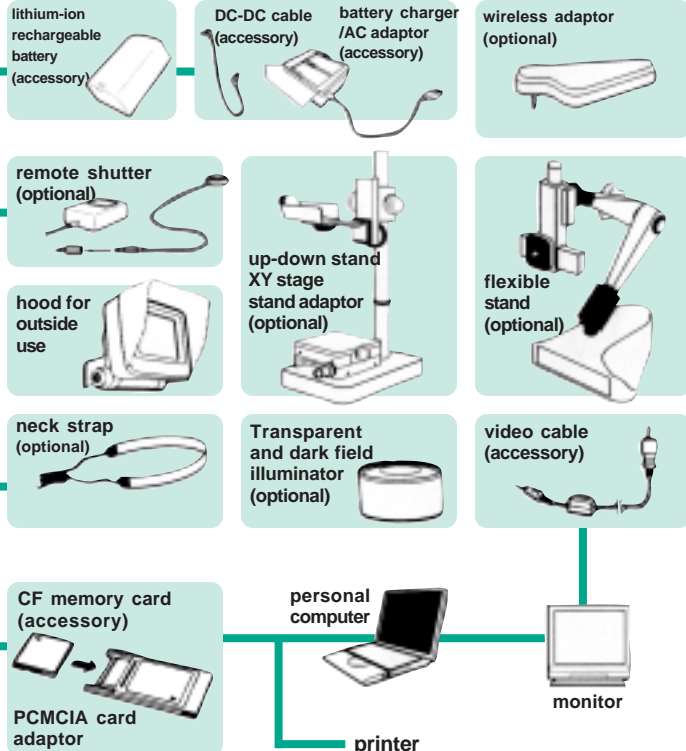
6. other

image analysis software
the c-mount adaptor provides use of 3rd party lenses and accessories.

- side lighting and down lighting electrical changeable lenses
 - x50
 - x100
 - x200
- transparent and down lighting electrical changeable lenses
 - x50
 - x100
 - x200
- non-shadow light lenses
 - x50
 - x100
 - x200
- lens for microscope slides
- special order lenses



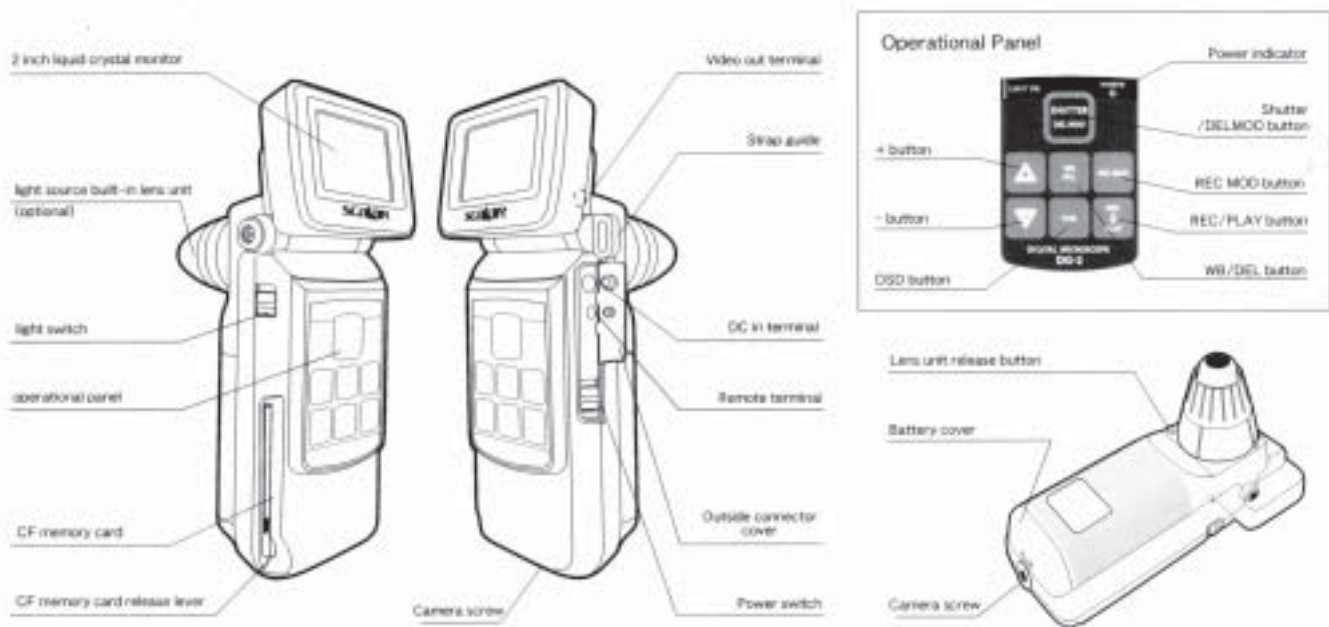
outside strobe



DG-2A main specifications

image capture sensor	: 1/1.45 inches interface scanning CCD (aspect ratio 3:2, RGB primary color filter square pixel)	battery duration time	: 1 - 1.5 hours under continuous operation (depending on type of use) continuous recording 1 hour (depending on type of use)
pixels	: total pixels : approx. 2.3 million pixels (1901 x 1212) effective pixels : approx. 2.19 million pixels (1816 x 1208)	LED for power check	: power on - Green LED battery low - Red LED power off - Both LEDs off
mount	: Scalar DG mount (based on C mount when C mount adaptor installed)	expected number of CompactFlash™ memory card pictures: (*subject to change depending on images)	
shutter speed	: 1/45 to 4 second	• NORM mode : approx. 31 images for 16MB, 62 images for 32MB, 124 images for 64MB	
storage media	: CompactFlash™	• FINE mode : approx. 17 images for 16MB, 34 images for 32MB, 69 images for 64MB	
		• ZOOM mode : approx. 31 images for 16MB, 62 images for 32MB, 124 images for 64MB	
monitor	: 2 inches - 130,000 pixel low-temp. poly-silicon TFT liquid crystal (dot number: 537 x 234)	weight	: approx. 250g (for body only), approx. 370g (when battery and CF card are used.)
video output	: NTSC composite signal	screw for mounting	: standard camera screw
video out terminal	: 3.5 monoral jack	operating environment temperature	: 0 to 40° C
remote terminal (also used for outside synchronous strobe)	: 2.5 sub-mini jack	storage environment temperature	: -10 to 55° C
DC in terminal	: EIAJ standard type-2 (DC jack center plus)	operating and storage relative humidity range	: 30 to 85% (non-condensing)
light switch	: light A, light B interchangeable (when functional light built-in lens unit is used)	output power	: 5V maximum output current 250mA
power requirements	: DC6.0V ± 5% 1A 6.0V - 7.2V ± 5% when battery is used	DG-2A Enhancements	: Focus indicator bar : Time/Date Stamping : Variable settings for Red-Blue color balance defaults
power consumption	: approx. 6W when only the main body is operable		

DG-2A controls



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