

## Additions and corrections to the User's Manual for the COOLSCOPE

Thank you for purchasing a Nikon product.

This booklet contains important material, which you should read together with the the User's Manual for the COOLSCOPE.

#### <1>

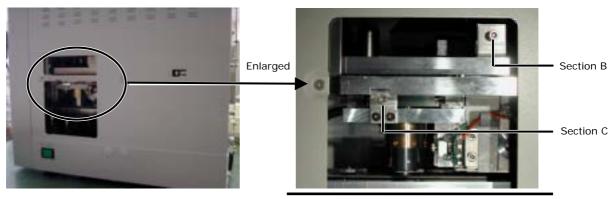
Modify "7 Unpacking and Unclamping" in P.7 as indicated below. (Change the underlined text.)

### 7 Unpacking and Unclamping

- 1) Check the contents to ensure that the package contains the following:
  - · COOLSCOPE
  - · Hex wrench
  - Power cord <<deleted
  - User's manual
  - · Compact flash card

To avoid discoloration and fading of printed characters, do not use any organic solvents (e.g., alcohol, ethanol, thinner) on painted, plastic, and printed areas. Use of a silicon cloth is recommended. To clean the display and other peripherals, please refer to their respective instruction manuals.

## <2> Modify "7 Unpacking and Unclamping" in P.8 as indicated below. (Add the underlined figure.)



The cover (1) on the right side is detached.

## <3> Modify "2 Names and Functions of Buttons (Observation buttons)" in P.26 as indicated below. (Add the underlined text.)

2	5×	[MAG.] button	Changes the magnification	P.32
			* Right-click, first to change the optical zoom magnification, then to perform autofocus.	
			(Note: This function is enabled only when the optical zoom magnification is adjusted from low to high magnification)	

#### <4>

Modify "2 Names and Functions of Buttons (Observation buttons)" in P.26 as indicated below. (Add the underlined text.)

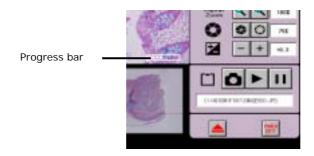
6	[APERTURE] button	Adjusts the aperture (coarse movement)	P.42
		* Right-click to adjust the aperture (fine movement).	

### <5>

Add the following text and figure to "3 Bringing the Image into Focus (Automatic Focusing)" in P.31.

#### NOTE:

- When the [AF] button is used for the first time following specimen-slide replacement, always select 5 x as the magnification. Note also that the [AF] button must be used with the specimen positioned at the center of the field of view.
- If it is difficult to bring the image into focus, display a high-contrast area of the image at the center of the field of view and then click on the [AF] button again. Note that right-clicking on the [AF] button enables confirmation of the AF area. For more information, please refer to "1.9 Displaying the AF area on the micro image" in Chapter VI.
- During autofocusing, a progress bar is displayed on the micro image to indicate the process status. When the bar reaches the end, autofocus is complete.
- The color of the progress bar will be the same as the color selected for the scale.



## <6>

Add the following text to "4.2 Changing magnifications" in P.32.

NOTE:

Right-click, first to change the optical zoom magnification, then to perform autofocus. This function is enabled only when the optical zoom magnification is adjusted from low to high magnification. If the magnification is changed from high to low, right-clicking will not activate autofocus.

## <7> Modify "2 Specifying the Image Storage Format, Storage Medium, and File Name" in P.36 as indicated below. (Add/change the underlined text.)

On delivery, the COOLSCOPE has the following settings set for image storage format, storage medium, and filename.

No.	Item		Initial setting
1	Storage format	Image file format	ВМР
		Image size	1280*960
		Image quality	FINE
2	Storage medium		Compact Flash Card
3	Folder name		F
4	File name		IMAGE

Change the image storage format, storage medium, and/or file name as necessary. The settings remain in effect until the power switch of the COOLSCOPE is turned off. If you use the [POWER OFF] button to switch off the COOLSCOPE, the current settings for image file format, image quality, and storage medium are saved. These settings are reloaded the next time power is switched on.

## <8> Add the following text to "3 Capturing an Image" in P.38.

NOTE: •

 When a scale is displayed on the screen, the scale is also added to the saved image. However, the scale cannot be displayed when the image size is 2560 x 1920.

<9> Add the following text to "2.2 Closing/opening the aperture" in P.42.

NOTE: • Right-click to enable adjustment in 5% increments (range: 25% to 100%).

### <10>

Add the following text to "4.1 Enabling the saving of observation conditions to the CF CARD" in P.44.

NOTE: If you use the [POWER OFF] button to switch off the COOLSCOPE, the observation save enable/disable conditions are saved. These settings are reloaded the next time power is switched on.

#### <11>

Modify "4.2 Saving the current observation conditions" in P.44 as indicated below. (Change the underlined text.)

Click on the [MEMORY] button.

A number appears on the macro image. At the same time, the [RECALL] button with the same number is displayed in the Memory area. Numbers are assigned automatically incremented by 1.



#### <12>

Modify "4.5 Replicating a set of observation conditions saved on the CF CARD" in P.46 as indicated below. (Add/change the underlined text and figure.)

Click on the [RECALL] button.
 A list of Recall folders is displayed.





List of Recall folders

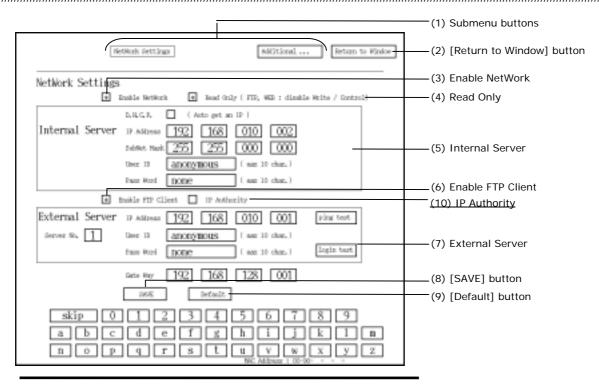
NOTE:

"[All clear] the Memory before reading out the CF card." appears if any of the observation conditions remain undeleted from the COOLSCOPE memory. The message will disappear automatically.

- 4) Select the name of the folder in which the desired set of observation conditions is saved.

  Reading of stored observation conditions starts.
  - Click the [CLOSE] button to close the Recall folder list and halt the reading operation.
- 5) Click on the NUMBER button with a number corresponding to the set of observation conditions to be replicated.
  - The set of observation conditions for the clicked NUMBER button is replicated. In the absence of a specimen slide in the COOLSCOPE, the image saved on the CF CARD is replicated.

## <13> Modify "3.1 NetWork Settings submenu" in P.62 as indicated below. (Add/change the underlined text and figure.)



## <14>

Modify "(4) Read Only (FTP、WEB: disable Write/Control)" in "3.1 NetWork Settings submenu" in P.62 as indicated below. (Change the underlined text.)

(4) Read Only (FTP, WEB: disable Write/Control)

Allows you to write-enable or write-disable the Web and FTP server.

To operate the COOLSCOPE from another PC through the Web screen, as when magnifications are changed, uncheck this box so that the asterisk (\*) disappears. Note, however, that this option may be left write-disabled if you simply wish to retrieve images.

*	= Write/COOLSCOPE operation disabled
	= Write/COOLSCOPE operation enabled

#### <15>

Modify "(7) External Server" in "3.1 NetWork Settings submenu" in P.64 as indicated below. (Change the underlined text.)

- GateWay

Sets the gateway address.

#### <16>

Add the following text to "3.1 NetWork Settings submenu" in P.64.

## (10) [IP Authority]

Used to specify IP addresses permitted to connect to the COOLSCOPE. To designate IP addresses allowed to connect to the COOLSCOPE, display an asterisk ("\*") and register authorized IP addresses by the procedures given below. (Up to eight IP addresses.)

Registering IP addresses authorized to connect

- 1) Insert a CF card into the PC.
- 2) Create a folder named "\NET" on the CF card.
- 3) Create a file and list of IP addresses authorized to connect.
- Example of data -

192.168.10.2

192.168.10.10

192.168.10.36

192.168.21.\*

(You can use the wild card character ("\*"). In this example, the wild card character \* represents all values from 1 through 254.)

- 4) Assign a name with the ".ip" extension to the text file and save it to the "\NET" folder.
- Example of filename -

Autho.ip

- 5) Insert the CF card into the COOLSCOPE.
- 6) Connect to the COOLSCOPE from the external PC using Telnet and execute a "w\_IPA" command to register the IP addresses. (Refer to "3.5 Using Telnet Commands to Operate on the COOLSCOPE" in Chapter VIII.)

#### <17>

Modify "(3) Date and Time" in "3.2 Additional Settings submenu" in P.65 as indicated below. (Change the underlined text.)

#### (3) Date and Time

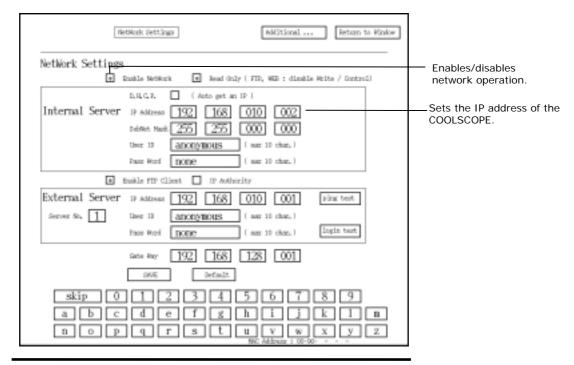
Enter the date and time here.

NOTE:

The timer stops if the COOLSCOPE is left unpowered for an extended period. Check the date and time prior to use if the power has not been turned ON for  $\underline{a}$  month or more.

### <18>

Modify "3.2.2 Setting Essential Items—Network Settings" in P.72 as indicated below. (Change the underlined figure.)



<19> Modify "3.3.3 WEB screen functions" in P.77 as indicated below. (Change the underlined text and figure.)

Macro image

Micro image Controller (1) [RELOAD] button (2) [INTERVAL TIMER] list box (3) [RUN] button (4) [MOVE] button (16) [+AF] Check box 20x 40x (5) [MAG.] button (6) [AF] button (7) [FOCUS] button (8) [DIGITAL ZOOM] button (9) [APERTURE] button 46 (10) [AE] button Fight to Swip (11) [DOWNLOAD] button (12) [TYPE] list box Middle 846 < 4061 \* (13) [SIZE] list box (14) [QUALITY] list box (15) [ANNOTATION] check box

## <20>

Add the following text and figure to "3.3.3 WEB screen functions" in P.77

(16) [+AF] Check box

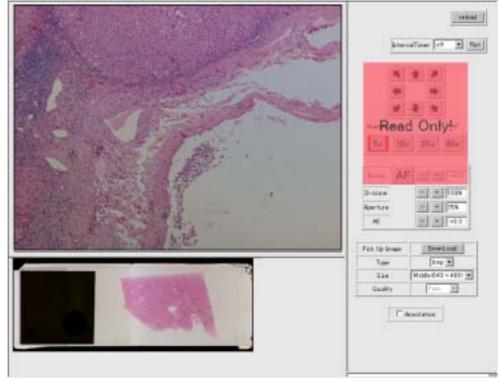
Allows automatic enabling/disabling of autofocusing after optical zoom magnification adjustment.

NOTE:

If the Web screen displays the following image, the COOLSCOPE network

setting is set to "Read Only."

(Refer to "3.1 NetWork Settings submenu" in Chapter VII.)



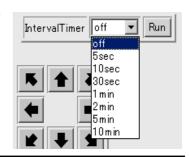
#### <21>

Modify "(2) Selecting intervals for updating the micro image" in "3.3.4 Working with the WEB screen" in P.78 as indicated below. (Change the underlined text and figure.)

### (2) Selecting intervals for updating the micro image

Select intervals for updating the micro image. Eight options –  $\underline{off}$ , 5 sec, 10 sec, 30 sec, 1 min, 2 min, 5 min, and 10 min – are available to choose from for updating intervals. The updating intervals are set at " $\underline{off}$ " when the WEB screen opens.

1) Click on the [INTERVAL TIMER] list box and select the desired intervals from the list.



<22>

Modify "(2) Selecting intervals for updating the micro image" in "3.3.4 Working with the WEB screen" in P.78 as indicated below. (Change the underlined figure.)

## (3) Starting/pausing updating of the micro image

 Click on the [RUN] button to start micro image updating.



2) Click on the [RUN] button again to pause updating.

NOTE: The [RUN] button becomes a [Pause] button when updating of the micro image starts.

### <23>

Add the following text to "(4) Changing the observation position" in "3.3.4 Working with the WEB screen" in P.78.

NOTE: • This function is disabled if the COOLSCOPE network setting is set to "Read Only."

#### -24-

Modify "(5) Changing magnifications " in "3.3.4 Working with the WEB screen" in P.79 as indicated below. (Add/change the underlined text and figure.)

### (5) Changing magnifications

 Click on the [MAG.] button.
 Changing magnifications automatically adjusts the lighting brightness and aperture.



NOTE:

- Changing magnifications from the PC automatically updates the micro image.
- This function is disabled if the COOLSCOPE network setting is set to "Read Only."

## <25>

Modify "(6) Bringing the image into focus " in "3.3.4 Working with the WEB screen" in P.79 as indicated below. (Add/change the underlined text and figure.)

### (6) Bringing the image into focus

The image is brought into focus with 5x selected as the magnification.

 Click on the [AF] button. The image is automatically brought into focus.



NOTE:

- When the [AF] button is used for the first time following specimen-slide replacement, always select 5 x as the magnification. Note also that the [AF] button must be used with the specimen positioned at the center of the field of view.
- If it is difficult to bring the image into focus, display a high-contrast area
  of the image at the center of the field of view and then click on the [AF]
  button again.
- Executing auto focus from the PC automatically updates the micro image.
- This function is disabled if the COOLSCOPE network setting is set to "Read Only."

#### <26>

Modify "(7) Adjusting the image focus" in "3.3.4 Working with the WEB screen" in P.80 as indicated below. (Add/change the underlined text and figure.)

### (7) Adjusting the image focus

1) Click on the [FOCUS] button.



NOTE:

- Adjusting the image focus from the PC automatically updates the micro image.
- This function is disabled if the COOLSCOPE network setting is set to "Read Only."

### <27>

Add the following text to "(9) Adjusting the aperture " in "3.3.4 Working with the WEB screen" in P.80.

NOTE ... This function is disabled if the COOL SCORE network setting is set to

NOTE: • This function is disabled if the COOLSCOPE network setting is set to "Read Only."

## <28>

Add the following text to "(10) Adjusting the image brightness" in "3.3.4 Working with the WEB screen" in P.80.

NOTE: • This function is disabled if the COOLSCOPE network setting is set to "Read Only."

#### <29>

Add the following text and figure to "3.3.4 Working with the WEB screen" in P.82.

## (16) Setting autofocus to be performed immediately after optical zoom magnifications

When the [+AF] function is enabled, autofocus activates automatically after any changes in optical zoom magnification. Note that this function is enabled only when the optical zoom magnification is adjusted from low to high magnification.

1) Click the [+AF] check box to enable the [+AF] function.



2) To cancel, click the [+AF] check box once again to uncheck.

NOTE: After autofocusing is completed, the micro image is automatically updated.

#### <30>

Modify "3.4.1 Using FTP Commands to Get COOLSCOPE Image Files from a PC" in P.80 as indicated below. (Add/change the underlined text.)

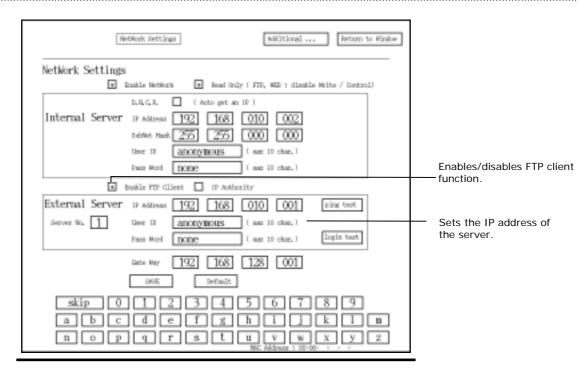
3) Execute the cd RAMIBOX command.

Eight file names that are virtual names will be displayed.

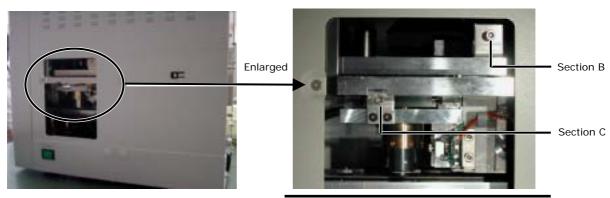
- IMG1280.bmp
- IMG1280.jpg
- IMG640.bmp
- IMG640.jpg
- IMG320.bmp
- IMG320.jpg
- MACRO.bmp
- MACRO.jpg

The time of day for the files displayed at this time is 0 hours 0 minutes. The actually acquired files are given the time of day when you issued the Get command.

## <31> Modify "Setting External Servers of the COOLSCOPE—Network Settings" in P.91 as indicated below. (Change the underlined figure.)



# <32> Modify "6 Transporting (Clamping)" in P.110 as indicated below. (Add the underlined figure.)



The cover (1) on the right side is detached.