

FLUOVIEW

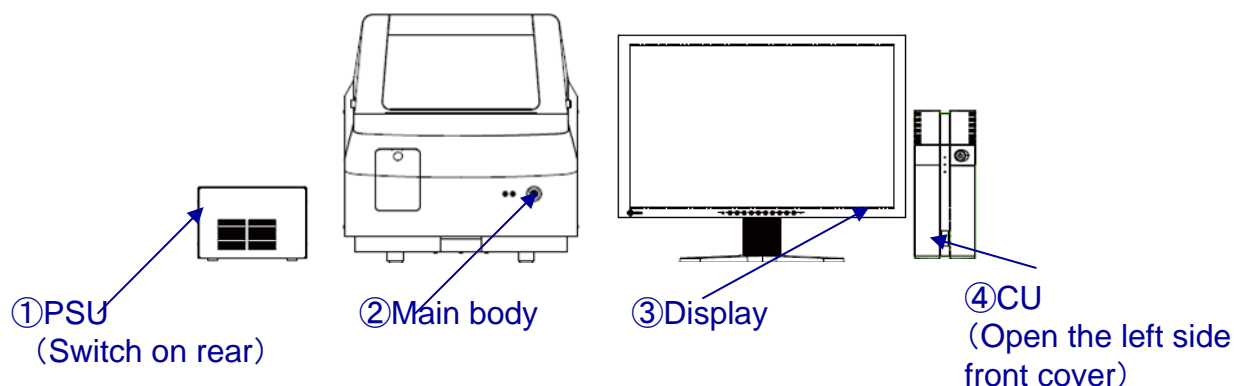
FV10i



Hands on manual

FV10iの起動

1.Power ON



*Switch on Main body before activating FV10i-SW

2.Set Specimen on Sample holder

Holder for Slide Glass



Holder for 3 Cover glass bottom dish



3.Set Sample holder on Main body

4.Activate FV10i-SW



Welcome to "FV10-ASW"

OLYMPUS

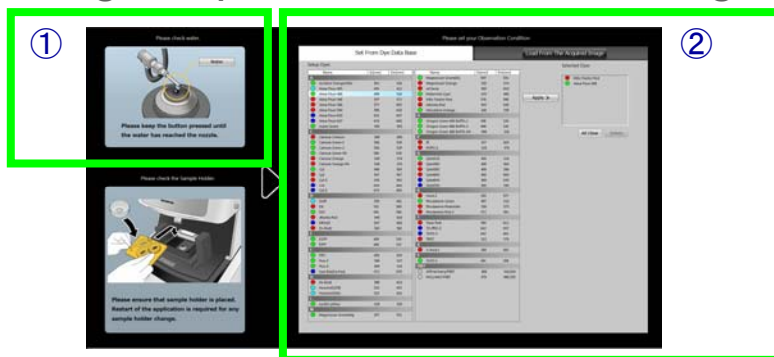
FV10-ASW

Ver. 02.00

User ID:

Password:

Sample Setting: Acquisition condition setting



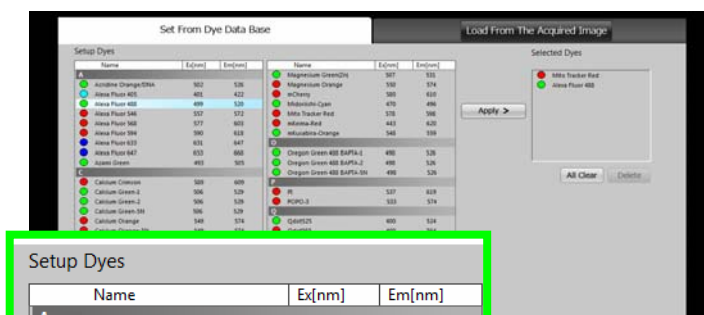
1. Confirmation of water at the nozzle. (①) (Only FV10i-W)



Remove the sample holder, and keep pressed button I the water has reached the nozzle. Set specimen holder again.

Water

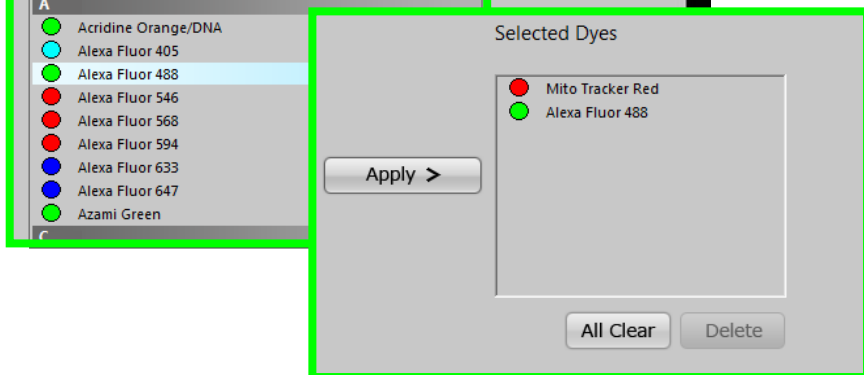
2. Set acquisition condition from dye list (②)



Select [Set From Dye Data Base]tab.

Select a dye name on the list and click **Apply >** button, then dye name will be registered on the [Selected Dyes] list.

When you want to acquire multi color image, repeat same action for other dyes.



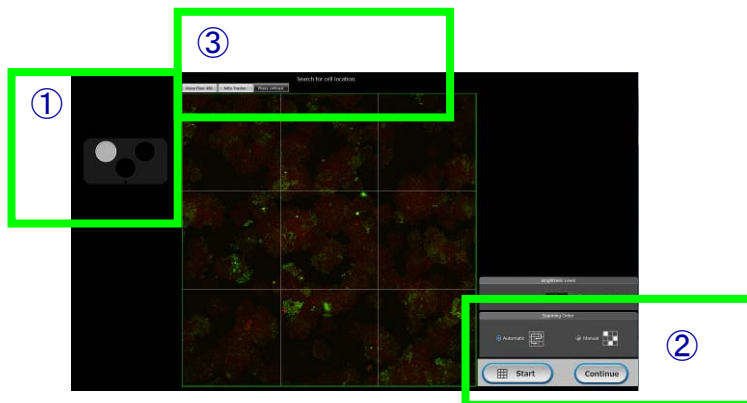
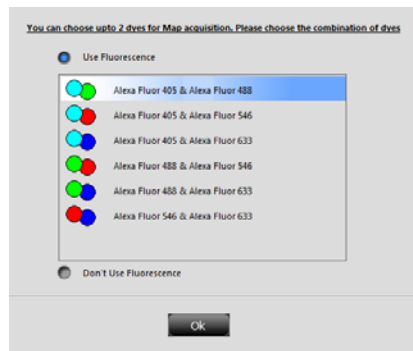
Maximum number of the dye is "4".

3. Move on to [Acquire Map Image]

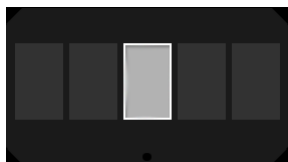


Acquire Map Image : Acquisition of Map image

1. Selection of dyes for Map image when 3 or 4 dyes are registered.



1. Selection of container (①)



Holder for Glass

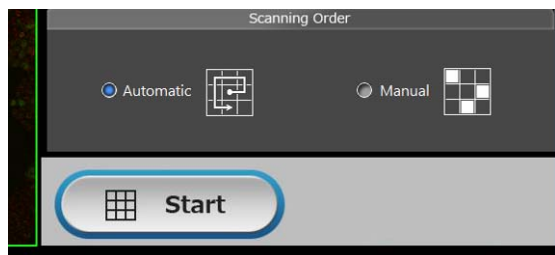
Select the position corresponds to the map area indicator number where you set specimen.



Holder for 3 Dishes

Select the position to observe

2. Start Map acquisition (②)



Select [Automatic], and the click [Start] button.

※Progress bar will be shown during the sequence of autofocus and auto brightness adjustment. It takes about 1min to 1.5min, After progress bar disappeared, automatically map image acquisition will start.

Reference : Switch display of Map image (③)



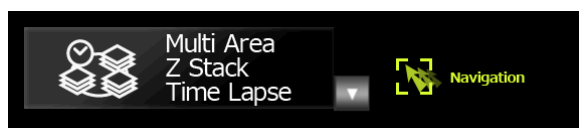
ON/OFF of tab upwards of map image will change the display CH.

3. Move on to [Observe]



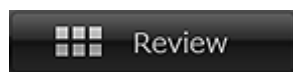
Observe : Image Acquisition

1. Select observation mode and activate Navigation

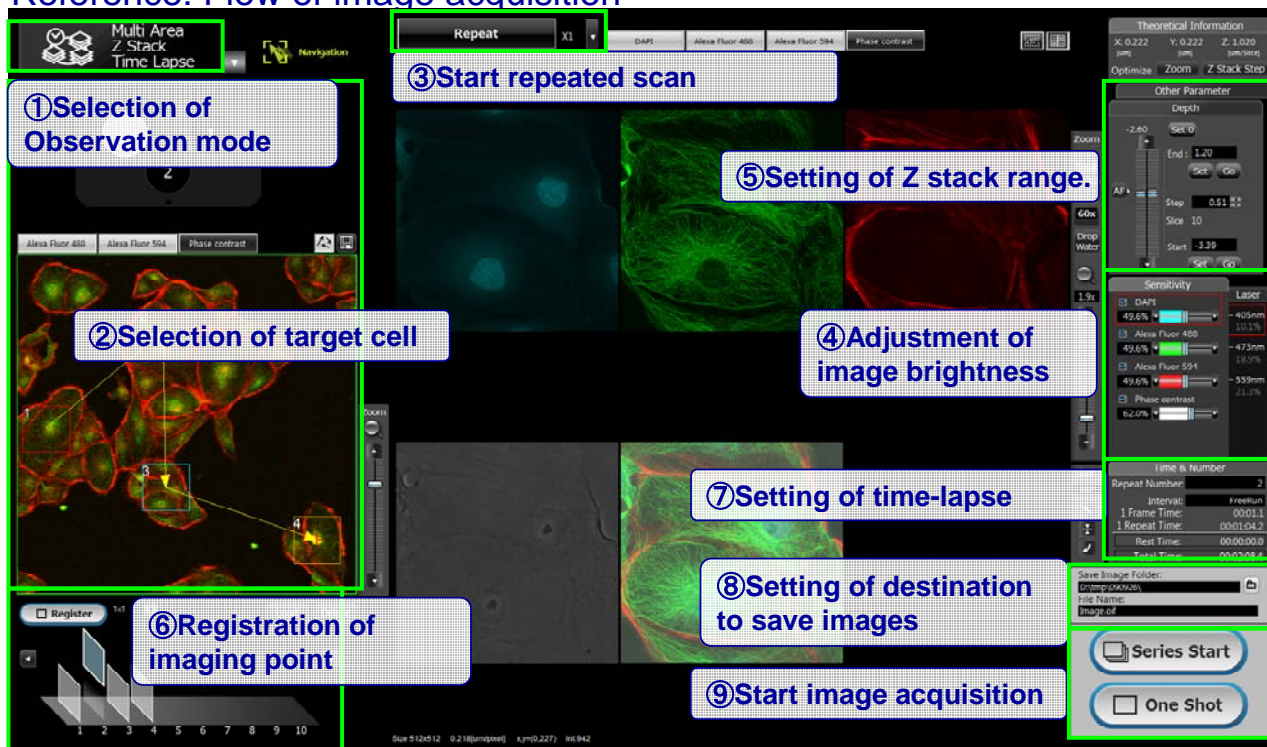


Following Navigation, acquire image.

2. Move on to [Review] software



Reference: Flow of image acquisition



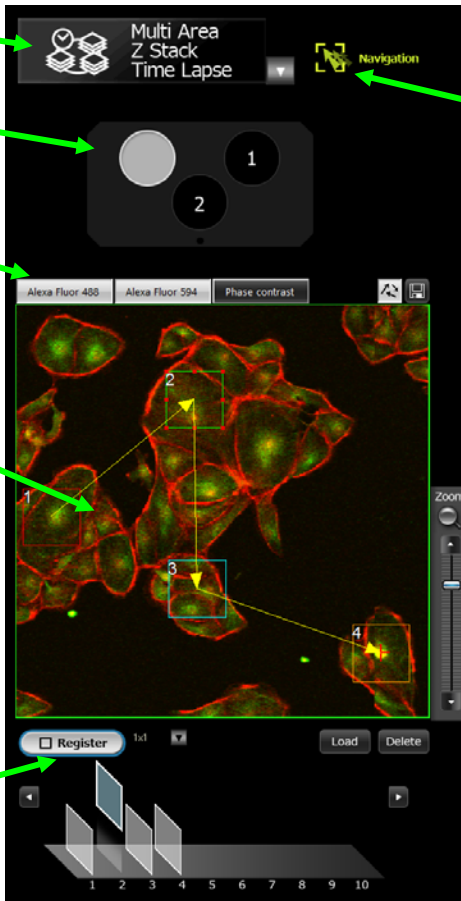
Block A

Block B

BlockC

Observe

Block A: Selection of observation area and Registration



Select observation mode

Select container

Select display CH of Map

Map image display area
※Select the cell to observe

Registration of acquisition point coordinates and condition

Activate Navigation

Zoom up/down map image

Select display mode
Tile/Merge

Multi Area
Z Stack
Time Lapse

Navigation

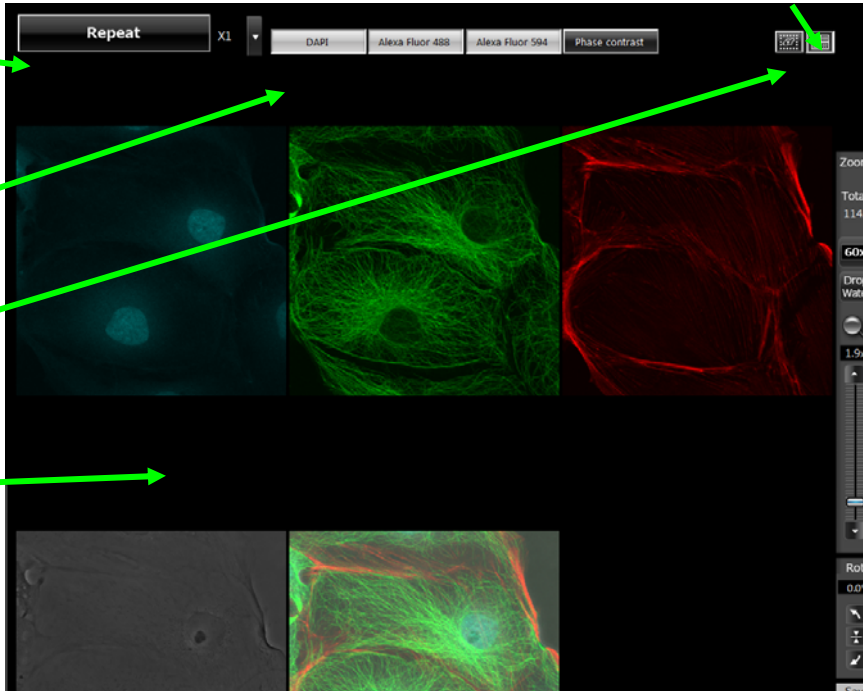
1
2

Alexa Fluor 488 Alexa Fluor 594 Phase contrast

Register Load Delete

1 2 3 4 5 6 7 8 9 10

Block B: Live view



Start/Stop repeated scan

Select display CH for merge image of live view

Clip scan

Live view display area

Repeat X1

DAPI Alexa Fluor 488 Alexa Fluor 594 Phase contrast

Zoom
Total: 114.0
60x
Drop Water
1.9x
Rot
0.0°

Observe

Block C: Image acquisition adjustment

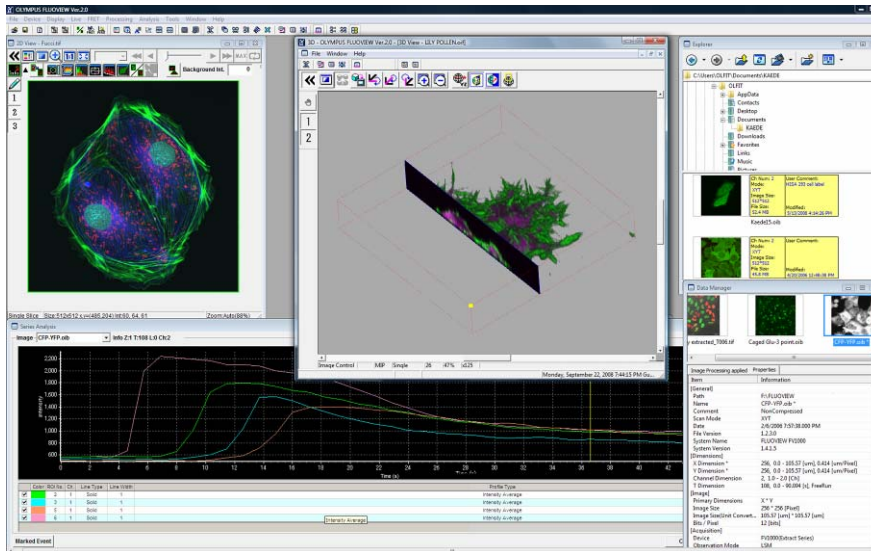
The screenshot displays the Olympus image acquisition software interface, featuring several adjustment panels and callouts for specific functions:

- Theoretical Information:** Shows X: 0.222 [um], Y: 0.222 [um], Z: 1.020 [um/Slice]. Includes buttons for Optimize, Zoom, and Z Stack Step.
- Other Parameter:** Includes a Depth section with a slider for Z stack range (Start: -3.39, End: 1.20, Step: 0.51, Slice: 10) and buttons for Set and Go.
- Image Size:** Set to 512x512.
- Speed & Quality(Average):** Set to Quality (x8).
- Confocal Aperture:** Set to x1.0.
- Cross Talk Correction:** Set to ON.
- Sensitivity:** Includes checkboxes for DAPI (49.6%), Alexa Fluor 488 (49.6%), Alexa Fluor 594 (49.6%), and Phase contrast (62.0%).
- Laser:** Includes checkboxes for DAPI (16.7%), Alexa Fluor 488 (15.0%), and Alexa Fluor 594 (21.9%).
- Time & Number:** Includes Repeat Number (2), Interval (FreeRun), 1 Frame Time (00:01.1), 1 Repeat Time (00:01:04.2), Rest Time (00:00:00.0), and Total Time (00:02:08.4).
- Save Image Folder:** Set to D:\tmp\090926\.
- File Name:** Set to Image.tif.
- Buttons:** Series Start and One Shot.

Callouts and their corresponding functions:

- Display of theoretical resolution
- Focus adjustment
- Set range of Z stack
- Exchange objective lens
- Put water/oil on to the top of the objective lens
- Detector sensitivity adjustment
- Zoom
- Rotation angle adjustment
- Set image size
- Set frame rate. *Kalman filter
- Set pinhole size
- Laser power adjustment
- Set timelapse
- Set file name and destination folder
- Start Acquisition

Review : Edit/ Analysis of image



Same software with FV10-ASWRS