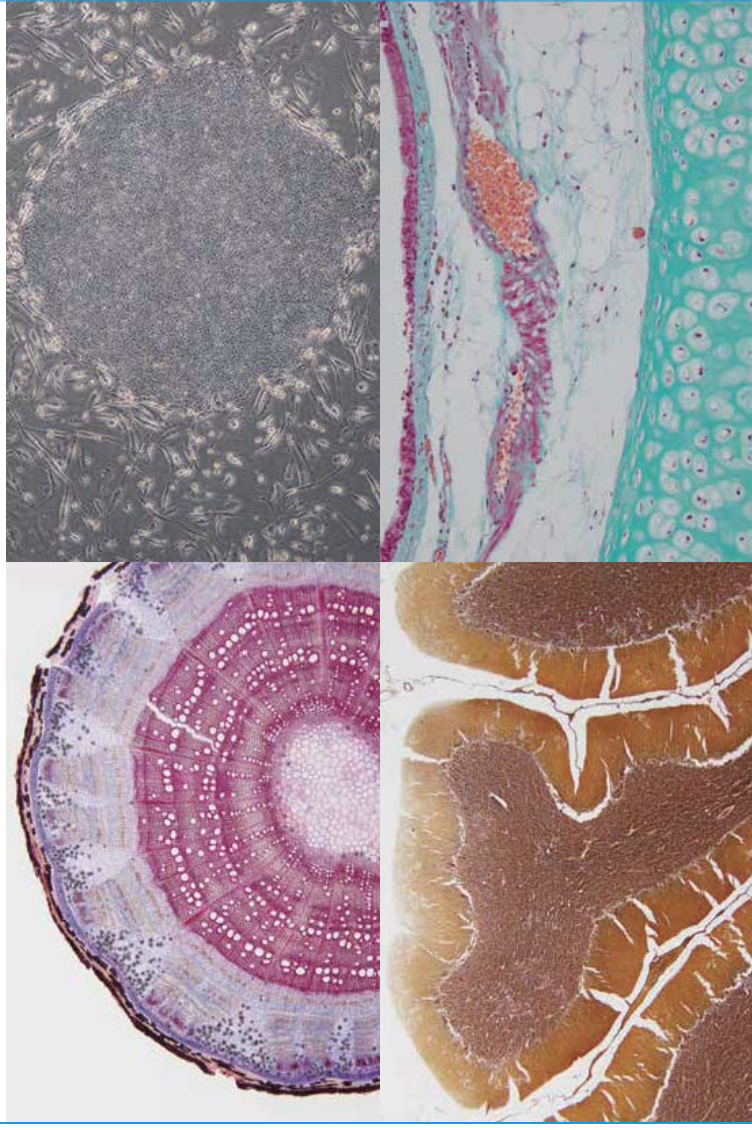


Smooth, Live Image Display Ideal for Conferences



DP22 Specification

Type	Single chip color CMOS camera
Imaging sensor	1/3" CCD
Size	2.8 mm
Effective pixels	2.88 million pixels (2.88 million pixels)
Scanning method	Progressive scanning
Color filter	RGB primary color on-chip filter
Recording area	7.08/9.0 x 1.3/1.0 mm, diagonal length 0.8 mm
Minimum readout rate	2.76 megapixels (1920 × 1440)
Mount	C-mount
Sensitivity	Equivalent to ISO200/400/800
Mitigating Area	Full image/ 30% / 1%
Exposure control	Auto/Manual
Exposure time	AE lock (enabled when Auto Exposure is selected) Exposure compensation Area: 25/10 × 1C × 1 order / (WB steps × 1/64) (EBV step enables when Auto Exposure is selected)
Camera I/F	Auto (120000) to 25 USB2.0 Micro B
Camera head	77.1W × 49.5 L × 42.1 H mm
Dimension	180.0W × 200.0D × 47.1H mm

	Stand-alone	PC connection
Image size	1920 × 1440	1920 × 1440
	1920 × 1080 (Full HD)	1920 × 1080 (Full HD)
	960 × 720	960 × 720

Live image display (frame rate)	960 × 720 (AVI H264)
25fps (1920 × 1440)	25fps (1920 × 1440)
25fps (960 × 720)	25fps (960 × 720)
25fps (1920 × 1080)	28fps (1920 × 1080)

Compatible image display	
1000 × 1000 VGA	
1920 × 1080 HD	
1680 × 1050 WSXGA+	
1000 × 1200 UGA	
1280 × 1024 SXGA	
1280 × 800 UGA	
1280 × 854 WXGA	
1280 × 768 VGA	
1440 × 900 WUXGA	
1024 × 600 WSXGA	—
800 × 480 VGA	

Storage media	USB flash memory, USB-HDD	—
Controller interface	Camera I/F: USB 3.0 Type-A	USB3.0 (+5V / 900mA power output)

Display output: DVI-I (Digital/Analog RGB)
I/F: USB 2.0 × 4, USB3.0 × 1

Scale display	Scale view & burn in can be selected	Available microscope total magnification:	According to cellSens® specifications
AUDIO MIC IN, LINE OUT	0.01 × to 9999.99 × Up to 28 total magnifications can be memorized		

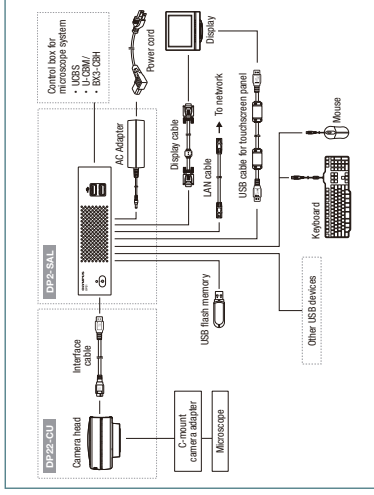
Measuring functions	According to cellSars [®] specifications
Distance of 2 Points, 3 Points Circle, Distance between 2 Circle Centers, 3 Points Angle, 4 Points Angle, Perpendiculars, Polygon Area, Boundary Length, Distance of Parallel Lines, XY Distance, Count,	
Radius Line, and Circle Line	

* cellSens software is not for clinical diagnostic use.

- OLYMPUS CORPORATION is ISO14001 certified.
- OLYMPUS CORPORATION is FM553994/ISO9001 certified.

- All company and product names are registered trademarks and/or trademarks of their respective owners.
- Images on the PC monitors are simulated.
- Specifications and appearances are subject to change without any notice or obligation on the part of the manufacturer.

DP22 stand-alone configuration system diagram



DP22 PC configuration system diagram

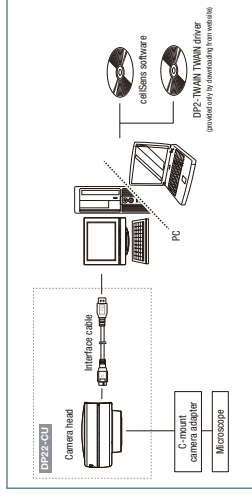


Image data courtesy of:
"Human IPS Cell colony"
Isao Asaka
Center for IPS Cell Research

Stand-alone camera featuring smooth, extremely stable live image display and easy operation

The DP22 stand-alone digital camera for microscopes allows easy observation, focusing, framing and saving while enabling smooth, live image display of high-definition images for conferences, teaching and more.



Optimized for conferences and lectures

◎ Excellent color reproduction

The DP22 captures and displays images in ultra-high resolution of 1920 x 1440 pixels, using a powerful 2.8-megapixel CCD capable of reproducing 16.7 million colors. Precise reproduction of fine structures and subtle color differences allows targets on the monitor to be identified with an accuracy equivalent to observation through microscope, assuring highly professional presentations.

- Live display at 25 frames per second

The DP22 displays images with resolution of 1920 x 1440 pixels — surpassing standard Full HD resolution — at a rate of 25 frames per second, commonly used for full-motion video. Images are not compressed for display so there is absolutely no degradation in quality, enabling operators to make precise focusing and framing.



Optimized for teaching

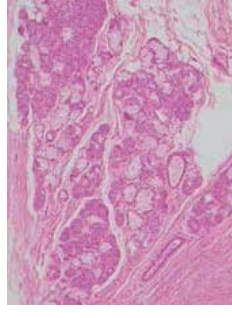
Extended movie recording with audio

The DP22 can record movies up to 30 minutes in length with audio. This is ideal for preparing teaching or presentation materials as it allows you to record a movie with audio while moving specimen.

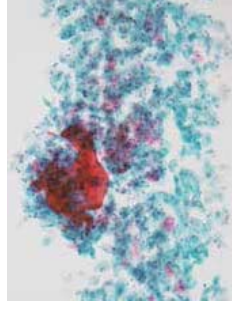
Comfortable operation functions of the DP22.

- Three color modes

Three color modes are provided, enabling the operator to tailor the image to suit the requirements of different applications. By selecting one of the three preset modes, optimum images can be acquired for various sample types and observations without having to change all the settings each time.



High fidelity model

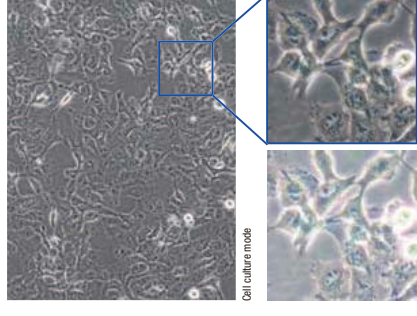


Normal mode

- **High fidelity mode** : Reliable color reproduction equivalent to microscope observation.
- **Normal mode** : Enhanced color facilitates acquisition of even pale stained specimens.
- **Cell culture mode** : Dedicated to phase contrast and DIC observations.

- Sequential shooting and movie frame clipping

DP22 high frame rate allows capturing of sharp, clear movies even when shooting fast-moving subjects. If needed the frame clipping function allows the extraction of single frames from the acquired movie.



Conventional model

Cell culture mode:
Hyalation is reduced to allow clear
observation of cell shapes.

Easy operations for capturing

Simple control panel

Frequently used buttons are conveniently placed in the most intuitive and accessible positions. Easy-to-understand layout makes it easy even for first-time users correctly operate the camera.

- Touchscreen monitor for intuitive operation

When a touchscreen panel is used, the work efficiency is dramatically improved as there is no need to use the mouse or the keyboard to operate the camera.

- Compatibility with a wide range of external devices

An SD card, external hard drive, foot switch and/or keyboard can be connected to the control unit through the USB interface.

* Please contact your Olympus local representative for the usable USB devices.

- Easy image capturing using a mouse

Images can be captured as required simply by double-clicking the mouse in the live image.

- Easy USB 3.0 connection

The DP22 is compliant with the USB 3.0 standard for quick connection to compatible computers and fast transfer of image data.



Control screen