EVIDENT

Culture Microscope

CKX53

CKX3 Series

The Cell Culture Laboratory Solution

OLYMPUS
CKX53

Improved Imaging and Usability Ease Cell Cultivation

With improved image quality and easy handling, the Olympus CKX53 microscope delivers stable performance and efficiency for a variety of cell culture needs, including live cell observation, cell sampling and handling, image capture, and fluorescence observation.

Live Cell Observation

Acquire clear, reproducible, and high-contrast images with a wide visual field, made possible by the microscope's long-life LED and iPC system. Additionally, the inversion contrast (IVC) technique provides clear three-dimensional views.

Cell Sampling and Handling

Because of its small size and lightweight design, the CKX53 microscope enables easier, more efficient cell sampling and handling in a clean bench environment. The user-friendly design and easy-to-operate holder and manual stage maximize performance and usability.

Image Capture

Equipped with a standardized camera port, the microscope can be optionally paired with an Olympus camera, allowing users to quickly obtain clear images in brightfield illumination, phase contrast, inversion contrast, and fluorescence imaging modes.

Fluorescence Observation

During fluorescence observation, a wide range of fluorescence dyes can be used by changing the microscope's mirror unit. With the mirror unit's increased filtering ability, high-contrast fluorescence images with a high S/N ratio can be reliably obtained even when fluorescence is relatively weak. In addition, the microscope’s LED and LDP light source enables clear, bright fluorescence observation.

Live Cell Observations

Fast and Efficient Cell Observation with the Integrated Phase Contrast (iPC) System

The CKX53 iPC system's high contrast provides clear images without having to change the ring slit from a 4x to 40x objective. This simplifies your cell observation and makes your process more efficient.

Clear View with Long-Life LED Light Illumination

With a much longer life than halogen bulbs, the microscope's energy-saving LED light source delivers reliable color reproducibility as well as a uniform, clear image over the entire visual field up to FN22.

Clear view over the whole visual field

Phase contrast observation with high contrast

Wide and Clear View with a 2X Objective

The ring slit for the PLN2X objective—CKX3-SLPAS—has a 22 mm field of view and an 11 mm diameter. This enables you to efficiently screen cells for a faster cell culture process. In addition, the 2x objective provides higher contrast so that transparent objects in the sample can be easily identified.

CKX3-SLPAS

3D Views using the Inversion Contrast (IVC) Technique

The IVC technique uses a narrower depth of field than phase contrast, enabling you to obtain clear three-dimensional images for objects of any shape, including transparent ones. IVC provides clear views without halos or directional shadows, preserving the integrity of object details during observation.
*10X objectives (PLCN10X, CACHN10XIPC) are lined up for IVC observation.

CKX3-SLPIC

Reference: Y. Suzuki et al., Method for observing phase objects without halos or directional shadows. Opt Lett. 2015; 40(5): 812-5

User-Oriented Design for Efficient Cell Sampling and Handling

Easy Cell Observations in Sterile Conditions

The CKX53 microscope easily fits in a clean bench environment with the hood down, enables cells to be handled in sterile conditions. With a UV-resistant coating, the microscope can be left on the clean bench during UV light sterilization. The CKX53 microscope weighs only 7 kg (15.4 lb) and has a smaller footprint than previous models. It's designed to be lifted by the neck of the observation tube using one hand and has a convenient sliding pad on its base.

Easy Cell Sampling in a Clean Bench Environment

The shorter distance between the view point and the optical axis/focus knob offers natural hand positioning and makes focusing and cell sampling easier.
In addition, the LED light is available as soon as you turn the microscope on, so cell sampling and handling can be finished more quickly.

Ergonomic for Easy and Smooth Operation

Whether standing or seated, the 45-degree optical access and placement of the butterfly-shaped observation tube against the stage enables ergonomic cell observation. Sterile work can be started and finished quickly, so cells can be returned to the incubator in a minimal amount of time.
The power switch is located under the observation tube close to the knob for switching the light path for greater ease of use.

Accommodates a Variety of Cell Culture Containers

Using the universal holder, you can easily view cells that were cultured in a variety of containers, including dishes, microplates, and flasks. When the optional holder is attached, up to three 35 mm dishes can fit on the stage.

Microplates can be viewed without a holder, and you can quickly identify the well address using the grid showing each well position on the CKX3-MVR manual stage. When viewing a 96-well plate, each 90-degree rotation of the stage knob moves the well one position at a time, making it easy to keep track of the microplate position during observation.

More Comprehensive Observation for a Multi-Layer Tissue Flask

Detach the condenser to view containers—such as multi-layer tissue flasks—up to 190 mm tall. The objectives can be lifted up to 19 mm, enabling you to observe cells on the bottom two layers of a multi-layer tissue flask when using a PLCN4X objective.

Flexible to Use Different Containers

The holder's arms can be lifted to manually position the culture container. The stage can be extended up to 70 mm (2.8 in.) to the left and right for greater handling flexibility.

Fluorescence Observation

Clear Views with a Wide Range of Fluorescence Dyes

With the CKX53 standard fluorescence set, even weak fluorescence signals can be viewed clearly using the integrated LED and LDP light source (U-LGPS). The same high-performance mirror unit found on IX3 and BX3 microscopes can be set at three slots of the mirror unit slider. You can obtain the same high-quality fluorescence observation as high-end inverted microscopes for a range of fluorescence dyes. Compared to previous models, the improved filtering ability of the fluorescence mirror units produces images with higher contrast.

High Contrast under Bright Conditions

The microscope's umbra shield improves fluorescence observation by efficiently blocking out room light, enhancing the contrast and enabling clear fluorescence observation in bright conditions. When using phase contrast, you can lift the umbra shield so that light will pass through the sample.

Olympus Cell Culture Solutions

Quickly Capture Clear Images

The CKX53 microscope has a standard camera port. When paired with a DP23 camera, the software's cell culture mode captures the appropriate color for cell culture samples, enabling the microscope to quickly capture high-quality images. For even more versatility, any camera with a C-type lens mount can be used with the microscope.

Efficiently Check Fluorescence Protein Expression

The DP23M digital microscope camera is highly sensitive and equipped with a backside illuminated monochrome CMOS sensor to provide the image quality needed to check the expression of fluorescent proteins in cultured cells. Even weak fluorescence can be captured thanks to the camera's high signal-to-noise ratio. The DP23M camera can be controlled using cellSens imaging software and supports measurement and documentation functions.

The DP23M is for research use only.

CKX53 Configurations

Four Upgradeable Base Configurations

Brightfield

This package features brightfield objectives (4X and 10X) and is used for observing stained samples e.g., protoplasts, other plant parts, plankton, and similar specimens.

Phase Contrast Entry

This package features phase contrast objectives (4X, 10X, and 20X) and is used for observing the condition and activity of transparent live cells.

Phase Contrast Standard

This package features phase contrast objectives (4X, 10X, 20X, and 40X) and the manual stage (CKX3-MVR). It is useful not only for observing the condition and activity of transparent live cells, but also for observing detailed structures within the cells.

Fluorescence

This package features an LED and LDP light source (U-LGPS) and fluorescent illuminator, as well as phase contrast objectives (4X, 10X, 20X, and 40X) and the manual stage (CKX3-MVR).

CKX53 System Diagram

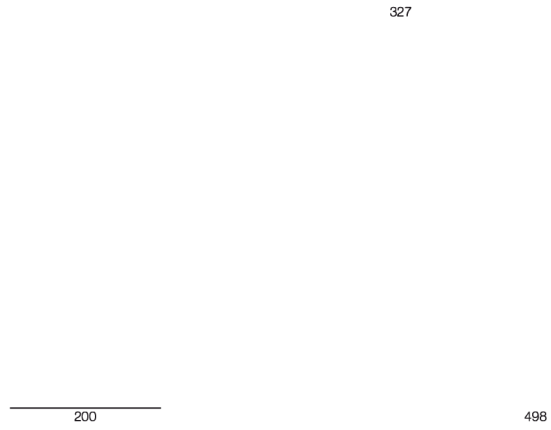
SPECIFICATIONS

Item		CKX53			
Model		Brightfield	Phase Contrast Entry	Phase Contrast Standard	Fluorescence
Optical system		UIS2 (universal infinity-corrected) optical system			
Focus		Revolving nosepiece vertical movement system using the coarse and fine focusing knobs. Stroke: 20 mm (Focal point: up to 18.5 mm from the plain stage top surface) Stroke per rotation : 36.8 mm (coarse), 0.3 mm (fine)			
Stage	Plain stage (D × W)	252 mm × 200 mm (9.9 in. × 7.9 in.) Exchangeable transparent insert plate is incorporated			
	Mechanical stage	Options		XY coaxial knob place on right side of the plain stage Microplate holder equipped with the escape function stage stroke: X = 110 mm, Y = 74 mm	
	Substage (D × W)			180 mm × 70 mm (7 in. × 2.8 in.)	
Illumination system	Light source	4000K color temperature LED light source			
	Filter holder	Insert up to 6 mm think with ø45 mm filter, detachable			
	Aperture diaphragm	Diaphragm blade, manual open/close system			
	Slider insertion	Options	With phase slider pocket and built-in slider position click stop mechanism pre-centered iPC aperture in 4X, 10X, 20X, and 40X; insertion direction can be adjusted ±30 degrees to the right or left sides		
iPC slider		Options	Pre-centered phase contrast aperture for 4X, 10X, 20X, and 40X and 2 ø45 mm empty apertures		
Condenser		Maximum numerical aperture: 0.3 Working distance: 72 mm Applicable objective magnification 2X, 4X, 10X, 20X, and 40X up to 190 mm height tissue flask can be loaded on the stage without detachable condenser			
Observation tube		Fixed trinocular tube, inclined 45 degrees Interpupillary distance 48–75 mm Light path: eyepiece/camera port = 100/0 ⇔ 0/100			
Camera port		Olympus camera adaptor interface			
Eyepiece		Magnification: 10X FN 22			
Fluorescence illuminator					Detachable illuminator 3-channel switchable
	FL light source				LED/LDP light source, or 100 W mercury
	FL light shutter	Options			Available
	FL field stop				Available
	FL mirror units				2 mirror units (B & G) and UIS2 mirror unit (optional)
	Umbra shield				Umbra shield is available to prevent room light
Rated voltage/ electric current		AC 100-240V 50/60 Hz 0.4A			AC 100-240V 50/60Hz 0.4A AC 100-240V 50/60Hz 1.6A
Power consumption		Less than 4 W			154 W

UIS2 OBJECTIVES

Objective	NA	W.D.	Remarks
PLN2X	0.06	5.8	
PLCN4X	0.1	18.5	
PLCN10X	0.25	10.6	
UPLFLN4XIPC	0.13	16.4	For use with CKX3-SLP
CACHN10XIPC	0.25	8.8	For use with CKX3-SLP
LCACHN20XIPC	0.4	3.2	For use with CKX3-SLP
LCACHN40XIPC	0.55	2.2	For use with CKX3-SLP
UPLFLN4XPH	0.13	16.4	PHL (For use with IX2-SL)
UPLFLN10X2PH	0.3	10	PH1 (For use with IX2-SL)
LUCPLFLN20XPH	0.45	6.6-7.8	PH1 (For use with IX2-SL)
LUCPLFLN40XPH	0.6	3-4.2	PH2 (For use with IX2-SL)

DIMENSIONS



(Unit: mm)

- **EVIDENT CORPORATION is ISO14001 certified.**
- **EVIDENT CORPORATION is ISO9001 certified.**
- **EVIDENT CORPORATION is ISO13485 certified.**
- **Illumination devices for microscope have suggested lifetimes. Periodic inspections are required. Please visit our website for details.**

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pE-300 Series

Microscopy Illumination

A range of LED Illumination systems for Fluorescence, Optogenetics, Electrophysiology and high speed microscopy applications

CoolLED

Simply Better Control

A range of LED Illumination systems for Fluorescence, Optogenetics , Electrophysiology and other high speed applications.

LEDs last longer

Intensity from a conventional lamp decreases through its life, which means that illumination varies dramatically over time. The lifetime of LEDs far exceeds that of these older lamps, and intensity remains broadly constant throughout its life providing a stable, repeatable light source.

pE-300 Series for Fluorescence

Some of the many fluorophores excited by the pE-300 Series

pE-300^{lite} - Simple White Light

Designed to fit most microscopes, the pE-300^{lite} is a compact system at a cost which makes it accessible to all.

Simple to buy: Configured for your everyday fluorophores such as DAPI, FITC, TRITC & Cy5 and affordable through your lab consumables budget.

Simple to fit: Direct fit means the pE-300^{lite} just attaches straight onto your microscope's epi-fluorescence port in seconds with a once-only simple adjustment that optimises the light output for your microscope.

Simple to use: Instant On/Off with the ability to optimise intensity and minimise sample damage via the simple desktop Control Pod.

The pE-300^{lite} : Simple White Light – simple to buy, fit and use.

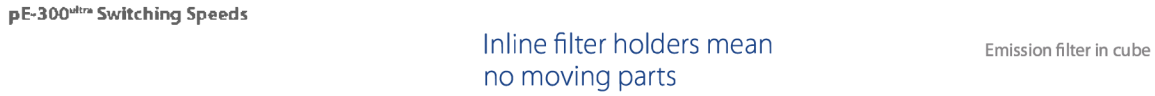
pE-300^{white} - Everyday Controllable Illumination

The pE-300^{white} adds greater control options to the platform.

The 3-channel control pod allows selection and control of excitation wavelength: whether it's to balance your FITC against your TRITC or to minimise bleaching by exciting only the markers you are working with today. Support from popular imaging software provides integrated control with your imaging set up time after time.

An additional benefit of the pE-300^{white} is that stains can be viewed either individually or in combination, without filter cube changes. This makes it ideal for use with multi-band filter sets as the screening process can be simplified when fewer filter cubes are used. Independent control of the three LED channels means that the user can control the level of excitation of each fluorescent stain independently on a multi-stained sample, potentially removing the need for single band filter sets altogether.

pE-300^{ultra} - Fast Controllable Illumination



The pE-300^{ultra} is the most controllable member of the pE-300 Series. In addition to the great features of the pE-300^{lite} and the pE-300^{white}, it offers precise control over wavelength, intensity and shuttering. Up to now these benefits have only been accessible to users of high end, highly sophisticated illuminators such as the CoolLED pE-4000.

Triggering multiple TTL inputs coupled with the ability to mount inline excitation filters provides microsecond switching of pre-filtered excitation light. This, when paired with today's high performance multi band filter sets, facilitates imaging traditionally done via a white light source and a filter wheel, with all the benefits of LEDs, and most excitingly at speeds not previously so affordable.

An additional feature of the pE-300^{ultra} is that it includes CoolLED's **"Sequence Runner"** multiple channel excitation mode. Users can define the order of their fluorophore capture using their pE-300^{ultra} Control Pod, then the pE-300^{ultra} light source can accept a single TTL output from the experiment set-up's camera to initiate the step-through of a sequence of excitation channels. This feature is independent of the individual channel TTL inputs on the light source. This offers users the facility to run through a sequence of excitation channels using a camera which has only a single TTL-out.

Specification

Performance:

pE-300 Series MB Spectrum

A microscope which is populated with a number of single band ("SB") filter sets will typically have DAPI excitation at 365 nm and a microscope with multi-band ("MB") filter(s) has excitation at 400 nm. The user can specify the configuration which is appropriate for their microscope. To

Order

pE-300-LT-D-SB-YYY-ZZ: pE-300^{lite} Illumination System, Direct fit single

Connectivity:

Manual control pod
pE-300^{lite}: via global TTL: <20 us at full power
pE-300^{plus} via global and individual channel TTL: <20 us at full power
pE-300^{lite} & pE-300^{plus} remote via USB (B type) for imaging software control ut to step through user defined sequence. <20 us at full power
100-240VAC, 50,60Hz, 1.4A

Standby - 3.3 W
1 band (GYR) - 24.4 W
2 bands (BLU & GYR) - 44.3 W
Full white irradiance (3 bands) - 56.4 W

77 mm (w) x 196 mm (d) x 162 mm(h) Weight 1.40 kg
88 mm(w) x 125 mm(d) x 37 mm(h) Weight 0.32 kg
167 mm(w) x 67 mm(d) x 35 mm(h) Weight 0.62 kg

PROMICAM PRO 3-5CP

5 MP Color CMOS USB 3 High Performance Digital Camera for a Wide Range of Applications

High Image Quality, Excellent Color Reproduction and Large Field of View

5 MP sensor with 2/3" diagonal provides high image quality, excellent color reproduction and large field of view.

Global Shutter

The sensor uses global shutter, which enables observation of fast-moving objects without image distortion.

High Live View Frame Rates Suitable for "Live Imaging" Applications

Modern USB 3.1 Gen 1 interface provides high live view frame rates, while CPU load remains low. Live view in full 5 MP resolution can be displayed with frame rate up to 38 fps, in Full HD (1920 x 1080 - using ROI feature) live view can be displayed with frame rate up to 90 fps.

High Sensitivity, High Dynamic Range and Low Noise Level

The used SONY® Pregius CMOS sensor brings high sensitivity, high dynamic range and very low noise level. Those parameters make the camera suitable also for low-light applications like darkfield or moderate light fluorescence.

Support in QuickPHOTO Programs

QuickPHOTO programs for digital photomicrography provide full control of camera's features, e. g.: live view display, manual and automatic exposure, white balance, black balance, gain, gamma, hue, shading correction, measurements in a live view and many more.

PROMICAM PRO 3-5CP is also supported by following extension SW modules for QuickPHOTO:

- **Deep Focus** EDF module
- Live stitching using **Image Stitching** module
- Automated HDR image acquisition using **HDR** module
- Real-time video recording using **RECORD IT** module

Main Features:

- 2/3" SONY® Pregius CMOS color sensor
- 5 MP sensor resolution
- High image quality
- Large field of view
- Excellent color reproduction
- Exposure time up to 4 s
- Global shutter
- High sensitivity, high dynamic range, low noise level
- Live view frame rate up to 38 fps in full 5 MP resolution
- USB 3.0 / USB 3.1 Gen 1 interface
- Screw lock USB connector
- Supported by QuickPHOTO programs

Suitable for Applications:

- Brightfield/Darkfield
- DIC
- Biology/Live Cell Imaging
- Moderate Light Fluorescence
- Gel Documentation
- Histology/Pathology/Cytology
- Metrology/Mineralogy/ Metallurgy/Geology
- Quality Control/Semiconductor Inspection
- Documentation and Archiving
- Education

Spectral Sensitivity:

Sensor Type	Sony® Pregius CMOS, color, global shutter
Sensor Size	2/3" (8.45 x 7.07 mm)
Sensor Aspect Ratio	6:5
Pixel Size	3.45 x 3.45 µm
Resolution	2448 x 2048 pixels (5 MP)
Software	QuickPHOTO in version 3.2 or higher (not included)
Image Resolution	2448 x 2048, 2448x 1376, 1920 x 1080 (Full HD), 1216 x 1024 pixels
Live View Resolution@Max. Frame Rate (fps)	2448 x 2048 @38 fps 2448 x 1376 (16:9 - ROI) @56fps 1920 x 1080 (Full-HD -ROI) @90 fps 1216 x 1024 (subsampling) @140 fps
Lower Resolutions	Subsampling, ROI
Exposure Times	1/40000 s (25 µs) - 4 s
Gain	1 – 251x
Exposure Mode	Automatic, automatic-interactive, fluorescence (SFL Auto), manual
White Balance	Automatic, automatic-regional, manual
Black Balance	Automatic-regional, manual
Interface	USB 3.0 / USB 3.1 Gen 1 (backwards compatible with USB 2.0)
USB connector	Micro B screw lock
Mount	C-mount/ CS-mount
Dimensions	43 x 29 x 29 mm
Weight	65 g
Tripod Mount	1/4" - 20
Recommended Microscope Coupler	0.63x or 1x C-mount
Compliances	CE certified, RoHS, WEEE, FCC
Included in the Box	PROMICAM PRO 3-5CP camera, 3 m USB 3.0 cable with lock screw connector
Processor	Intel® Core™ i3 / AMD RYZEN™ 3
RAM	2 GB
USB port	1x USB 3.0 port
Operating System	Microsoft® Windows® 7/8/8.1/10/11 (32bit or 64bit)
Processor	Intel® Core™ i5 / AMD RYZEN™ 5 or better
RAM	8 GB or more
USB port	1x USB 3.0 port
Operating System	Microsoft® Windows® 10/11 (64bit)

QuickPHOTO CAMERA 3.0

Systém pro digitální mikrofotografii, úpravu obrazu a měření

QuickPHOTO CAMERA 3.0

Program QuickPHOTO CAMERA 3.0 je určen pro záznam digitálního obrazu zejména z mikroskopů vybavených digitálními kamerami a fotoaparáty, k úpravám a ukládání pořízených snímků a měření. Živý obraz z mikroskopu zobrazený na monitoru počítače usnadňuje ostření a správné exponování snímků.

Program QuickPHOTO CAMERA 3.0 umožňuje řadu operací se snímky, např. měření délek, vkládání kalibrovaného měřítka, vkládání popisků a označování zajímavých míst. Pomocí funkcí pro časosběrné fotografování je možné snímky pořizovat automaticky v definovaném časovém intervalu.

Přehled hlavních funkcí a vlastností programu:

- snímání ze široké škály snímacích zařízení (digitální fotoaparáty, kamery)
- živý obraz na monitoru počítače (usnadňuje ostření a může být použit pro demonstrační účely)
- vkládání kalibrovaného měřítka, měření délek
- tabulka naměřených hodnot obsahuje také základní statistiky a umožňuje psaní poznámek a exportování naměřených hodnot do souboru formátu Microsoft® Excel®
- pokročilé funkce pro hromadné ukládání většího množství snímků
- možnost automatického ukládání snímků do složky ihned po pořízení
- podpora jednotek mezi-zvětšení (zoomovací jednotky, měniče zvětšení) a kódovaných revolverů pro odečet aktuálního zvětšení mikroskopu
- úpravy snímků, vyznačování zajímavých detailů a vkládání textových poznámek, psaní komentářů ke snímkům
- pokročilé funkce pro tisk snímků včetně interaktivního náhledu
- automatické pořizování snímků v definovaném časovém intervalu s možností řízení osvětlovačů a tvorby HD videosekvencí
- možnost pořizování snímků pomocí dálkové spouště
- možnost uzamčení kalibrací s ochranou heslem, ochrana kalibračních hodnot digitálním podpisem
- podpora práce na dvou monitorech
- přívětivé uživatelské rozhraní v českém jazyce

Funkce měření:

- měření délek (možnost volně pohybovat zobrazenou hodnotou ve snímku a měnit barvu a tloušťku čáry měřící úsečky)
- vkládání kalibrovaného měřítka (s možností přizpůsobit typ, velikost a barvu; vertikální či horizontální pozice)
- Naměřené hodnoty jsou uchovávány v přehledné tabulce s možností exportování do souboru formátu Microsoft® Excel®.
- Naměřené hodnoty mohou být uloženy přímo v souboru snímku, v případě uložení ve formátu JPEG nebo TIFF.

Snímání z digitálních fotoaparátů OLYMPUS®:

- živý obraz na monitoru počítače (s možností zobrazení na celou obrazovku)
- přímé ovládání funkcí fotoaparátu (kvalita snímku, citlivost, vyvážení bílé barvy, režim blesku, expoziční mód, korekce expozice, manuální ostření, manuální nastavení expozice, předsklopení zrcadla)
- pořizování snímků a jejich okamžitý přenos do počítače
- funkce korekce stínů pro odstranění nedostatků způsobených nerovnoměrným osvětlením
- možnost vkládání data a času pořízení přímo do snímku
- čtyři uživatelské profily pro rychlé nastavení fotoaparátu

QuickPHOTO CAMERA 3.0

Možnosti práce s obrazem

Snímky jsou ihned po pořízení automaticky přeneseny do počítače a připraveny ke zpracování. *Panel náhledů* dovoluje snadno přejít k práci s dalšími snímky. Okno *Navigátor* usnadňuje orientaci i ve zvětšených snímcích které se nevejdou celé na obrazovku.

nímky lze snadno upravovat pomocí následujících funkcí:

- ořízntutí snímku (velikost výřezu je možné definovat v pixelech µm nebo mm)
- otáčení snímku (o 90° po nebo proti směru hodinových ručiček)
- převracení snímku podél os
- změna rozměrů snímku
- úprava jasu a kontrastu
- úprava barevného vyvážení
- úprava histogramu
- filtry (zaostření, rozostření, negativ, černobílý snímek, mediánový filtr)
- vyvážení černé a bílé barvy
- označení zajímavých míst pomocí čar, šipek, kružnic, elips, obdélníků a kreslení od ruky
- vkládání textových poznámek

Všechny objekty vkládané do nímku (kresby, měření a popisky) jsou ukládány do samostatné vrstvy „nad snímkem" a lze je kdykoliv modifikovat (změna barvy a tloušťky čar, změna rozměrů a umístění objektů či jejich smazání), skrýt nebo celou vrstvu smazat. Program QuickPHOTO CAMERA 3.0 umožňuje vrátit zpět libovolný počet provedených operací (neomezené undo).

Pomocí funkce *Prezentace* lze z otevřených snímků vytvořit celoobrazovkovou prezentaci.

Automatické snímání v definovaném časovém intervalu:

Vestavěný modul *Časovač* umožňuje automatické pořizování snímků v nastavitelném časovém intervalu s možností ovládání osvětlovačů. Světlo může být rozsvíceno vždy jen na dobu nutnou pro pořízení snímku, aby nedocházelo k dlouhodobému nežádoucímu působení osvětlení na preparát.

Tvorba videosekvencí:

Modul *Tvorba videosekvencí*, který je standardní součástí programu, je určen pro vytváření HD videosouborů (s rozlišením až 1600x1200 pixelů) z pořízených časosběrných snímků. apříklad při zachycení série snímků pomalu se měnícího objektu lze pomocí modulu *Tvorba videosekvencí* vytvořit videosoubor, ve kterém bude pohyb zaznamenán ve zrychlené formě.

Snímání ze zdrojů analogového videosignálu:

Program QuickPHOTO CAMERA 3.0 je vybaven ovládacím panelem, který umožňuje pořizovat snímky také ze zdrojů analogového videosignálu. Je tak možné pořizovat snímky například z analogových kamer, videoendoskopických systémů, videorekordérů, DVD apod.

Podpora práce na dvou monitorech

Program QuickPHOTO CAMERA 3.0 podporuje dvoumonitorové pracovní stanice. Jeden monitor může být využit pro zobrazení hlavního okna programu, zatímco na druhém monitoru je zobrazen ovládací panel snímacího zařízení (například v celoobrazovkovém režimu).

Dálková spoušť

Dálková spoušť je volitelnou součástí příslušenství, která značně zvyšuje komfort při pořizování snímků. Pořízení snímku lze provést stiskem tlačítka dálkové spouště.

QuickPHOTO CAMERA 3.0

Minimální systémové požadavky:

- Jednojádrový procesor 2,4 GHz nebo vícejádrový procesor
- 1GB RAM
- CD-ROM
- 2x USB 2.0/3.0 port

Podporované operační systémy:

- Microsoft® Windows® XP(SP3)/Vista/7/8

Minimální rozlišení monitoru:

- 1024 x 768 obr. bodů

Podporovaná snímací zařízení:

Seznam aktuálně podporovaných zařízení najdete na stránkách *www.promicra.cz*.

FLUO+ Module

Software Module for Multi-Color Fluorescence Imaging

FLUO+ is an additional multi-color fluorescence imaging software module for QuickPHOTO programs. Up to 8 digital images acquired with different fluorescence filters can be composed into one multi-color image.

Functions Overview:

- Up to 8 digital images acquired with different fluorescence filters can be composed into one multi-color image
- Histogram and intensity of each of the fluorescence images can be adjusted independently
- X and Y shift correction for each image
- Color of each of the fluorescence images can be user defined
- Module settings can be saved to a file and loaded at any time

System Requirements:

- QuickPHOTO CAMERA, QuickPHOTO MICRO, QuickPHOTO INDUSTRIAL in version 2.2 or higher

PROMICRA, s.r.o. – Evropska 39 – 160 00 Prague 6 – Czech Republic
Phone: [redacted]@promicra.cz
www.promicra.com

RECORD IT Module

Software Module for QuickPHOTO Programs for Real-Time Video Recording from Digital and Analog Imaging Devices

RECORD IT is an additional software module for QuickPHOTO programs. It is intended for real-time video recording from digital and analog imaging devices.

Functions Overview:

- Real-time video recording from several types of digital cameras.
- Real-time video recording from analog cameras and other sources of analog video signal (e.g. from video endoscopic systems, ultrasonographs, VCRs, DVDs).
- Two-button foot switch can be used for video recording and image acquisition control.
- Automatic file name creation in case of multiple recordings.
- Automatic saving of created video files into selected folder.

List of supported imaging devices can be found on:

http://www.promicra.com/products-recordit.php

System Requirements:

- QuickPHOTO CAMERA, MICRO, Industrial in version 2.2 or higher.

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