



Brand name: HDC
Model Name: DF4L

Description: High-End 4K Microscope Camera with HDMI/USB Interface for digital documentation

Technical Specifications

Resolution (pixels)	3840 (H) x 2160 (V) = 8,3 Megapixel
Signal output interfaces	HDMI, USB 2.0
Sensor and pixel size	1/1,8" 2,0x2,0 µm
Sensor type	CMOS Colour, SONY IMX334(C)
Frame display rate at full resolution	30fps (HDMI), up to 20fps (USB)
Recording location	SD card (HDMI mode), PC (USB mode)
Cooling	Fanless cooling
External memory	SD card (removable)
Power supply	External, out:12V/1A DC In: 110-240V AC 50-60 Hz (EURO Standard)
Connection	c-mount
Exposure time (msec)	0,04 - 1000 (automatic and manual)
White balance	Auto, manual, auto with selected ROI (Region of Interest)
Image/Video Save Formats	Image: JPEG or TIFF (3840x2160) Video: MP4 H264/H265 encoded 30 fps
OS System requirements (for USB mode)	<ul style="list-style-type: none"> · Windows 10 (32/64bit) · Free USB port
System requirements (HDMI mode)	Monitor with HDMI input port (camera complies with HDMI 1.4 standard)
Functions in HDMI mode	Recording of photos and videos, digital zoom in/out, image mirroring, image and video gallery with playback capability direct from the camera to the monitor, live comparison of live view against stored image, measurements
Certifications/Declarations	CE, RoHS



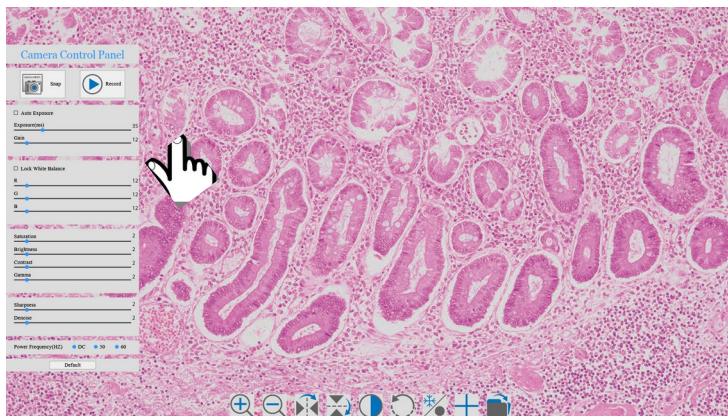
Physical Specifications

Dimensions (cm)	8,5 x 7,8 x 6,5
Weight (kg)	0,47 (camera body only - without box and cables)

Package Contents

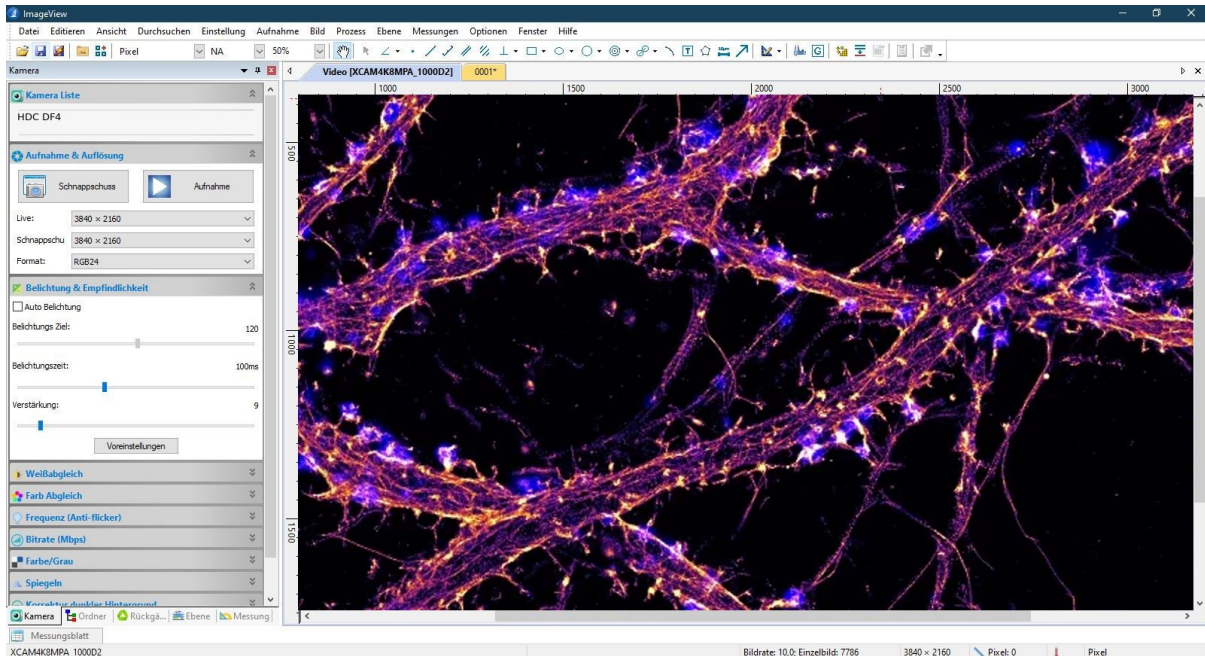
- camera
- power supply
- HDMI and USB 2.0 cable
- USB mouse
- Windows software ImageView with user guide (English)

Special Features



On Screen menu for camera control in HDMI mode - the user controls all the functions of this mode using a USB mouse which is connected directly on the USB port of the camera.

ImageView Software Functions



- User Interface Multi Language Support (German, English, French, Spanish, Italian, Polish etc.)
- Camera settings (exposure, gain, white balance, colour adjustment etc.)
- Image and Video Recording (jpg, png, tif, pcx, tga, jp2, j2k, dcm, webp, tft, dng, mp4, wmv, avi)
- Measurements (angle, line (2/3 points), radius, arc etc.)
- Standard Image Processing (rotate, crop, resize, histogram)
- Auto Image Sticking, Live Image Sticking
- Auto Capture (time lapse)
- EDF (extended depth of field)
- HDR
- Segmentation and Counting (5 methods)
- Denoise, Sharpen, Deinterlace
- Color composite
- etc.