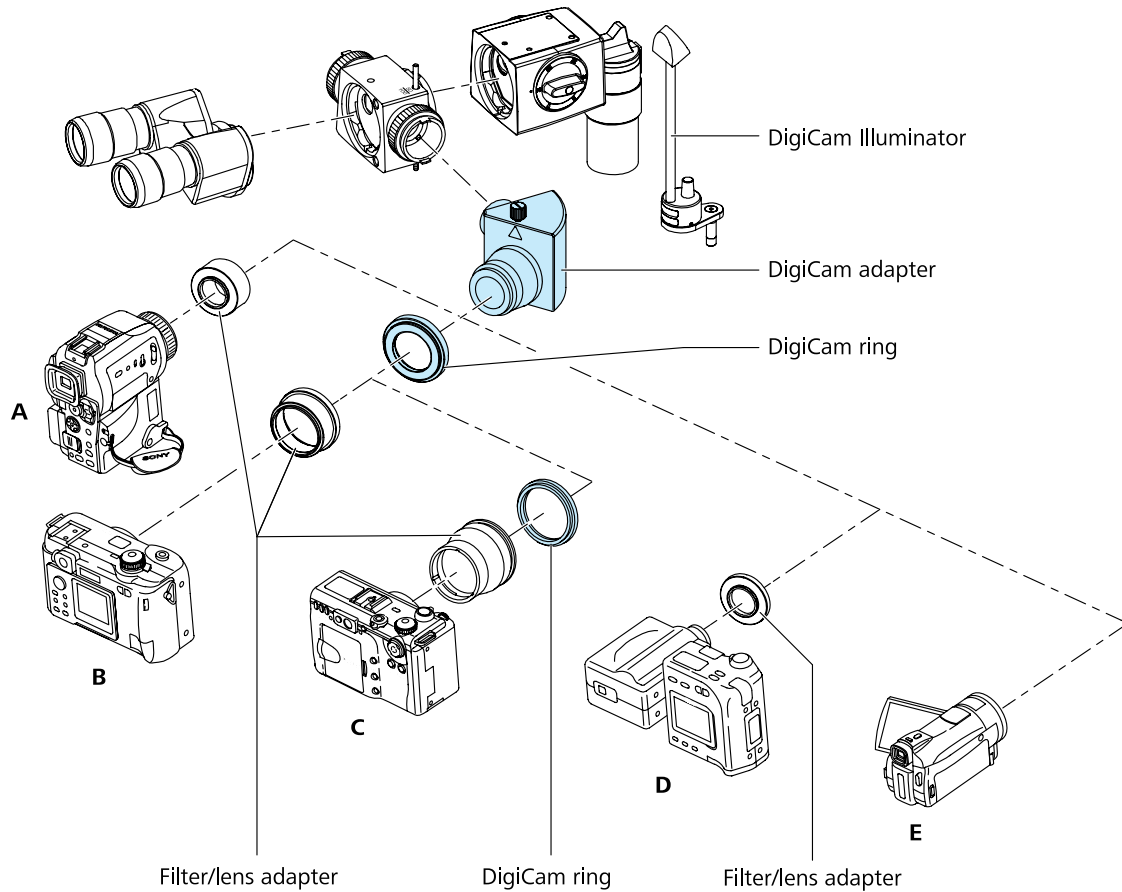


## Carl Zeiss Meditec DigiCam System

The Carl Zeiss Meditec DigiCam System enables digital cameras (without interchangeable lens) to be connected to slit lamps SL 120 and SL 130 and Carl Zeiss Meditec laser slit lamps.

### Overview



### Examples for adaptation of digital cameras with

A	B	C	D	E
Filter thread 30 mm*	Filter thread 45 mm*	External zoom*	Filter thread 28 mm*	Filter thread 37 mm*
		Filter/lens adapter 58 mm*		
Adapter ring 30 mm to 37 mm*	Adapter ring 45 mm to 52 mm*		Adapter ring 28 mm to 37 mm*	
	DigiCam ring 52/37	DigiCam ring 58/52		
		DigiCam ring 52/37		
DigiCam adapter (connection thread: 37 mm)				

\* Available only from specialist dealers

### Explanation

Digital camera	Essentially any camera with a filter thread can be connected.
Lens adapter	A lens adapter is required for cameras with an optical zoom which have an external travel path. The lens can move within this adapter during the zoom process without colliding with the connected accessories.
DigiCam adapter	The DigiCam adapter has a 37 mm thread connection. If the camera has a filter thread that differs from this, a suitable DigiCam ring or other adapter ring will be required.
DigiCam rings	Two DigiCam rings with thread connections of 52 mm and 58 mm are available, i.e. these DigiCam rings can be used to adapt cameras with filter threads of 52 mm or 58 mm.
DigiCam Illuminator	The purpose of the DigiCam Illuminator is to illuminate the slit periphery for slit images.

### Important advice for connecting digital cameras

The optical image quality of the following camera was tested with the DigiCam system on the **Carl Zeiss Meditec slit lamp** and is **strongly recommended!**

Camera manufacturer	Model	Additional accessories required (available from specialist dealers)
<b>Sony</b>	HDR-CX550VE	--

The optical image quality of the following cameras was not tested with the DigiCam system! They were only evaluated in terms of mechanical compatibility with the DigiCam system. Their optical aptitude must still be tested on the slit lamp. In some cases one or more adapters must be used in addition to the DigiCam system. These adapters must be purchase from a specialist dealer. This information was compiled on the basis of information supplied by third parties and is provided without warranty.

Camera manufacturer	Model	Additional accessories required (available from specialist dealers)
<b>Canon</b>	LEGRIA HF S11 LEGRIA HF M306 LEGRIA HF21	--
<b>Nikon</b>	No suitable camera currently available.	
<b>Sony</b>	HDR-XR155E	Adapter for 30 mm lens thread to connecting thread of DigiCam system (37 mm, 52 mm or 58 mm)
	HDR-CX550VE	--
	HDR-CX305E HDR-CX116E	Adapter for 30 mm lens thread to connecting thread of DigiCam system (37 mm, 52 mm or 58 mm)
	DSC-W270	VAD-WG lens adapter and adapter for 46 mm lens thread to connecting thread of DigiCam system (37 mm, 52 mm or 58 mm)

## Does my digital camera fit on the DigiCam system? How do I find a suitable camera?



### Important note

Even if a camera offers all the necessary mechanical attributes, its optical qualities should still be tested on a slit lamp! This is the only way to ensure optimum image results.

What do I need to take into account?	<input checked="" type="checkbox"/>	Why?
1. Select the manufacturer		If you favor a certain manufacturer or the camera is to be compatible with other equipment.
2. Select the camera type and consider the following: <ul style="list-style-type: none"> <li>– Lightweight and compact shape</li> <li>– Extremely short or hardly perceptible shutter release delay</li> </ul>	<input type="checkbox"/> <input type="checkbox"/>	<p>General: The quality of images and video sequences (e.g. resolution, recording time) is dependent upon the camera equipment.</p> <p>A lightweight and compact camera does not influence the properties and operation of the slit lamp.</p> <p>The camera captures the motif that is visible at the time of recording.</p>
3. Summary of technical data: <ul style="list-style-type: none"> <li>– Filter thread on lens: 37 mm, 52 mm or 58 mm</li> <li>– Flash can be switched off</li> <li>– Focus can be set to "infinite"</li> </ul>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<p>The DigiCam system has a connecting thread for 37 mm, 52 mm and 58 mm. If the camera has a different filter thread, adapter rings will be required.</p> <p>The flash prevents optimum images with the DigiCam system.</p> <p>The DigiCam adapter optical system is adjusted to "infinite".</p>
4. Examine the compatible camera accessories for: <ul style="list-style-type: none"> <li>– Remote control</li> <li>– Lens adapter as necessary</li> <li>– Filter adapter as necessary</li> </ul>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<p>Guaranteed blur-free images</p> <p>In many cameras with an optical zoom the lens has a specific external travel path. These cameras require a lens adapter in which the lens can move during the zoom procedure without colliding with connected accessories.</p> <p>Some camera manufacturers supply filter adapters for cameras without an integral filter thread This enables such cameras to be mechanically adapted to the DigiCam system.</p>

## How can I determine whether the selected camera will take good images together with the DigiCam system?

What do I need to do?	<input checked="" type="checkbox"/>	Why?
1. Mechanical connection of camera to the DigiCam adapter.	<input type="checkbox"/>	
2. Switch on the camera	<input type="checkbox"/>	
3. Make the following camera settings: <ul style="list-style-type: none"> <li>– Select "Photo" operating mode</li> <li>– Switch off the flash</li> <li>– Set zoom to wide angle</li> </ul>	<input type="checkbox"/>	
4. Assess the camera image: <ul style="list-style-type: none"> <li>– Set the camera with the DigiCam adapter attached against a light background</li> <li>– Does the image fill the format in the camera monitor?</li> <li>– Are the corners of the image likewise well-lit with zoom setting?</li> </ul>	<input type="checkbox"/>  <input type="checkbox"/>  <input type="checkbox"/>	No full-format camera image with the DigiCam adapter means that the camera is unsuitable!
5. If the camera image (Item 4) is satisfactory: <ul style="list-style-type: none"> <li>– Mount the DigiCam adapter incl. camera on the slit lamp</li> <li>– Use the eyepieces to focus on an object (the observer refraction must have been precisely compensated on the eyepiece diopter adjustment).</li> <li>– The monitor image should simultaneously be in focus.</li> <li>– Adjust the eyepiece image section as far as possible using the zoom setting.</li> <li>– Use the remote control to capture an image and save it.</li> </ul>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
6. Assess image quality on the computer: <ul style="list-style-type: none"> <li>– If the image quality is satisfactory for your purposes you may use this camera with the DigiCam system.</li> <li>– If you are not satisfied with the quality, we recommend the following camera, which has been tested by Carl Zeiss Meditec: HDR-CX550VE</li> </ul>	<input type="checkbox"/>  <input type="checkbox"/>	

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319300-9231-000\_AddGA02\_GB\_090211  
DigiCam Set  
Specifications subject to change