

**X71**



## Cutting-edge CMOS Technology for Repro-photography & Digitization

Supported by:



Federal Ministry  
for Economic Affairs  
and Energy

on the basis of a decision  
by the German Bundestag

# X71

## 71 MP CMOS Camera

**Cutting-edge technology for digitization made in Germany**

**High-Quality & High-Performance!**



The **X71** represents world-leading technology in modern digital cameras. Our CMOS sensor technology is considered as the key technology of the future, allowing high-resolution images with superior image quality, ease of use and incredible speed.

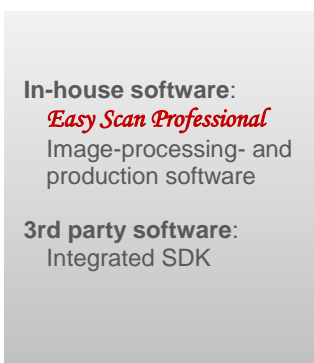
The modular concept in combination with original tables, repro stands, columns and lighting units provides you with the opportunity to create a customized solution according to the individual requirements of the application.

This way, a universal high-performance scanning system is created which is especially suitable for mobile use and flexible adaptation on miscellaneous requirements.

## CUSTOMIZING

**Integration** in existing reprographic systems

**Modular concept** for specific requirements



# X71

fast • robust • flexible



- **71 MP CMOS Sensor - Made in Germany -**
- **71 Mio. Micro-lens System**
- Temperature regulation, - control and -stabilization
- Precision optics from selected manufacturers
- Mounting adapters and high-speed adjustment for flexible, changing installation
- Suitable for mobile and stationary use
- Digital focus adjustment for varying distances
- Adjustable exposure time **0.0001-2.0 sec.**
- Up to **8200 dpi** resolution
- **Scanning speed 0.2 sec.** at 71 MP
- **Image transmission 0.4 sec.** at 71MP
- Image transmission rate **350 MByte/sec.** via USB 3.0 Interface
- Full-frame-, windowed- and video-mode
- TWAIN-, WIA - workflow integration
- Full programmable C++ interface (SDK)
- Electronic shutter for an extended lifespan
- Multi-shot functionality for highest quality
- Cascading of 2- / 3- / 4 camera systems
- Particularly accurate analysis of black-, white- and color for each pixel
- Color reproduction, resolution, noise, linearity according to **Metamorfoze, DFG, FADGI standard**
- Internal 16 bit optimized color analysis (no downstream color-correction profile) for: sRGB, Adobe RGB 1998, eciRGB v1/v2, Wide Gamut, RAW, Native

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## Hardware Specifications

<i>Sensor</i>	CMOS area sensor 71MP, electronic shutter									
<i>Sensor size</i>	10000 (H) x 7096 (V) effective active pixels									
<i>Chroma</i>	RGB Bayer color / grayscale									
<i>Dynamic range</i>	63 dB									
<i>Exposure time</i>	0,0001 – 2,0 sec									
<i>Speed</i>	0.2 sec. scan- / 0.4 sec. transfer time at 71 MP									
<i>Sensitivity</i>	0,15 A/W (@550nm)									
<i>Frame rate</i>	2,5 fps full color									
<i>Color depth</i>	Intern: 16 bit, Extern: 16 / 12 / 8 / 1 bit									
<i>Capture mode</i>	Single shot, full frame, windowed and video mode									
<i>Input requirement</i>	Single supply; 12V DC									
<i>Power consumption</i>	Operational peak: 6 Watts Stand-by: 1,8 Watt									
<i>Ventilator</i>	Nein; passive cooling concept									
<i>Interface</i>	USB 2.0/3.0 Standard (Hi-Speed/Super-Speed)									
<i>Standard lenses</i>	Schneider 45 ..... A4 to A0									
<i>Special lenses</i>	Special lenses from selected manufacturers (on request)									
<i>Dimensions</i>	105mm x 125mm x 28.5mm (W x D x H)									
<i>Weight</i>	500g, without adapter and lens									
<i>Environmental conditions</i>	<table border="0"> <tr> <td></td> <td>Temperature</td> <td>Humidity</td> </tr> <tr> <td>Operation:</td> <td>0°C – 45°C</td> <td>15% - 85% (not condensing)</td> </tr> <tr> <td>Storage:</td> <td>-20°C – 70°C</td> <td>10% - 85% (not condensing)</td> </tr> </table>		Temperature	Humidity	Operation:	0°C – 45°C	15% - 85% (not condensing)	Storage:	-20°C – 70°C	10% - 85% (not condensing)
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<i>RoHS</i>	Directive 2002/95/EC									

## Software Specifications

<i>Device driver</i>	Available for 32/64-bit Microsoft® Windows® 7/8/8.1 operating systems
<i>Basic software</i>	Fully controllable software application for camera adjustment, color calibration, status information, capturing and storage
<i>SDK</i>	Fully controllable interface; C++ communication library provided as DLL
<i>Imaging</i>	White-, black-, linear- and color correction Digital lens correction (lateral chromatic aberration and vignette) Different color-generation types (demosaicing) Median- and sharpening filters

03/15 subject to change without notice