

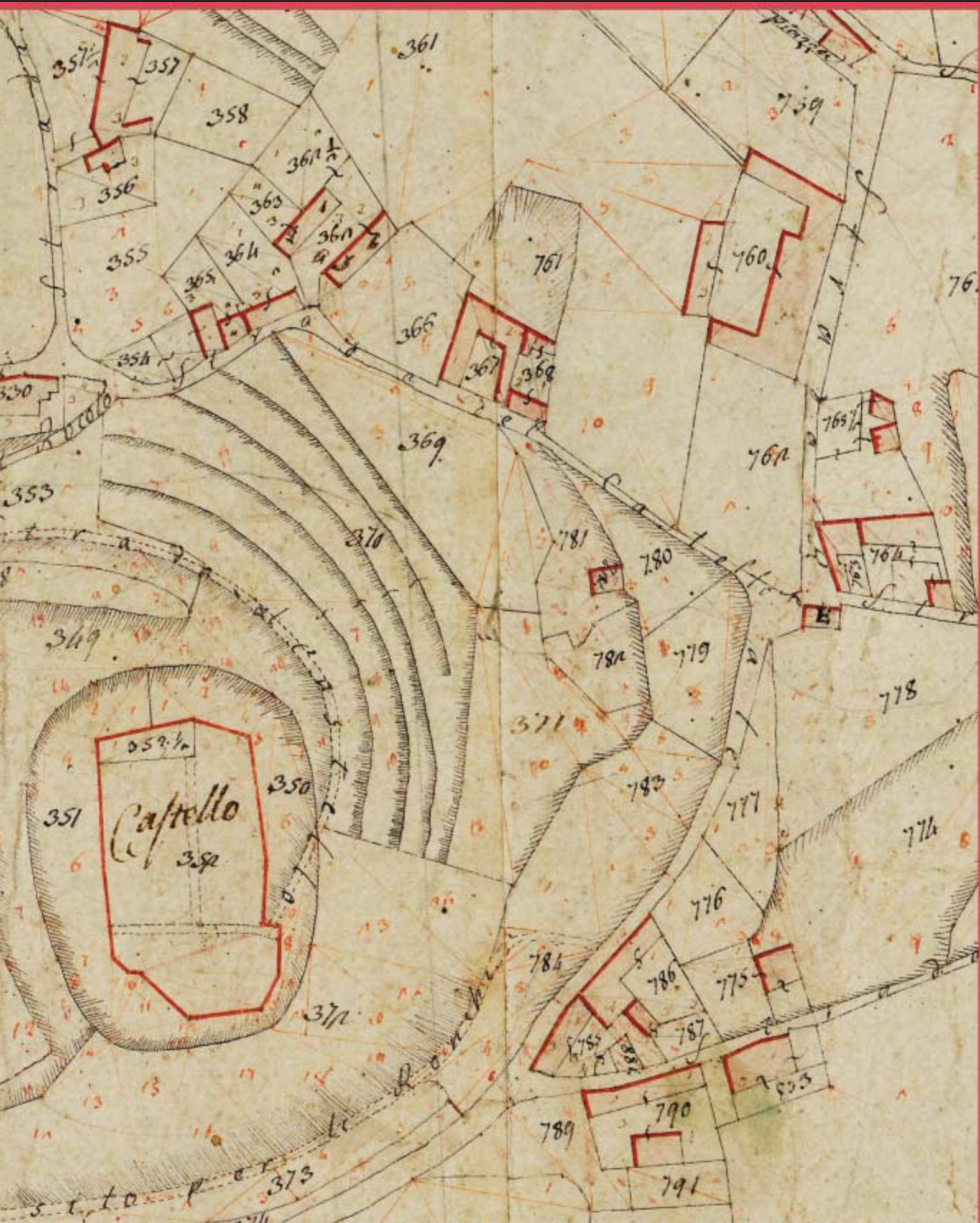
# DMC **Digital Macro Camera**



Over the GigaPixel !

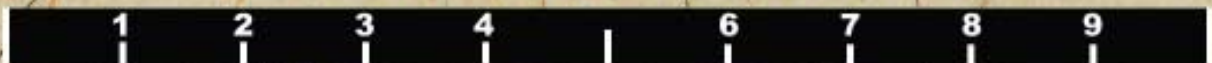
**METIS**





Printed at 160% of the original size  
Full print size is 406 x 260 cm

10 cm



# Digital Macro Camera 1015/C

The Digital Macro Camera (DMC) is a system for the direct, extremely-high-resolution photography of large subjects, with performance as yet unmatched by any analogic or digital system.

Thanks to a file containing "all the visual information" present in the original, the DMC makes it possible to have a "virtual copy" of the subject capable of replacing it in most cases.

The DMC applies the new principles – for which METIS applied for a patent in December 1998 – of free and dynamic scanning on two axes (X and Y). These principles will make a vast array of applications possible. Dynamic scanning allows for digital acquisition optimized for the subject's shape and size, yielding considerable advantages.

The DMC 1015/c system is an application at the highest level, capable of photographing a 1,200 m<sup>2</sup> subject and describing every millimetre.

DMC excels in reproductions: a non-interpolated 254 ppi shot of a 12 m<sup>2</sup> surface is described with a 3.3 GigaByte file and with 100 pixels (24 bit colour) for each square millimetre. Furthermore, even signs just two-three hundredths of a millimeter thick can be seen.

The DMC can achieve and exceed resolutions of 1,000 pixels per square millimetre!

The DMC 1015 was made possible thanks to METIS's long experience in digital imaging starting in 1975

## General Features

- Acquisition method : dynamic scanning over X,Y axes
- Max physical scan area : 254x381 mm (10x15 inch)
- Max scan file size : 4.158 GigaBytes (47,625 x 31,250 pixels)
- Optimal scan area with 470 mm lens : 250x305 mm
- Optimal scan file size : 3.33 GigaBytes (38,125 x 31,250 pixels)
- Image Sensor : RGB thrilinear Sony CCD powered by electronics specially designed for the DMC system
- Reproduction ratio : from infinity:1 to 4:1
- Acquisition resolution, non-interpolated, on the subject : up to 800 PPI



- Interchangeable optical system with precision tilt adjustment; standard focal length 470mm

- Automatic focus with very

- Dimensions (mm) : Height 765, Width 770, Length 710. Weight (Kg) : 165

- Power requirements : 230V 50/60HZ 3Amp (releasable at different settings upon request)

## Main software features

- Scanning at 16 bit (48 bit color depth)
- Scan mode RGB or B/W (grayscale)
- Direct scan to RAM
- Image rotation on the fly
- Lighting and gray balance tool
- Unsharp masking on the fly
- Fast image preview tool
- Dynamic crop

## Minimum computer requirements

- Intel Pentium III processor
- 4 GigaBytes RAM
- 18 GigaBytes Hard Drive
- Microsoft Windows 2000 Server OS

Subject size at different resolutions with optimal settings (470mm lens at 16-22)		
PPI	metres	m <sup>2</sup>
25*	38.7x31.7	1226
100	9.68x7.93	76.7
150	6.45x5.29	34.1
200	4.84x3.96	19.1
254**	3.81x3.12	11.9
300	3.22x2.64	8.5
400	2.42x1.98	4.8
508	1.90x1.56	2.9
800***	1.21x0.99	1.2

\* Outdoor application : 1 pixel/mm<sup>2</sup>  
\*\* 100 pixels per mm<sup>2</sup>  
\*\*\* 1000 pixels per mm<sup>2</sup>

METIS Systems srl - Via della Pisana 415 - 00163 Rome - Italy  
Tel. +39.06.6615.0066 - Fax +39.06.6614.1265 - e-mail : metis@metis-group.com

WEB : [www.metis-group.com](http://www.metis-group.com)