

Give routine a different taste

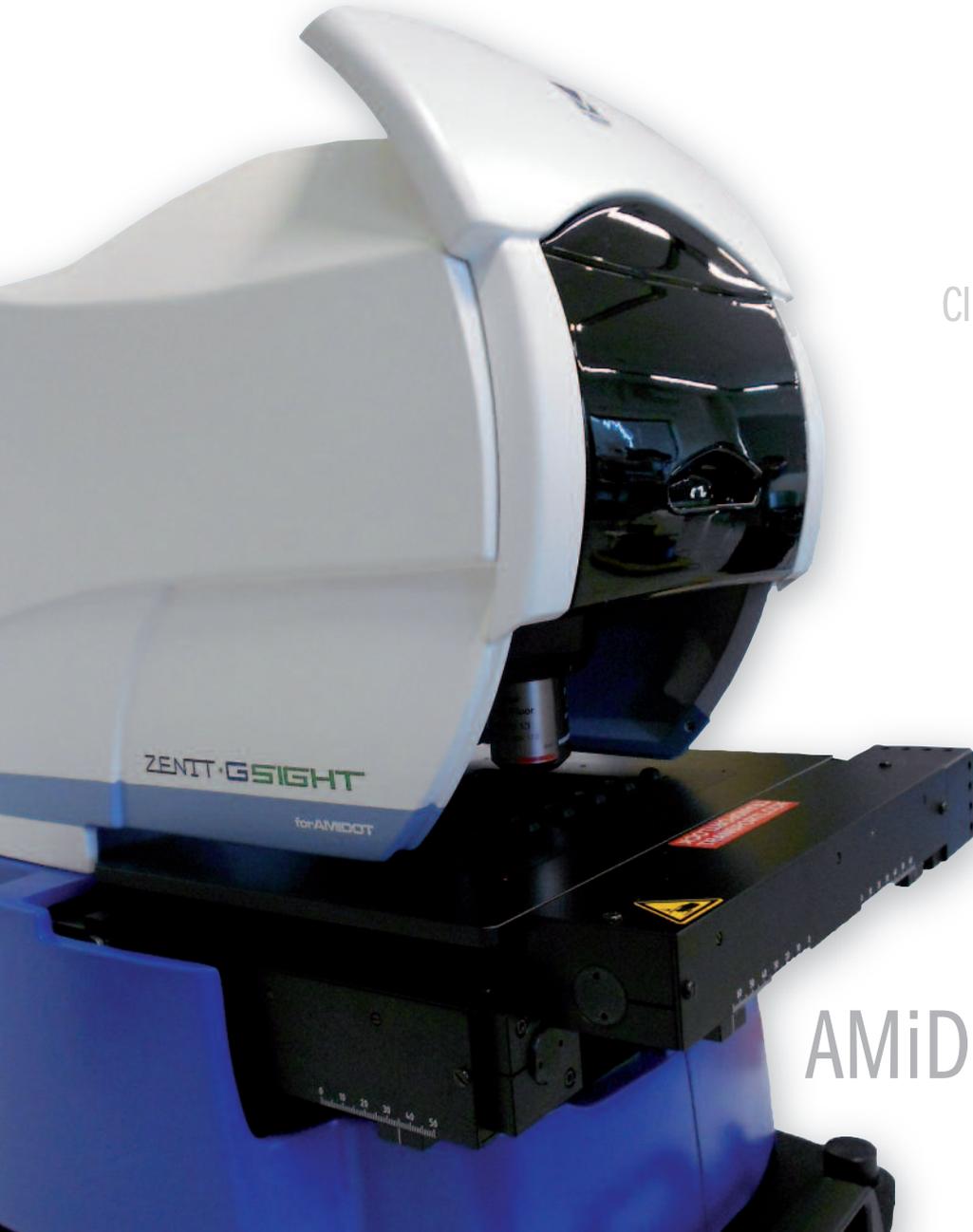


ZENIT.GSIGHT

Three models. Three targets. One high-quality standard



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Classic



AMiDot

Twice



Zenit G-Sight Systems: technology

The **screening for anti-nuclear antibodies (ANAs)** performed **on human epithelial (HEp-2) cells** by indirect immunofluorescence (IIF) tests is the **gold standard method in the diagnostic approach to systemic rheumatic disorders** recommended by both the European and the American guidelines.

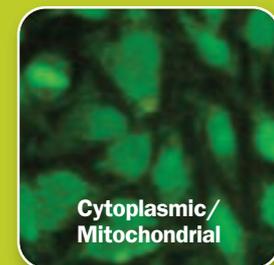
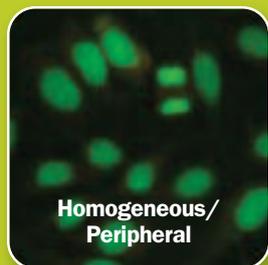
The need for standardized and reproducible evaluation of cell-based IIF assays that overcome the disadvantages of classic assay have guided autoimmunity laboratories on the road to automation.

The **Zenit G-Sight systems** from A. Menarini Diagnostics for image acquisition and interpretation of cell- or tissue-based IIF tests **are ideal for the automated serological diagnosis of autoimmune diseases**.

Components of each Zenit G-Sight compact benchtop system include:

- a state-of-the-art automated fluorescence microscope with highly focused LED light source, virtually maintenance free, generating little heat and not photobleaching FITC as fast as mercury lamps do
- a motorized scanning stage for substrate slides
- a highly sensitive CCD camera
- innovative software that manage and control the entire experimental workflow guaranteeing optimal image capture and processing, fully automated analysis of immunofluorescence signals and efficient data storage and management.

The system is capable to discriminate between positive/negative samples, to measure fluorescence intensity, and interpret and classify the main fluorescence patterns generated by ANA detection on HEp-2 cells:

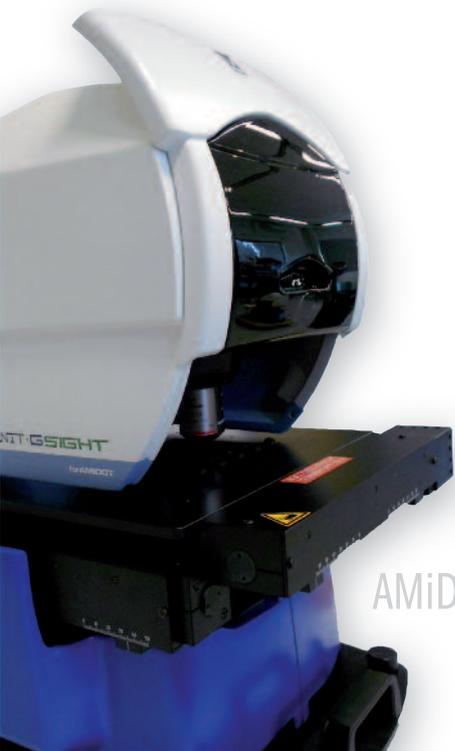


The availability of **Zenit G-Sight Twice, Zenit G-Sight Classic, Zenit G-Sight AMiDot** instruments with **different potential and cost** but sharing the same key hardware components and the same software **fulfills a variety of laboratory requirements** always **providing the highest accuracy** for identifying ANA-positive sera.



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Zenit G-Sight Systems: characteristics

Zenit G-Sight Twice: High performance, moderate cost, limited analytic autonomy

Conceived as an entry-level instrument for its relatively low cost (30-35% less than Zenit G-Sight Classic), **Zenit G-Sight Twice** has the same performance of the other instruments but less autonomy for the analysis: the motorized **scan stage holds 2 slides**. In case of high workload, the operator simply needs to load the slides more frequently.



Zenit G-Sight Classic*: Perfect for the daily routine with large sample numbers

Zenit G-Sight Classic is the prototype among the Zenit G-Sight Systems. It is a cost-effective tool for laboratories with a heavy workload. Its motorized **scan stage holds up to 8 slides** maximizing efficiency and optimizing human resources.



Zenit G-Sight AMiDot*: The top of the range for Ag typing after IIF screening

A positive ANA result is used as an initial stepping stone for detecting the specific autoantibodies underlying the IIF reaction using micro-array (From 2013 Euromedlab Congress - abstract EW080). **Zenit G-Sight AMiDot** is the only existing instrument, that **can read both IIF and AMiDot slides** combining the high screening efficiency of Zenit G-Sight with micro-array technology.

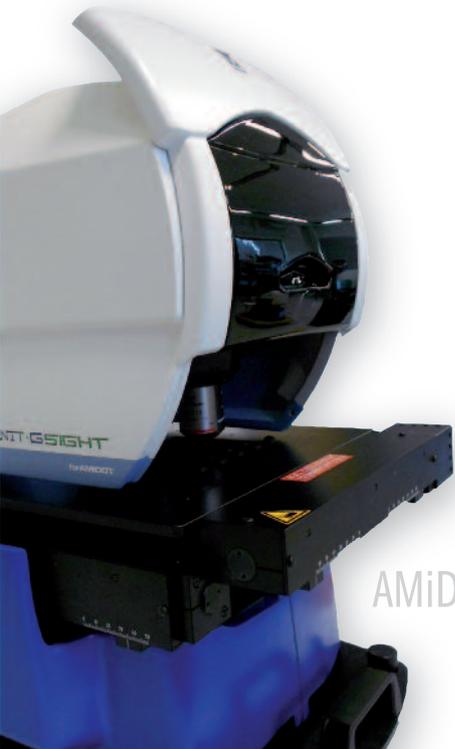


*For further technical information, please refer to the dedicated brochure



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Classic



AMiDot

Twice



Zenit G-Sight Systems: technical features and specifications

Technical specifications	Zenit G-Sight Twice	Zenit G-Sight Classic	Zenit G-Sight AMiDot
Objectives	4x, 40x	4x, 40x	4x, 40x
Optional objectives	Five remaining available positions	Five remaining available positions	Five remaining available positions
Scan stage	for accommodating objectives (max. of 7)	for accommodating objectives (max. of 7)	for accommodating objectives (max. of 7)
Scanning speed	20x for tissues Holds up to 2 IIF slides - 5-6 minutes for each well - About 1 minute for 5 images	20x for tissues Holds up to 8 IIF slides - 5-6 minutes for each well - About 1 minute for 5 images	20x for tissues Holds up to 8 IIF/AMiDot slides IIF slides - 5-6 minutes for each well - About 1 minute for 5 images AMiDot slides - Read time: less than 30 seconds for each well
Illumination	LED	LED	LED
Type of compression	Standard JPEG-2000	Standard JPEG-2000	IIF slides: Standard JPEG-2000
Compression level	About 50MB per well	About 50MB per well	IIF slides: About 50MB per well
Environmental setting			
<i>Work session</i>			
Temperature	0-40 °C	0-40 °C	0-40 °C
Humidity	85% RH max. (without condensation)	85% RH max. (without condensation)	85% RH max. (without condensation)
<i>Transport/storage</i>			
Temperature	from -20 to 60 °C	from -20 to 60 °C	from -20 to 60 °C
Humidity	90% RH max. (without condensation)	90% RH max. (without condensation)	90% RH max. (without condensation)
<i>Power supply</i>			
Entry level	AC 110-120 V or 220-240 V 50-60 Hz	AC 110-120 V or 220-240 V 50-60 Hz	AC 110-120 V or 220-240 V 50-60 Hz
Physical characteristics			
Microscope	Dimensions: L 50 cm x H 50 cm x W 45 cm Weight: 30 kg	Dimensions: L 40 cm x H 60 cm x W 60 cm Weight: 40 kg	Dimensions: L 40 cm x H 60 cm x W 60 cm Weight: 40 kg
Elaboration unit	Dimensions: L 17 cm x H 45 cm x W 45 cm Weight: 15 kg	Dimensions: L 21 cm x H 46 cm x W 52 cm Weight: 20 kg	Dimensions: L 21 cm x H 46 cm x W 52 cm Weight: 20 kg

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