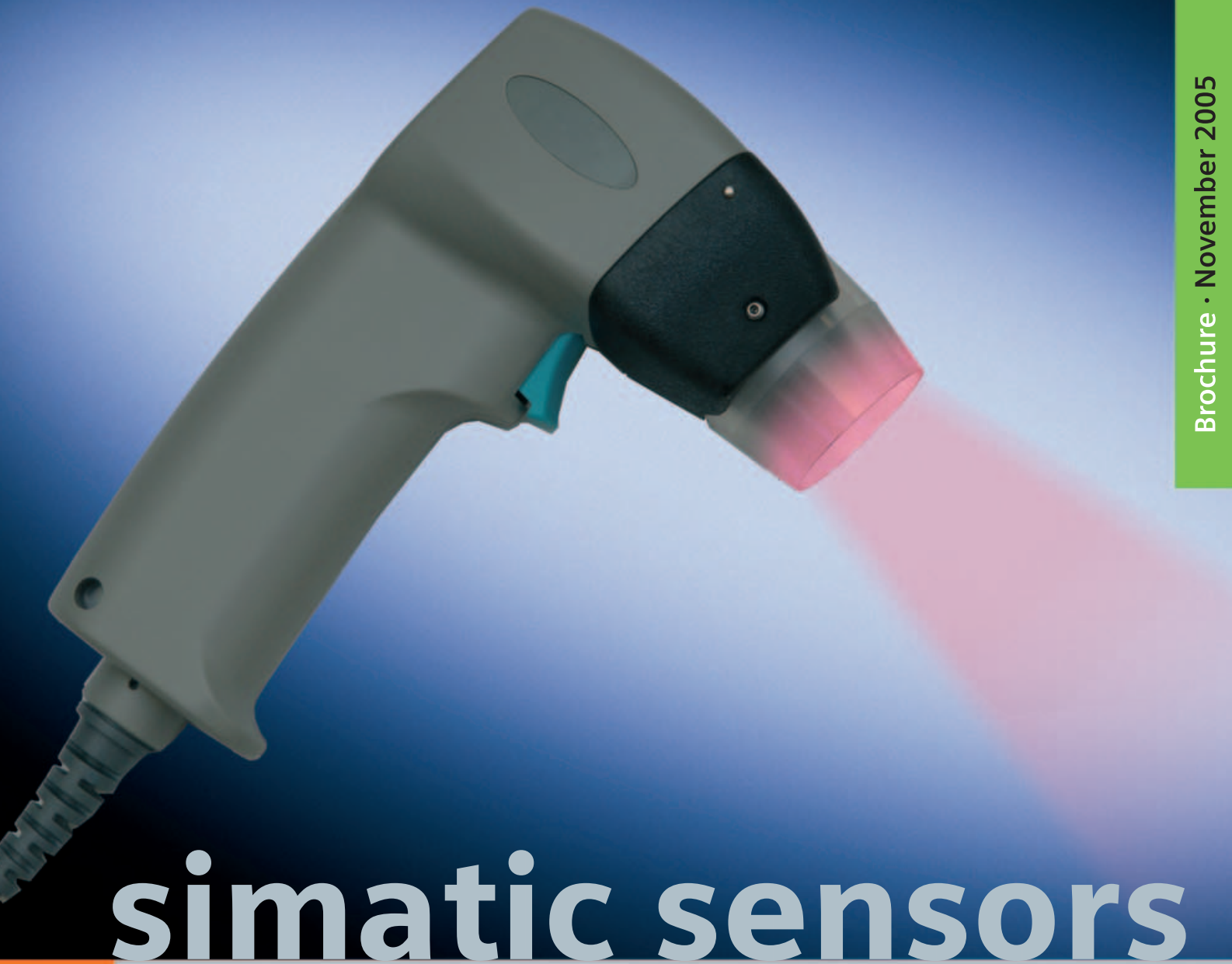


SIMATIC HawkEye 50T/51T –

High-performance hand-held
2D direct part mark readers



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SIEMENS

SIMATIC HawkEye 50T/51T

High-performance hand-held 2D direct part mark readers

The SIMATIC HawkEye 50T/51T are high-performance, high-resolution readers for low-contrast two dimensional (2-D) data matrix direct part marks (DPMs). They incorporate advanced video image processing and illumination technology to read symbols on a variety of surfaces that have been created by dot peen, laser, or inkjet.

The hand-held readers feature the LytePype™ illumination system that delivers superior performance for DPM reading and highly reliable read rates. The HawkEye 50T /51T are contact or near contact readers, and the LytePype guides the operator to position the reader for a simple point-and-shoot operation.

The hand-held readers provide a comprehensive set of programmable features that can be configured to address any data collection application. Setup is simple, and performed via the Graphical User Interface PC application program through the serial interface port or by reading special Data Matrix codes supplied with the unit.

The **SIMATIC HawkEye 50T** is designed to read DPMs with cell sizes as small as 0.004" (0.10 mm), and an overall symbol size of up to 0,75" x 0,75" (19mm x 19mm).

The **SIMATIC HawkEye 51T** is designed to read DPMs with cell sizes as small as 0.006" (0.15 mm), and overall symbol size of up to 1,4" x 1,4" (36mm x 36mm).

Highlights

- Decodes hard to read low contrast data matrix codes made by dot peen, laser or ink-jet
- Reading of a broad variety of direct part marks without any parameter adjustments
- LytePype illumination system enhances readability of low-contrast marks
- High-resolution imager for reading very small codes
- High-performance processor for high decoding speed and very robust reading





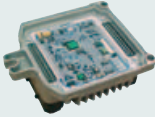







SIMATIC Hawkeye 50T



SIMATIC Hawkeye 51T

SIMATIC HawkEye 50T/51T

Wide range of applications in many industries

Industry	Application
Automotive	
	Dot peen mark on various automotive power train components (cylinder heads, cylinder blocks, manifolds, etc.)
	Laser marks on various automotive power train components (camshafts, crankshafts, pistons, connecting rods, transmission components, etc.)
	Laser marks on automotive electronics components, printed circuit boards, or enclosures
Aerospace	
	Dot peen marks on gas turbine blades
	Dot peen marks on various aerospace alloy engine parts
Medical Devices	
	Laser marks on pacemakers and other implantable devices
	Laser marks on various medical device components and enclosures
Electronics	
	Laser marks on ESD sensitive hard drive components
	Laser marks on printed circuit boards and flex circuits
Semiconductor	
	Laser mark on packaged semiconductor devices, heat sinks or heat spreaders

SIMATIC HawkEye 50T/51T

Technology Overview

	SIMATIC HawkEye 50T	SIMATIC HawkEye 51T
Imaging characteristics		
Minimum Code element Size	0.004" (0.10 mm)	0.006" (0.15 mm)
Minimum Contrast	20% at 660 nm	
Field of View	0.5" x 0.5" (13 x 13 mm) at contact 0.75" x 0.75" (19 x 19 mm) at 1" (25 mm)	0.75" x 0.75" (19 x 19 mm) at 0.125" (3 mm) 1.4" x 1.4" (36 x 36 mm) at 2" (51 mm)
Working Distance (Nominal)	0" (0 mm) 1" (25 mm)	0.125" (3 mm) 2" (51 mm)
Depth of Field	Up to 2" (51 mm)	
Sensor Resolution	1024 x 1024 Pixels	
Illumination options	<ul style="list-style-type: none"> ■ Diffused BrightField LytePype - Suitable for most applications with dot peen, laser and ink jet marks ■ DarkField LytePype - May be required for very low contrast laser marks or marks on a mirror-like surface 	
Interface		
Integrated interface	RS-232 with baud rates up to 115.2 Kbps	
Configuration	Simple graphical user interface for image upload and basic setup supported under Windows XP/2000/98. Also by decoding special setup codes provided with the unit.	
General data		
Power Requirements	AC Adapter 100-250 VAC, 0.5A 50/60 Hz input, (Use with PS-50 AC Adapter) 12 V at 250 mA avg. (1250 mA peak output)	AC Adapter 100-250 VAC, 0.5A 50/60 Hz input, (Use with PS-50 AC Adapter) 12 V at 250 mA avg. (1700 mA peak output)
Decode Capability	2D Data Matrix codes	
Operating Temperature	32° F to 104° F (0° C to 40° C)	
Storage Temperature	-4° F to 149° F (-20° C to 65° C)	
Humidity	Up to 95%, non-condensing	
Electrical Safety	EN 61010 pending approval	
EMI/RFI	CE, EN 61326:1998 Class A	
Dimensions	7.0" L x 2.4" W x 4.5" D (17.78 cm L x 6.10 cm W x 11.43 cm D)	

The information provided in this brochure contains descriptions or characteristics of performance which in case of actual use do not always apply as described or which may change as a result of further development of the products.

An obligation to provide the respective characteristics shall only exist if expressly agreed in the terms of contract. Availability and technical specifications are subject to change without notice.

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