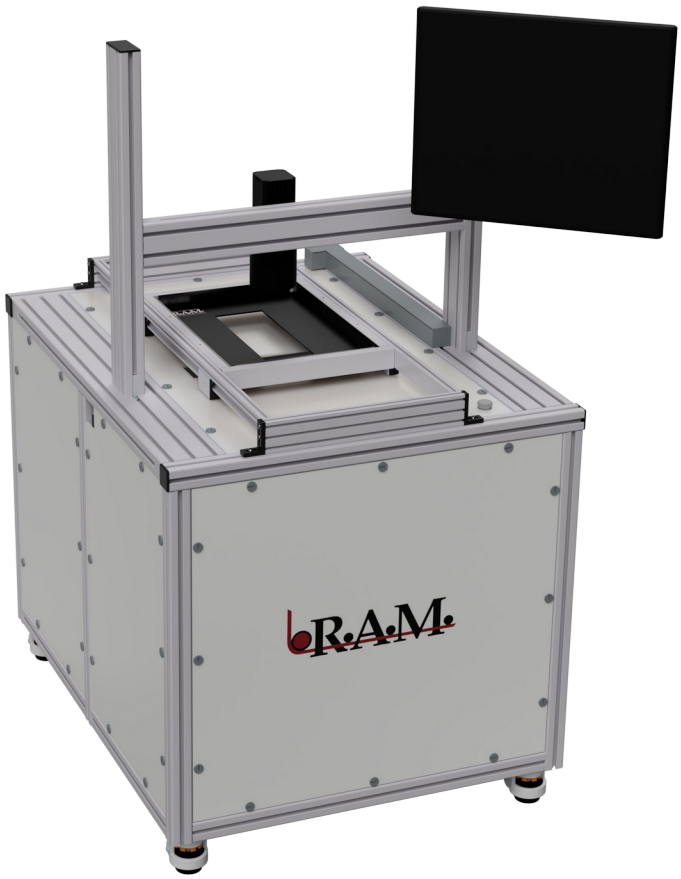
ITG 500 – Bench Analyser

LABORATORY BENCH FOR FILM INSPECTION

R.A.M. Realtime Application Measurement GmbH



PRECISION IN LABORATORY SURFACE INSPECTION

The ITG 500 – Bench Analyser is designed as a laboratory bench. It detects, categorizes and documents optical defects in film samples – transparent or opaque – in DIN A4 or DIN A3 format, ensuring a comprehensive, reproducible analysis.

Key Features

- **Four lighting modes:** Transmitted light for transparent and opaque films, reflected light for coated films, dark-field aperture for gel specks in transparent films, and combined lighting.
- **Comprehensive defect detection:** Gel specks, gels, burn marks, fish-eyes, contamination, wrinkles, holes and flies are detected and classified automatically and documented with a photo of each defect.
- **Flexible classification:** Size and type classifiers can be combined as required; classifier lists can be saved as templates and exchanged between systems.
- **Single scan or multi-sample:** Several samples can be combined in one roll report and evaluated together.
- **Easy operation:** Operation via CAMEN on the touchscreen with on-screen keyboard; recipes set up the camera automatically when loaded.
- **Data management:** Local storage in an internal SQL database; network connection and customizable reports via the vSTAT module.

TECHNICAL SPECIFICATIONS

Category	Property	Specifications
General	Machine dimensions (L × W × H)	1,005 × 885 × 1,590 mm
	Weight	approx. 100 kg
	Sample size	DIN A4 / DIN A3; measuring window 180 mm or 100 mm
	Inspection width	Adjustable, centre position freely selectable
	Sample acquisition	Single scan or multi-sample
	Installation	By the customer (“Inspection to go”)
Software	CAMEN	Version 12
	vSTAT	Version 1 (internal SQL database)
Camera	Interface	GigE Vision
	Resolution	4K; alternatively 2K, 6K, 8K or 12K
LED	Length	500 mm
	Illuminance	up to 500 000 lx
IPC	Main memory (RAM)	16 GB
	SSD	1 TB
Environment & installation site	Operating temperature	0–45 °C
	Humidity	5–95 % (non-condensing)
	Site requirements	Flat, load-bearing, clean and dry; indoor installation only.
Electrical supply	Voltage & frequency	230 V · 50 Hz · 1~
	Power consumption	500 W
	Connection type	IEC power connector
Communication	Network	RJ45 Ethernet connection (industrial network, segregated segment recommended)
	Data storage	Stored locally in an internal SQL database; reports via the vSTAT module
	Operation	Touchscreen with on-screen keyboard; mouse and keyboard can be connected
Options	Options	Longfield lamp LL 500 reflected light · opacity and haze measurement

Conformity and documentation

The system is Class A equipment in accordance with EN 55011 and EN IEC 61000-6-4. It is intended for industrial electromagnetic environments and is not intended for use in residential environments.

The system bears the CE marking and conforms to Directive 2006/42/EC (machinery), Directive 2014/30/EU (electromagnetic compatibility), Directive 2011/65/EU (RoHS) and Directive 2012/19/EU (WEEE).

Supplied documentation: operating instructions MAN-ITG500BENCH-EN-001, CAMEN user manual MAN-CAMEN-EN-001 and vSTAT user manual MAN-VSTAT-EN-001.

All data refer to the standard configuration. Values are nominal unless a tolerance is stated. Subject to technical change without notice; this datasheet is not a guarantee of properties.

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