

Model 301 Digital Densitometer

Provides Accurate QA of Your Film Processor

The end product of your x-ray, microfilm or photographic processing equipment is only as good as the quality control techniques that you use. The Model 301 densitometer is designed to help you keep your film processor producing optimum results.

This densitometer will detect variations in film density far more subtle than can be seen by the naked eye. Its wide measurement range allows you to determine base fog and accurately determine densities up to 5D.

A new optional feature has been added to the Model 301 - a serial RS-232 output. Now you can connect it to a serial input printer or an IBM-compatible computer. This provides a convenient record or an opportunity to use a computer to calculate the data from a step wedge.

Convenient Operation

The Model 301 is easy to use. Measurements are made on a push-and-read basis. The display consists of large LED numerals which can be read easily in bright or dim light. Internal memory and the null button allow the operator to make comparative density measurements across a piece of film.

Other quality features include a lighted work table, simple calibration procedure and rugged construction. The densitometer will remain in proper alignment even though it may be picked up by the arm.

The Model 301 is UL-listed and is standards-traceable through NIST. This is probably the most widely-accepted and used densitometer for medical and industrial x-ray requirements and in the micrographic industry.



Features:

- ▶ Easy-to-read display: Large half-inch LED numeric display for easy reading and fewer errors
- ▶ Lighted Table: Simplifies location of image areas to measure
- ▶ Rugged Construction: Proven in oil field use
- ▶ Convenient service: Modular construction allows rapid replacement of lamps and easy access to electronic circuits

Specifications

Display:	3-digit LED
Resolution:	0.01 D
Measuring Range:	0 - 5.00 D with 2 and 3 mm apertures 4.00 D with 1 mm aperture
Accuracy:	± 0.02 D
Repeatability:	± 0.01 D
Depth of throat:	7 in (17.8 cm)
Null drift:	± 0.01 D typical, ± 0.03 D maximum
Scale factor stability:	± 1% per 6 months
Warm-up time:	60 seconds
Operating temperature: ..	10 - 40°C (50 - 104°F)
Power requirements:	301: 100 - 130 VAC, 60 Hz 301X: 200 - 240 VAC, 50 Hz
Dimensions:	
Height:	13.3 cm (5.25 in)
Width:	26 cm (10.25 in)
Length:	38 cm (15 in)
Weight:	3.9 kg (8.5 lbs)
Warranty:	1 year limited warranty (bulb excluded)

Options

301-RS	Model 301 with RS-232 communication port
301-21	Lamp assembly
301-27	5-step certified wedge
319-40-005	0.5 mm aperture (ser. #5480 or higher)
301-14-005	0.5 mm aperture (ser. #2479 or lower)

