Nikon

"self-compensating" thru-the-lens exposure control with the Nikon F PHOTOMIC TN "center-weighted" meter/finder system

With the Photomic TN, the Nikon F once again demonstrates its singular ability to defy obsolescence. For the TN is not only the most advanced thru-the-lens meter system available today — it is interchangeable with all other Nikon finders and thus can transform the oldest Nikon into the most modern of slr's.

The most significant advantage of the Photomic TN stems from its "center-weighted" response which enables it to provide correct exposure at all times, even in situations that baffle other thru-the-lens meters.

The TN measures the brightness of the entire finder screen. But about 60% of its sensitivity is concentrated in a 12mm diameter circle equal to about 1/7th of the screen area. This peak sensitivity area coincides with the circular outline in the center of most Nikon F screens. By virtue of this "center-weighted" response, the Photomic TN tends to compensate automatically for marked brightness differences between central subject area and surrounding area, as well as for the natural fall-off in brightness towards the edges of the screen. Readings are equally reliable whether the camera is held in horizontal or vertical position.

The Photomic TN is cross-coupled to aperture and shutter speed controls. While retaining the full advantages of automatic diaphragm action, it also permits "stopped-down" readings when closeup extensions are used and with non-automatic lenses. It fits all cameras that accept the Photomic T. Older Nikon F bodies may require slight adaptation.

FEATURES

Measures subject brightness on viewing screen Two CdS cells, located in prism housing, read brightness of scene on viewing screen, where image is in focus. Each cell is mounted behind a directional optical system comprising right-angle prism, aspheric lens element and fixed aperture diaphragm.

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"Center-weighted" response TN meter system receives about 60% of its exposure information from 12mm diameter area in center of screen. From this central area outward, meter sensitivity diminishes rapidly toward screen edges. Effect is virtually automatic compensation for brightness differences between central subject and surrounding area, also for natural brightness fall-off towards screen edges occuring especially with wide-angle lenses.

Cross-coupled Either the aperture ring or the shutter speed dial can be used to center meter needle. Auto-Nikkor lenses remain at full aperture during exposure setting, except when bellows or extension tubes are interposed.

Battery test button Provides check on battery condition through meter needle.

Exposure control through finder Meter needle is visible in viewfinder as well as in window on top of finder housing. Needle centers when camera is set for correct exposure.



PHOTOMIC TN SPECIFICATIONS

Measuring Range	LV 2 to 17 with f1.4 lens	based on
	LV 1.5 to 16.5 with f1.2 lens	ASA 100
Lens Apertures	f1.2 to f45	
Shutter Speeds	2 seconds to 1/1000th	
Film Ratings	ASA 20 to 6400	
Batteries	2 mercury 1.3V (Mallory PX-13 or equivalent)	

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