

Nikon

Consumer Information Sheet—July 1978

AI, ADR WHAT IT IS, AND PROCEDURES FOR HAVING AUTO-NIKKOR LENSES MODIFIED

AUTOMATIC MAXIMUM APERTURE INDEXING (AI)—WHAT IT IS!

A new camera meter/lens coupling system which considerably simplifies the picture-taking process, including easier lens mounting and interchange. Called **Automatic Maximum Aperture Indexing** or **AI** for short, this system has been applied to the following Nikon cameras (F2A photomic, F2AS photomic, FE, FM, EL2, and Nikkormat FT3) and AI Nikkor lenses, as well as to the new PK and PN-series extension rings, **without changing the traditional Nikon bayonet mount**. This ensures that similar, earlier, Nikon equipment, including interchangeable viewfinders and built-in meters, are **not** rendered obsolete. In fact, owners of earlier Nikkor lenses, in particular, can take advantage of the benefits of the new AI coupling system by having most such lenses modified.

WHAT IS ADR?

ADR stands for **Aperture-Direct-Reading**. When an AI Nikkor lens is used with the Nikon F2A photomic, F2AS photomic, FE or FM cameras, the aperture in use is shown in the viewfinder via a direct readout from the secondary aperture scale at the rear of the lens.

CAN AI LENSES BE USED WITH EARLIER NIKON AND NIKKORMAT CAMERAS?

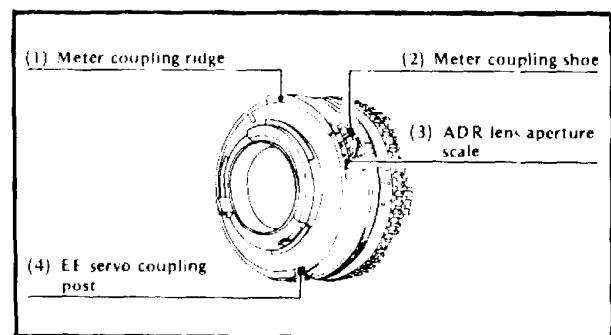
Yes. The time-tested Nikon bayonet mount remains unchanged. When an AI lens is used on an earlier model Nikon SLR or Nikkormat body, it will mount and operate in the same way as a meter-coupled non-AI Nikkor lens.

CAN LENSES WITHOUT AI BE USED WITH THE NEW NIKON AI CAMERAS?

Yes, Nikkor lenses without AI can be used with the new AI cameras by employing stop-down metering (in the same manner that any non-meter coupled lens would be used). And, almost all Auto-Nikkor lenses not more than 10 years old can be modified to provide the auto-indexing and full-aperture metering features. (Refer to the AI Modification Chart.)

WHAT IS A NIKKOR LENS AI MODIFICATION?

Most Nikkor lenses with an automatic diaphragm and a meter coupling shoe, dating to as far back as approximately 10 years, can now be modified for AI operation. Like the new AI-type Nikkor lenses, modified Nikkor lenses will have the following features: (1) **meter coupling ridge** to enable automatic indexing of the lens' maximum aperture with the meter of any AI-type camera for full-aperture exposure measurement; (2) **meter coupling shoe** to enable full-aperture exposure measurement with any earlier non-AI-type Nikon or Nikkormat cameras. In this case, manual indexing is required as before; (3) **ADR lens aperture scale** to enable aperture-direct-readout (ADR) of the precise lens aperture set in the viewfinder of the new Nikon F2A Photomic, Nikon F2AS Photomic, Nikon FM, and Nikon FE; and (4) **EE servo coupling post** to enable EE servo-controlled metering with a Nikon F2AS Photomic equipped with the DS-12 EE Aperture Control Unit.



(NOTE: Each of the new AI camera's metering systems contains a meter-coupling lever which must be locked up to permit exposure measurement via the stop-down method. Should a lens without AI or any non-meter-coupled lens (of any brand) be forced onto the camera when the coupling lever is not locked up, damage can result. The instruction book provided with each camera gives details of procedures for stop-down metering.)