

Nikon 70 Service Manual

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Nikon 70 Service Manual Specifications - M2 - VBA10401-R.3623.A Autofocus Detection range 1 +19 EV (ISO 100 at 20 C/68 F) AF-area mode Single-area AF, dynamic-area AF, dynamic-area AF with closest subject priority Focus lock Focus can be locked by pressing shutter-release button halfway (single-servo AF) or by pressing AE-L/AF-L button TTL phase detection by Nikon Multi-CAM900 autofocus module with AF-assist illuminator (range approximately 0.53.0 m / 18910) Exposure Metering Three-mode through-the-lens (TTL) exposure metering Matrix 3D color matrix metering (type G and D lenses); color matrix metering (other CPU lenses); metering performed by 1,005-pixel RGB sensor Center-weighted Weight of 75 given to 6, 8, 10, or 12-mm circle in center of frame Spot Meters 2.3-mm circle (about 1 of frame) centered on active focus area Range(ISO 100 equivalent, f/1.4 lens, 20 C/68 F) 0 20 EV (3D color matrix or center-weighted metering) 3 20 EV (spot metering) Exposure meter coupling CPU coupling Exposure control Operating mode Digital Vari-Program (auto,portrait,landscape,close up,sports,night landscape,night portrait), programmed auto (P) with flexible program; shutter-priority auto (S); aperture priority auto (A); manual (M) Exposure compensation 5 +5 EV in increments of 1/3 or 12 EV Bracketing Exposure and / or flash bracketing (23 exposures in increments of 1/3 or 12 EV) Exposure lock Luminosity locked at detected value with AE-L/AF-L button Shutter Speed 30 1/8000 s in steps of 1/3 or 12 EV, bulb, remote Combined mechanical and CCD electronic shutter Sensitivity 200 1600 (ISO equivalent) in steps of 1/3 EV White balance Bracketing 23 exposures in increments of 1 Auto (TTL white-balance with 1,005 pixels RGB sensor), six manual modes with fine-tuning, preset white balance - M3 - VBA10401-R.3623.A Storage Media Type I and II CompactFlash memory cards; Microdrives File system Compliant with Design Rule for Camera File System (DCF) 2.0 and Digital Print Order Format (DPOF) Compression NEF (RAW): compressed 12-bit JPEG: JPEG baseline-compliant Built-in Speedlight Guide number(m / ft at 20 C/68 F) ISO 200: approximately 15/49 (manual 17/56) ISO 100: approximately 11/36 (manual 12/39) , , , : auto flash with auto pop-up P, S, A, M: manual pop-up with button release Flash Sync contact X-contact only; flash synchronization at up to 1/500 s Sync modes , , , : front curtain sync, red-eye reduction : slow sync, slow sync with red-eye reduction , , , : front curtain sync

and red-eye reduction available with optional Speedlights P, S, A, M: front curtain sync, slow sync, rear-curtain sync, red-eye reduction, slow sync with red-eye reduction Flash-ready indicator Lights when SB-series Speedlight such as 800, 600, 80DX, 28DX, 50DX, 28, 27, or 22s is fully charged; blinks for 3 s after flash is fired at full output Flash control TTL TTL flash control by 1,005-pixel RGB sensor (CPU lenses only) Built-in Speedlight: i-TTL balanced fill-flash for digital SLR, or standard i-TTL flash for digital SLR (spot metering or mode dial set to M) SB-800 or 600: i-TTL balanced fill-flash for digital SLR, or standard i-TTL flash for digital SLR (spot metering) Auto aperture Available with SB-800 with CPU lens Non-TTL auto Available with such Speedlights as SB-800, 80DX, 28DX, 28, 27, and 22s Range-priority manual Available with SB-800 Flash compensation 3 +1 EV in increments of 1/3 or 12 EV Creative Lighting System Supports Flash Color Information Communication and FV lock with built-in Speedlight, SB-800, and SB-600. SB-800 and 600 also support Advanced Wireless Lighting. Accessory shoe Standard ISO hot-shoe contact with safety lock - M4 - VBA10401-R.3623.A Video output Can be selected from NTSC and PAL External interface USB Tripod socket 14 (ISO) Power source One rechargeable Nikon EN-EL3 Li-ion battery; charging voltage (MH-18 quick charger or optional MH-19 multi charger): 7.4 V DC Three CR2 lithium batteries (with MS-D70 battery holder) EH-5 AC adapter (available separately) Dimensions (W H D) Approximately 140 111 78 mm (5.5 4.4 3.1) Weight Approximately 595 g (1 lb 5 oz) without battery, memory card, body cap, or monitor cover Operating environment Temperature 0 40 C (32 104 F) Humidity Less than 85 (no condensation) Unless otherwise stated, all figures are for a camera with a fully-charged battery operating at an ambient temperature of 20 C (68 F). Self-timer Electronically controlled timer with 2 20 s duration Depth-of-field preview When CPU lens is attached, lens aperture can be stopped down to value selected by user (A and M modes) or value selected by camera (Digital Vari-Program, P, and S modes) Monitor 1.8, 130,000-dot, low-temperature polysilicon TFT LCD with brightness adjustment Firmware upgrades Firmware can be upgraded by user

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