



Toshiba PDR-M60 Service Manual

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FILE NO. 210-200101

SERVICE **TOSHIBA** MANUAL

DIGITAL STILL CAMERA

PDR-M60



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Digital still camera (25 pages)

Summary of Contents for Toshiba PDR-M60

[Page 1](#) FILE NO. 210-200101 SERVICE MANUAL DIGITAL STILL CAMERA PDR-M60 PDR-M60
PRINTED IN JAPAN, Mar., 2001...

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Sequence5 2-3. OFF Mode 5 2-4.

[Page 3: Disassembling Procedures](#)

1. DISASSEMBLING PROCEDURES 1-2. Notes on Assembling and Disas- 1-1. Disassembling Procedures
1. Remove the battery and the SmartMedia. 1. Be sure to discharge the condenser of strobe to 2. Remove five screws and two tripod fixing screws. prevent electric shock. Open the DC jack cover and remove the rear cover 2.

[Page 4: Outline Of Electrical Circuit](#)

2. OUTLINE OF ELECTRICAL CIRCUIT 2-1. System Over View It consists of 5 PC boards, lens module, color LCD and mode dial. Microprocessor unit detects the power management and key operation and functions as a slave microprocessor of DSP (Raptor) in the Logic unit. Logic unit covers all functions of signal processing and camera functions.

[Page 5](#) U100 Logic Unit FLASH RAM SD RAM (M29W400BT90) (HY57V651620) H001 Lens Module IR filter CDS/AD I_Data(10bit) U25A Buffer CCD control V&HDriver LCD Drv PU1,PU2 LCD_Data (EM1812B) (MB87J33020) U25B Iris Zoom Focus Color LCD J0402 FLASH SM socket CN015P-2103-1 A240 Mode Dial FLASH_ENb POWER_EN,BACK_CUR,etc U400...

[Page 6: Boot Up Sequence](#)

2-2. Boot up Sequence 2-3. OFF Mode Chart2 Boot Up When Pin4 (J501 Pin7) PWR_SWITCH signal (U302 Pin2) of the mode dial (SW502) develops high, the The voltage of 3.3V_UC is supplied by a battery microprocessor enters OFF mode. insertion or DC input. The microprocessor (U302) is In the OFF mode, the microprocessor turns all the reset and starts the boot-up operation of DSP (U20).

[Page 7: Lcd](#)

2-5. LCD 2-11. Strobe Control After the images stored on the SDRAM (U21) are Strobe charge is controlled by a sub microprocessor processed inside DSP (U20) again, they are modified and the light emission is controlled by DSP (U20) to the appropriate size, bit width (6 bit per each RGB) corresponding to the CCD output amount.

[Page 8: Electrical Adjustment](#)

3. ELECTRICAL ADJUSTMENT Calibration Procedures – PDR-M60 Equipments 1) Light Box: DNP Standard Color Viewer Model: CCV51F Use Lamp: FL-10W-4 Voltage : 100V 2) Vector Scope 3) Focus Test Charts Supplied from TOSHIBA. Near Focus Chart Supplied as PDF file.

[Page 9](#) Select item 1 named CCD calibration used Mode dial. Item number is shown on a status LCD. "Manual Rec" mode shown as items 1 on B/W LCD. Press shutter to run CCD Calibration Test If Color LCD display "*** OK **", Camera Passes Record Data to Traveler Sheet and Pass to next station. If Color LCD display "*** Error ???**", Camera Fails, record failure code and submit to Failure Analysis.

[Page 10](#) Near Focus Verification Tools: DNP Light Box Power Supply (AC adaptor 5V) Camera Positioning Fixture 40 cm Focus Target attached to light box Smart Media card with Calibration Code Procedure: Install Smart Media card with Calibration Code into camera. Place camera into the positioning fixture. Positioning Fixture slides right to left at Preset Detents to hit the 40cm targets.

[Page 11](#) 5) Smart Media card with Calibration Code Procedure: Install Smart Media card with Calibration Code into camera. Place camera into the positioning fixture. Positioning Fixture slides right to left at Preset Detents to hit the 3 m targets. Attach camera to power supply. Point camera at the 3 m Focus target. Turn on camera Select Item 3 with Mode dial.

[Page 12](#) Strobe Check Tools: Power Supply (Topward: DC Power Supply set to 5V) 18% Grey Chart (44 cm x 37cm) See Attachment "A" Camera Positioning Fixture Smart Media card with Calibration Code Procedure: Install Smart Media card with Calibration Code into camera. Place camera into the positioning fixture.

[Page 13](#) Press shutter to display menu on CRT monitor. Select item 6 on the screen with T and W zoom button Press shutter to run a video calibration Use zoom T/W buttons until all spectral dots simultaneously match up each color boxes on the Vector scope.

[Page 14](#) Press shutter to display menu on CRT monitor. Select item 7 on the screen with T and W zoom button Press shutter to run a LCD calibration. Use zoom T/W buttons until A,B,C,D

bar are visible as separately. - 13 -...

[Page 15](#) Attachment "A" Strobe Check Box Specifications Entrance: Covered with Black Felt Curtains Dimensions: WxHxD'1 m x 1 m x 1 m Material: .75 inch thick Cabinet Grade Plywood Paint: Paint Interior Surface with Flat Black Paint 18 % Gray Rear Target: Fits Tightly to Rear Inside Dimension of Box.

[Page 16](#) 8. Firmware update using the USB 9. Firmware update using the cable SmartMedia Preparation: the latest firmware Preparation: SmartMedia with the latest [fware64.bin] copied PDR-M60 PDR-M60 AC adapter AC adapter USB cable Method: Method: Be sure to turn the camera to [OFF], remove the 1.

[Page 17: Circuit Diagram](#)

4. CIRCUIT DIAGRAM 4-1. Logic Unit Circuit Diagram VCCY +3.3V R 3 9 +3.3V LCD_GCP 2 . 7 K LCD_FRX LCD_ALRST +2.6V_RAPTOR R 4 0 D 3 3 B R 4 7 LCD_LP C 1 3 LCD_RES C 2 9 +3.3V_UC 1 0 0 HN2D01FU...

[Page 18: Power Unit Circuit Diagram](#)

4-2. Power Unit Circuit Diagram TUBE201 +3.3V_UC TP201 EG&G BGAC1015UM1500 TP202 TUBE + TUBE - D219 MA111 STROBE_V TRIGGER C203 +VBAT T203 D208 10/16 TMP T06528 RS1G T201 SIT11084-13A NOTE: REMOVE PIN 2 +3.3V_UC R213 R210 330K 100K/1206 C201 ON J21 PRIOR TO TP205 33P/1KV J202...

[Page 19: Microprocessor Unit Circuit Diagram](#)

4-3. Microprocessor Unit Circuit Diagram C301 R312 GND1 GND2 GND4 GND5 GND7 GND8 LCD301 WINTEK TZ9968-RG-8 SEG11 SEG10 SEG13 SEG12 SEG9 SEG12 SEG13 SEG8 SEG11 C302 Y301 SEG7 SEG10 ECS-3X8 32.768KHz SEG6 SEG9 SEG5 SEG8 SEG4 SEG7 C303 R313 SEG3 SEG6 SEG2 SEG5...

[Page 20: Lens Unit Circuit Diagram](#)

4-4. Lens Unit Circuit Diagram +3.3V J401A C404 +2.6V_LENS C407 47/6 +2.6V_LENS LENS_PIIN2 LENS_ZME LED401 +3.3V U401 SANYO LENS_FPM2 RED LED, 1mA R404 LB1848M TIMER_LED LENS_FPM1 1.6K ZOOM_RET LENS_ZSPM1 OUT4 LENS_ZOUT1 ZOOM_POS LENS_FME TIMER_LED LENS_ZSPM2 OUT3 LENS_ZOUT2 ZOOM_REF LENS_SME LENS_ZME OUT1 LENS_ZOUT3 LENS_ZSPM2...

[Page 21: Switch Unit Circuit Diagram](#)

4-5. Switch Unit Circuit Diagram D503A BAT54C D508A D502A BAT54C BAT54C D501A BAT54C D501B BAT54C D507B BAT54C J501 D504A D504B SW501 BAT54C BAT54C HXW0760 SC2P D502B BAT54C D507A BAT54C SW503 SW504 MENU DISPLAY SW502 PWR_SWITCH ELCO 6212-10 PINS IB-VC-Y0442 D503B BAT54C ROTARY SWITCH CONNECTOR D509A...

[Page 22: Chassis Assembly](#)

5. CHASSIS ASSEMBLY Coating - 24 -...

[Page 23: Parts List](#)

6. PARTS LIST Location Number Parts Number Description MODULE H002 72000096 LCD, COLOR MECHANICAL PARTS A100 72000072 SHELL ASSY, FRONT A110 72000075 DOOR ASSY, BATTERY A120 72000068 CARRIAGE A140 72000071 TRIPOD NUT A150 72000078 PLATE, LENS A160 72000077 LENS, LCD BW A200 72000073 SHELL ASSY, REAR...