

DSC-F707

SERVICE MANUAL

Level 2

Self Diagnosis
Supported model

Ver 1.3 2004. 09
Cyber-shot

IntelLITHIUM M



MEMORY STICK



US Model
Canadian Model
AEP Model
UK Model
E Model
Hong Kong Model
Australian Model
Chinese Model
Korea Model
Tourist Model
Japanese Model

This service manual contains information for Japanese model as well.

On the SY-072 board

This service manual provides the information that is premised the circuit board replacement service and not intended repair inside the SY-072 board.

Therefore, schematic diagram, printed wiring board and electrical parts list of the SY-072 board are not shown.
The following pages are not shown.

SY-072 board

Schematic diagram Pages 4-15 to 4-28
Printed wiring board Pages 4-11 to 4-14
Electrical parts list Pages 6-15 to 6-18

The above-described information is shown in service manual Level 3.

SPECIFICATIONS

System

Image device

31 mm (2/3 type) color CCD

Effective pixels number of camera

Approx. 5 020 000 pixels

Lens

5 $\times$ zoom lens
F = 9.2 ~ 48.5 mm (3.5/3.2 ~ 1.5/5.6 inches)

(38 ~ 190 mm (1 1/2 ~ 7 1/2 inches) when converted to a 35 mm still camera)

F = 2.8 ~ 2.4

Filter diameter: 58 mm (2 3/8 inches)

Exposure control

Automatic exposure, Shutter speed priority, Aperture priority, Manual exposure

White balance

Automatic, Indoor, Outdoor, One-push

Data system

Movie: MPEG1

Still: JPEG, GIF (via Clip Monitor), TIFF

Audio with still image: MPEG1 (Monaural)

Recording medium

"Memory Stick"

Flash

Recommended recording distance (ISO set to AUTO): 0.3 m to 4.5 m (1.1 7/8 inches to 1 7/7 1/4 inches)

Viewfinder

Electric viewfinder (color)

Output connector

A/V OUT (Monaural)

Minijack

Video: 1 Vp-p, 75 Ω , unbalanced, sync negative

Audio: 127 mV (at a 47 k Ω load)

Output impedance: 2.2 k Ω

USB jack

mini-B

ACC (Accessory) jack

mini-B

LCD screen

Used LCD panel

4.6 cm (1.8 type) TFT (Thin Film Transistor active matrix) drive

Total number of dots

123 200 (340 $\times$ 220) dots

General

Used battery pack

NP-FM50

Power requirements

1.2 V

Power consumption (during recording)

2.8 W

Operation temperature

0°C to 40°C (32°F to 104°F)

Storage temperature

-20°C to +60°C (-4°F to +140°F)

Maximum dimensions

119 $\times$ 69 $\times$ 15.5 mm

(4 3/4 $\times$ 2 3/4 $\times$ 6 inches) (width) (including maximum protrusions)

Mass

Approx. 190 g (13.9 oz)

(including battery pack NP-FM50, "Memory Stick," shoulder strap and lens cap etc.)

Built-in microphone

Electret condenser microphone

Built-in speaker

Dynamic speaker

AC-L15A/L10B/L10C

AC power adaptor

Power requirements

100 to 240 V AC, 50/60 Hz

Rated output voltage

DC 8.4 V, 1.5 A in operating mode

Operation temperature

0°C to 40°C (32°F to 104°F)

Storage temperature

-20°C to +60°C (-4°F to +140°F)

Maximum dimensions

125 $\times$ 39 $\times$ 62 mm

(5 $\times$ 1 9/16 $\times$ 2 1/2 inches) (width)

Mass

Approx. 280 g (10 oz)

NP-FM50 battery pack

Used battery

Lithium ion battery

Maximum voltage

DC 8.4 V

Nominal voltage

DC 7.2 V

Capacity

8.2 Wh (1 180 mAh)

Accessories

A/V connecting cable (1)

NP-FM50 battery pack (1)

AC-L15A/L10B/L10C AC

power adaptor (1)

Power cord (1)

Forma Case (1)

USB cable (1)

Lens cap (1)

Shoulder strap (1)

"Memory Stick" (16 MB) (1)

CD-ROM (USB driver SPVD-004) (1)

Operating instructions (1)

Design and specifications are

subject to change without

notice.

DIGITAL STILL CAMERA

SONY®

Sony Dsc F707 Dsc F707 Digital Camera Service Repair Manual

Padhraic Smyth



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