

DSC-S30/S50

SERVICE MANUAL

Level 2

Ver 1.2 2001. 10



Cyber-shot



MEMORY STICK



Photo : DSC-S30

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-58 board

This service manual provides the information that is premised the circuit board replacement service and not intended repair inside the SY-58 board.

Therefore, schematic diagram, printed wiring board and electrical parts list of the SY-58 board are not shown.
The following pages are not shown.

SY-58 board

Schematic diagram Pages 4-15 to 4-30
Printed wiring board Pages 4-11 to 4-14
Electrical parts list Pages 6-11 to 6-15

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

SPECIFICATIONS

System

Image device

1/2.7 type color CCD

Lens

3x zoom lens

$f = 6.1 - 18.3 \text{ mm}$

(29 - 11.7 mm when converted into a 35 mm still camera)

$F = 2.8 - 2.9$

Exposure control

Automatic exposure

White balance

Automatic, Indoor, Outdoor,

Hold

Data system

Still: iPSO, GIF (a TECT model), TIFF

Movie (DSC-S50 only):

MP1001

Audio with still image

(DSC-S50 only):

MP1001 (Monaural)

Recording medium

"Memory Stick"

Flash

Recommended recording

distance:

11.7/8 inches to 9.1/4 feet
(0.3 m to 2.5 m)

Output connector

A/V OUT (Monaural) (DSC-S50 only)

Mini-jack

Video: 1 V_{p-p}, 75 ohm,
unbalanced, sync negative

Audio: 327 mV (at a

47 kOhm load)

Output impedance:
1.2 kOhms

VIDEO-OUT (DSC-S50 only)

Mini-jack

Digital I/O (USB)

Special mini-jack

LCD screen

Used LCD panel

2 type TFT (Thin Film

Transistor active matrix) drive

Total number of dots

123 300 (360×220) dots

General

Used battery pack

NP-FM50

Power requirements

3.4 V

Power consumption (during recording)

2.9 W

Operation temperature

32°F to 104°F

(0°C to 40°C)

Storage temperature

-4°F to +140°F

(-30°C to +60°C)

Maximum dimensions

4.1/2×2.3/4×2.3/4 inches
(113×58×59 mm) (width)

Mass

Approx. 15 oz (370 g)

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

Built-in microphone

(DSC-S50 only)

Electret condenser microphone

Built-in speaker

(DSC-S50 only)

Dynamic speaker

AC-L10 AC power

adaptor

Power requirements

100 to 240 V AC, 50/60 Hz

Rated output voltage

DC 3.4 V, 1.5 A in operating

mode

Operation temperature

32°F to 104°F (0°C to 40°C)

Storage temperature

-4°F to +140°F

(-30°C to +60°C)

Maximum dimensions

2x1.5/16×2.5/2 inches

(1.23×0.9×52 mm) (width)

Mass

Approx. 10 oz (280 g)

NP-FM50 battery pack

Used battery

Lithium Ion battery

Maximum voltage

DC 3.4 V

Nominal voltage

3V, 7.2 V

Capacity

8.5 Wh (3.180mAh)

Design and specifications are
subject to change without
notice.

DIGITAL STILL CAMERA

SONY®

Sony Cybershot Dsc S50 Manual

R Barnett



Sony Cybershot Dsc S50 Manual:

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web coordinates of v the standard coordinates are v_3 are the b_1 b_2 are assumed if no other basis is specified this means $v = 3e_1 + 4e_2 + 4e_5 + 2e_6$ if b_1, b_2, v_3 is a basis of $\mathbb{R}^n$ then the matrix S which contains the vectors v_k as column vectors is called the coordinate change matrix

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web and now that we know what d is we can now solve for a we can now solve for the transformation matrix with respect to the standard basis so to do that we have to figure out c and c inverse so c remember c is just the change of basis matrix and all that is is the basis vectors it's just a matrix with the basis vectors in the column

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web a translation by a nonzero vector is not a linear map because linear maps must send the zero vector to the zero vector however translations are very useful in performing coordinate transformations i ll introduce the following terminology for the composite of a linear transformation and a translation definition let a be a real matrix

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web any vector v represented in b can be transformed to a representation in c as follows under the transformation of basis notice that the superscript on the transformation matrix m and the subscript on the coordinate vector v are the same and seemingly cancel leaving the remaining subscript

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