# DSC-P92

## Cyber-shot®
## Digital Still Camera

## FEATURES

### ▶ 1/1.8" 5.0 Megapixel Effective Super HAD™ CCD

Super HAD (Hole Accumulation Diode) CCD's provide excellent image quality by allowing more light to pass to each pixel, increasing sensitivity and reducing noise.

### 3X Optical Zoom Lens

To help frame your shots for better digital pictures. Optical Zoom helps you bring distant subjects closer & pull back for wide shots.

### ▶ 0 - 4.0X Smart Zoom (at VGA Size)

Smart Zoom intelligently uses the full CCD to let you zoom into the portion of interest by cropping the image size—thus avoiding the image degradation of Digital Zooms.

### 3 Area Multi-Point Auto Focus

Evaluating 3 separate focus areas of the frame, Multi-Point AF can intelligently focus on the subject and avoid mistakenly focusing on the background.

### AF (Auto Focus) Illuminator

Briefly illuminating the subject in low–or no–light conditions, AF Illuminator helps establish a positive focus lock.

### Multi-Pattern Measuring

Independently light-metering 49 points of the frame, Multi-Pattern Measuring establishes the optimum exposure value, even in scenes where pronounced highlight and shadow are not centered in the frame.

### Auto Daylight Synchro Fill Flash

If the Multi-Pattern Measuring system determines the subject is backlit or in shadow, fill flash automatically fires to provide optimum exposure.

### Memory Stick® Media

Digital. Powerful. Transportable.™ Memory Stick media is compact, portable and rugged—connecting a variety of hardware and software applications.

### Scene Selection Mode

With 5 Scene Modes, camera parameters can be matched to the shooting conditions. Twilight, Twilight Portrait, Landscape, Snow and Beach presets make it easy to optimize difficult shooting environments.

### Slow Shutter Noise Reduction

During long Twilight mode exposures, Slow Shutter NR captures the scene, and then the CCD noise pattern with a dark frame exposure. By subtracting the two, even long exposures can be clear.

### 14-Bit DXP A/D Conversion

Sony's 14-bit **D**igital E**X**tended **P**rocessor captures the range between highlight and shadow with up to 16,384 values, for extended dynamic contrast and detail.

### 1.5" LCD Monitor

Monitors the scene for accurate framing. 123K pixel and anti-glare coating help provide excellent viewing and image playback clarity, even outdoors.

### True Zoom Optical Viewfinder

Provides accurate framing at eye level, great for added stability and following fast moving subjects.

### Pre-Flash Metering

With a momentary pre-flash, the camera illuminates the subject and sets exposure through the lens for accurate flash metering. Adjustable flash level and red-eye reduction insure great flash shots.

### 5MP (2592 x 1944) Image Size

With its high resolution CCD, the DSC-P92 captures in 4 different image sizes, with selectable Fine or Standard JPEG compression.

### Multi-Burst Mode

Captures 16 320x240 frames as part of a single 1280x960 image which plays back sequentially in the camera. Selectable 1/7.5, 1/15, 1/30 second frame intervals provide convenient motion analysis.

### MPEG Movie VX Mode

Captures VGA (640 x 480) high frame rate (16 frames per second) audio/video clips with length limited only by the capacity of the media. Video Mail mode captures smaller file sizes suitable for email.

### Clip Motion Mode

Capture up to 10 images and convert them to an animated GIF with 2 fps playback. By varying the interval between shots you can create animations not possible with other motion capture modes.

### Playback Zoom, Trim and Resize

During playback, magnify any portion of the image up to 5X and trim to the area of your interest. Then, save the new image as a new file in any of the image sizes available from the menu.

### Rechargeable NiMH Batteries

Long-lasting power is provided by 2100 mAh rated Nickel Metal Hydride (NiMH) Stamina® batteries with BC-CS2 external charger. Or, choose "AA" Alkaline cells or optional AC adaptor.

## ADDITIONAL FEATURES

2 Shot Burst Mode
Clear Color/Clear Luminance NR
MPEG1 Cue, Review and Divide
3:2 Aspect Ratio Mode

Video Output (PAL/NTSC Selectable)
4 Mode In-Camera Picture Effects
5 Step Manual preset Focus

## SPECIFICATIONS

**Imaging Device:** 1/1.8" 5.0 Megapixel Effective Super HAD™ CCD
**Recording Media:** Memory Stick® Media, Memory Stick PRO™ Media
**Zoom:** 3X Optical, 4X Smart Zoom (at VGA size), 12X Total
**Filter Diameter:** N/A
**Focal Length:** 7.9 - 23.7mm
**35mm Equivalent:** 38 - 114mm
**Aperture:** f2.8 - 5.6
**Focus:** 3 Area Multi-Point AF, 5 Step Manual Preset
**Minimum Focus Distance:** 19.7" (50 cm)
**Macro Focus Distance:** 3.9" (10 cm)Shutter Speed:
**Shutter Speed:** Auto, 1/30 – 1/2000 sec, Twilight 2 sec – 1/2000
**Manual Exposure:** ±2.0 EV, 1/3 EV Steps
**Color LCD:** 1.5" 123K Pixels Low Temperature Polysilicon TFT
**Flash Modes:** Auto/Forced On/Forced Off/Slow Synchro
**Red-Eye Reduction:** On/Off
**Flash Effective Range:** 1.3 – 12.5 ft (0.4 – 3.8m)
**White Balance:** Auto, Daylight, Cloudy, Fluorescent, Incandescent
**Picture Effects:** Black & White, Solarize, Sepia, Negative Art
**ISO:** Auto, 100, 200, 400
**Scene Modes:** Twilight, Twilight Portrait, Landscape, Beach, Snow
**Self Timer:** Yes, 10 Seconds
**Video Output:** Yes NTSC/PAL Selectable
**Still Image Modes:** JPEG (Fine/Std.), Burst, Email, Voice Memo
**MPEG Movie Modes:**
MPEG VX (640x480, 16fps, with audio)
MPEG Video Mail (160x112, 8 fps with audio)
**Clip Motion:** Normal (160x120), Mobile (80x72)
**Microphone/Speaker:** Yes/Yes
**USB Terminal:** Yes Supports USB 2.0
**Memory Stick PRO™ Media Compatibility:** Tested to support up to 1GB media capacity; does not support high speed transfer function; does not support Access Control security function
**Battery Type/Capacity:** NiMH AA, 2100 mAh Rated
**Supplied Software:** Pixela™ Image Mixer Software for Sony v1.5, USB Driver SPVD-008
**OS Compatibility:** Microsoft® Windows® 98/98SE/Me/2000 Professional/XP Home/Pro; Macintosh® OS 8.5.1/8.6/9.0/9.1/9.2
**Supplied Accessories:** NH-AA-DA Rechargeable NiMH Batteries, BC-CS2 NiMH Battery Charger, A/V and USB Cables, Wrist Strap, MSA-16A 16MB Memory Stick® Media, Software CD-ROM
**Dimensions (W/H/D):** 4 $^{11}/_{16}$" x 2 $^{1}/_{4}$" x 1 $^{5}/_{16}$" (119.5 x 57.7 x 32.6mm)
**Weight:** 9.5 oz (259g) (w/Battery, Memory Stick® Media, Strap)

# SONY

Sony Electronics Inc.
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### JPEG Still Image Mode
**Fine/Standard Picture Quality**

| Memory Stick® Media[1] | 2592x1944 (5MP) | 2592x1728 (3:2) | 2048x1536 (3MP) | 1280x960 (1MP) | 640x480 (VGA) |
|---|---|---|---|---|---|
| 16MB | 6/11 | 6/11 | 10/18 | 24/46 | 97/243 |
| 32MB | 12/23 | 12/23 | 20/37 | 50/93 | 196/491 |
| 64MB | 25/48 | 25/48 | 41/74 | 101/187 | 394/985 |
| 128MB | 51/96 | 51/96 | 82/149 | 202/376 | 790/1,975 |
| Memory Stick PRO™ Media[1] | | | | | |
| 256MB | 92/174 | 92/174 | 148/264 | 357/649 | 1,428/3,571 |
| 512MB | 188/354 | 188/354 | 302/537 | 726/1,320 | 2,904/7,261 |
| 1GB | 384/723 | 384/723 | 617/1,097 | 1,482/2,694 | 5,928/14,821 |

### MOTION CAPTURE MODES
**Maximum Recording Time (minutes/seconds)**

| Memory Stick® Media | MPEG Movie 640x480 (VX Mode) | 160x112 (Mail Mode) | Clip Motion (Images) 160x112 (Normal-10f) | 80x72 (Mobile-2f) | 16 Frame Multi-Burst 1280x960 (Fine/Std) |
|---|---|---|---|---|---|
| 16MB | 42sec | 11m 13s | 88 | 486 | 24/46 |
| 32MB | 87sec | 22m 43s | 178 | 982 | 50/93 |
| 64MB | 176sec | 45m 40s | 358 | 1,971 | 101/187 |
| 128MB | 5m 54s | 91m 34s | 718 | 3,951 | 202/376 |
| Memory Stick PRO™ Media | | | | | |
| 256MB | 10m 41s | 165m 35s | 1,190 | 3,571 | 357/649 |
| 512MB | 21m 44s | 336m 43s | 2,420 | 7,261 | 726/1,320 |
| 1GB | 44m 23s | 687m 19s | 4,940 | 14,821 | 1,482/2,694 |

### BATTERY LIFE (Approx)

| Battery Fully Charged | Recording-# Shots* LCD On/Off | Recording-Minutes* LCD On/Off | Viewing** No. Images/Batt. Life |
|---|---|---|---|
| NH-AA-DA | 300/500 | 150min/250min | 5400/270min |

*Under Average Conditions:
Normal Mode (JPEG), Picture quality Fine; Shooting each image at 30 second intervals; Zoom is alternated from Wide to Telephoto ends; Flash operated every other shot; Power is turned on/off after every 10 shots; Actual results may vary on conditions of use.
**Viewing single images consecutively, at about 3 second interval.

## OPTIONAL ACCESSORIES

ACC-3NP Starter Kit (AC-LS5, LCS-CP2, NH-AA-2DA, BC-CSQ)
NH-AA-2DA/4DA Rechargeable NiMH Batteries (2pk/4pk)
AC-LS5 AC Power Supply
LCS-PEA Soft Carrying Case
LCS-CP2 General Carrying Case
LCS-CSB Sport Style Carrying Case
HVL-FSL1A External Slave Flash w/Bracket
VAD-PEA Conversion Lens Adaptor Mount
VCL-DH0730 Wide Angle Conversion Lens*
VCL-DH1730 Telephoto Conversion Lens*
VF-30CPKS Polarizing Filter Kit*
VF-30NK Neutral Density Filter Kit*
VF-30SC Special Effects Filter Kit*
*VAD-PEA Conversion Lens Adaptor Mount Required

MSA-32A, MSA-64A, MSA-128A Memory Stick® Media
MSA-128S2 Memory Stick® Media with Select Function (256MB total)
MSX-256, MSX-512, MSX-1G Memory Stick PRO™ Media
MSAC-HGA8 Memory Stick® Media Carrying Case
MSAC-US70 Memory Stick PRO™ Media USB Adaptor/Mouse
MSAC-US20 Memory Stick PRO™ Media USB Adaptor
MSAC-PC3 Memory Stick PRO™ Media PC Card Adaptor
VMC-14UMB Replacement USB Cable
VCT-MTK Travel Tripod
VCT-R640 Lightweight Tripod