

DSC-HX20/HX20V/HX30/HX30V

SERVICE MANUAL

Ver. 1.2 2012.06

LEVEL 2

Internal memory
ON BOARD

Revised-2

Replace the previously issued
(SERVICE MANUAL: 94704-600-00)
with this Manual.

Photo: (DSC-HX20/HX20V)

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

SERVICE NOTE (Check the following note before the service.)

- ENGLISH -

- 1-1. PRECAUTION ON REPLACING THE SY-025 BOARD
- 1-2. ADDITION OF DESTINATION DATA FILE
- 1-3. METHOD FOR COPYING OR ERASING THE DATA IN INTERNAL MEMORY
- 1-4. HOW TO WRITE DATA TO INTERNAL MEMORY
- 1-5. SELF-DIAGNOSIS FUNCTION
- 1-6. PROCESS AFTER FIXING FLASH ERROR
- 1-7. PRECAUTION ON REPLACING THE CABINET (BOTTOM)
- 1-8. CHECKING THE Wi-Fi FUNCTION
- 1-9. ORNAMENTAL RING & OR BARRIER ASSY REPLACING METHOD
- 1-10. ZOOM MOTOR GEAR BLOCK REPLACING METHOD
- 1-11. CAM TUBE (O) ASSY REPLACING METHOD
- 1-12. FINAL INSPECTION

- JAPANESE -

- 1-1. SY-025基板交換時の注意
- 1-2. Destination Data ファイルの追加について
- 1-3. 内蔵メモリーのデータコピーおよび消去方法
- 1-4. 内蔵メモリーへデータを書き戻す方法
- 1-5. 自己診断機能
- 1-6. フラッシュエラー発生時の対処法
- 1-7. カビネット (底) 交換時の注意
- 1-8. Wi-Fi機能の確認

DIGITAL STILL CAMERA

SONY

Revision History

Ver.	Date	History	Contents	Is the file revised
1.0	2011.05	Official Release	—	—
1.1	2011.05	Revised-1 (JAL 11-003)	・ Addition of SERVICE NOTE - Page 1-1, 1-11, 1-12, 1-13, 1-19 ・ Revision of EXPLAINED HISTORY - Page 1-3, 1-4, 1-5, 1-6, 1-7 ・ Correction of ACCESSORIES - Page 1-2 ・ Addition of Page	Yes
1.2	2012.06	Revised-2 (JAL 12-003)	・ Addition of DSC-HX20 - Page 1-1, 1-11, 1-13, 1-14	Yes

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China could learn lessons from Japan and India in their respective patent legislation and policy choices With China undertaking a fourth patent law amendment the provisions contained in the second draft of the Patent Law 2015 which was published in December 2015 are included in the analysis **Byte** ,1985-04 **InfoWorld** ,1982-12-13 InfoWorld is targeted to Senior IT professionals Content is segmented into Channels and Topic Centers InfoWorld also celebrates people companies and projects *QST.* ,1973 **High Fidelity & Audiocraft** ,1983 Contains Records in review **Radio-electronics** ,1978 *InfoWorld* ,1984-08-13 InfoWorld is targeted to Senior IT professionals Content is segmented into Channels and Topic Centers InfoWorld also celebrates people companies and projects **Practical Computing** ,1986 **High Fidelity** ,1983-06 **Traffic Engineering & Control** ,1988 *Agricultural Computing Source Book* ,1981 *InfoWorld* ,1984 **Ham Radio** ,1973 *Computers & Electronics* ,1983 *Annuaire Du Spectacle Pour Les Tournées Au Canada* ,1975 Includes index **Informatics Abstracts** ,1984 **Journal of the Audio Engineering Society** Audio Engineering Society,1987 Some issues include Directory of members [Sony DSC-RX10 IV User Guide](#) Luther Yange,2025-06-14 Master your Sony DSC RX10 IV and unlock its full potential with this comprehensive easy to follow guide Whether you re a complete beginner or an enthusiast eager to elevate your photography this book is your ultimate companion for maximizing every feature of this powerful all in one camera From initial setup to professional level customization you ll discover practical instructions expert tips and creative techniques to capture stunning photos and cinematic videos Inside this guide you ll learn how to Set up your RX10 IV the right way for photography and video Master autofocus modes exposure settings and creative styles Shoot professional quality videos with expert audio and video settings Capture breathtaking slow motion footage using High Frame Rate HFR recording Use wireless connectivity features like Wi Fi NFC and Bluetooth Customize controls assign functions and create a workflow that suits your style Maintain your camera for peak performance and longevity Troubleshoot common issues with step by step solutions Unlock hidden features and expert level shortcuts for professional results Perfect for photographers vloggers and filmmakers this user friendly manual will guide you to make the most of your investment in the Sony DSC RX10 IV whether you re capturing landscapes portraits wildlife or cinematic productions

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web nmr determination of keto enol equilibrium constants in this experiment proton nmr spectroscopy is used in evaluating the equilibrium composition of various keto enol mixtures chemical shifts and spin spin splitting patterns are employed to assign the spectral features to specific protons and the integrated intensities

kinetic and mechanistic studies of the deuterium exchange in - Jan 25 2023

web in the first semester lab course you may have determined the temperature dependence of the keto enol equilibrium constants of acetylacetone 2 4 pentanedione and ethyl acetoacetate ethyl 3 oxobutanoate in chloroform d1 cdcl3 and methanol d4 cd3od using 1h nmr 1 4 see figure 1

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web nov 19 2015 we aim to clarify the effects of size confinement solvent and deuterium substitution on keto enol tautomerization of acetylacetone acac in solutions confined in 10 100 nm spaces i e extended nanospaces using 1 h nmr spectroscopy the keto enol equilibrium constants of acac k eq keto enol in various solvents confined

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web the keto enol equilibrium constants of acac k eq keto enol in various solvents confined in extended nanospaces of 200 3000 nm were examined using the area ratios of ch 3 peaks in keto to enol forms

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web the enol keto equilibrium constant k eq enol keto and enol are functions of temperature their values can be determined by integrating the enol and keto signal areas table 1 summarizes the equilibrium constant and percent enol concentration values calculated for the different combinations of enol to keto ratio note that

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web the relative amounts of products and reactants at equilibrium is characterized by the equilibrium constant for this reaction K_{eq} is defined as $\frac{[enol]_{eq}}{[keto]_{eq}}$ where the subscript eq indicates that all concentrations are measured at equilibrium

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web because the system exists essentially completely as the thiol isomer a carbon acid acidity constant for ionization starting with the thio keto form as the initial state K_j could not be measured and a keto enol equilibrium constant K_{te} could not be determined

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nmr determination of keto enol equilibrium constants introduction in this experiment you will use 1H nmr to determine the keto enol equilibrium composition of two diketones

18 2 keto enol equilibria chemistry libretexts - Mar 27 2023

web keto enol tautomerism because of the acidity of α hydrogens carbonyls undergo keto enol tautomerism tautomers are rapidly interconverted constitutional isomers usually distinguished by a different bonding location for a labile hydrogen atom and a differently located double bond

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web jan 27 2016 several factors affect the position of keto enol equilibrium defined here as $K = \frac{[enol]}{[keto]}$ including structure steric bulk conjugation electron withdrawing donating groups resonance temperature and solvent a judiciously selected set of compounds that have a common 1 3 dicarbonyl moiety with progressively

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web experimental methods detailed experimental procedure used for this experiment is given in the chem 417 laboratory manual the experiment 1 nmr determination of keto enol equilibrium constant each student prepared 4 tubes with sample solutions and two nmr tubes with solvent only one with deuterated chloroform and one with the methanol

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web abstract the keto enol equilibrium constants of acetylacetone ethyl acetoacetate and ethyl benzoylacetate in water at 25 $^{\circ}C$ are determined by studying the influence of surfactants on their uv vis spectra following the method applied to benzoylacetone published recently

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description of this experiment by garland shoemaker and nibler

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web using nmr spectroscopy the equilibrium values for different ketones which undergo tautomerization were found by determining relative peak values for each species the value for acetylacetone was found to be $K_c = 6.622$ and for ethyl acetoacetate was $K_c = 7.510$

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web nmr determination of keto enol equilibrium constants the nmr spectrum below is for a acetylacetone with $CDCl_3$ as solvent the photos depict the complete nmr spectrum as well more zoomed in areas of each peak demonstrate how to calculate the equilibrium constant for keto to enol conversion K_c