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RCFL San Diego

Regional Computer Forensics Laboratory

EXAMINATION REPORT

DATE OF REPORT: November 21, 2006

EXAMINER: [REDACTED]

SUBMITTING AGENCY: Naval Criminal Investigative Service (NCIS)
Marine Corps Base Camp Pendleton, CA

AGENCY CASE #: 08MAY06-MEBJ-0357-7HMA

REFERENCES: (A) RCFL Case #06-0217-A-01

REQUEST

On November 06, 2006, Special Agent (SA) [REDACTED], NCIS, MCB Camp Pendleton, requested forensic processing of the following items:

- NCIS ECD #: 351-06 (170-06)
- Acquired From: [REDACTED]
- Description: Kodak EasyShare® digital camera

SA [REDACTED] requested forensic processing of the following item, at the request of military defense counsel, for the following data:

- Any digital images contained within the camera.

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SUMMARY

The item was examined per the case agent's request. The examination was limited to the identification and review of data consisting of digital images. The results are as follows:

1. Graphics files (one JPEG digital still image, one .MOV digital movie) consisting of digital photographs were located on the camera's internal memory media. However, the depictions are blurred and the content appears to be unidentifiable.

EXHIBIT 219

[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
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EXAMINATION

The examined device was obtained from the RCFL Evidence vault where it had been stored since its submission to the RCFL. The item was cataloged and photographed. There was a thick layer of fine dirt over the camera and obvious damage to the front lens assembly. The controls had a gritty feel to them.

As part of the cataloging procedures, each examined item was assigned a unique RCFL Bar Code Number (BCN)¹. The BCN is independent of any other evidence control device which may have been assigned to the item(s) by the submitting agency. A BCN may have been assigned to the item(s) upon their submission to the RCFL, depending on packaging. Each computer, medium or storage device is identified by its BCN throughout this document. The items and BCN's are described in the table, Attachment 1. Thumbnail images of the photographs are included as Attachment 2.

Digital Image Files (Graphics)

Digital image files were reviewed for content, file attributes (name, date/time) and camera Exif data. One digital (still) image file and one digital movie file were located on the camera. Both files contained unintelligible depictions. Details of the image files are listed in the following table:

000_0086.jpg	JPEG Still Image	3/11/2006, 4:33 AM	3/11/2006, 4:33 AM
000_0087.MOV	Digital video	5/16/2006, 2:58 AM	5/16/2006, 2:58 AM

I also located three additional files in the camera's internal memory. These are non-image files and appear to contain Kodak proprietary data regarding operation of the camera and digital image file management. I was not able to recover any additional deleted images or artifacts from the camera.

¹ The RCFL Bar Code is a number assigned to each computer or piece of media submitted to the RCFL for examination. This number is unique to that item.

² Exchangeable image file format (Exif) is a specification for image file formats used by digital cameras. Exif data can cover a wide variety of digital image information such as camera type and settings, date and time, location, and custom information. Date and time values are normally dependent on actual camera settings and may be different than file system attributes. All Exif data can normally be modified by image editing applications.

Examiner: [Redacted]	ID# 40	Approved by: [Redacted]
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Digital cameras generally provide options for numbering their files as a continuous numbering sequence or a sequence that is restarted each time new media (a memory card, for example) is inserted. This camera was set to continuous numbering. The sequence of the digital image file names on the camera suggests there were not likely any saved images between the date of the first (JPG) image file and the last (video) image file.

Camera Exif Data / Settings

Digital cameras commonly embed Exif data within the image files. The Exif data stored in the digital image files listed in the preceding table indicate they were created with an Eastman Kodak Company Kodak C360 Zoom digital camera. Exif data shows the values for creation dates and times are similar to those of their file values.³

Due to the damage to the camera, I did not create exemplar photos. However, the date and time values stored internally had a discrepancy of nearly two years.⁴

The two digital image files are copied for review onto a compact disc accompanying this narrative. A printed example of the file 000_0086.jpg is included as Attachment 3.

Attachments

Attachment 1	Evidence table	1
Attachment 2	"Thumbnail" prints of digital photographs depicting the items submitted.	7
Attachment 3	Printed example of jpg graphic file recovered from camera	1
Attachment 4	Printed screen shot of camera's date/time values	1

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³ It is possible to have Exif data regarding the image's creation date and time different than that of the file containing the image, depending on how the file was stored and managed.

⁴ The camera's date and time values at the time of initial examination (11/08/2006, 1036 hrs.) showed 1/3/2005, 9:02:50 AM. (See Attachment 4) The stored values may have been reset due to failing battery power.

Examiner: [Redacted]	ID# [Redacted]	Approved by: [Redacted]
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Case Agent Compact Discs

Included with this narrative are three (3) identical compact discs labeled *Case Agent's CD* (BCN 72357). The discs contain digital image files extracted from the media examined in this request.

CONCLUSION

I examined the submitted device and media according to the scope and subject of the case agent's investigation and requests. Any further RCFL examinations on this or other media submitted regarding this matter will be documented separately.

[Redacted signature block]

[Redacted]@rcfl.gov 858.499-7323

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Examiner	ID#	Approved by	[Redacted]
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Regional Computer Forensics Lab

RCFL #00-0217A-09

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EVIDENCE

The following items were submitted, imaged and/or examined as indicated:

RCFL PKG #	RCFL BCN	AGENCY ITEM NUMBER	ITEM DESCRIPTION	ORIGINAL #	ITEM IMAGED?	ITEM EXAMINED?	DERIVATIVE MEDIA BCN	DERIVATIVE MEDIA TYPE
00014	72096	391-08 (170-16)	Kodak EasyShare® C360 digital camera (damaged)	KCKEAG3903016	Y	Y	72399	Diskette

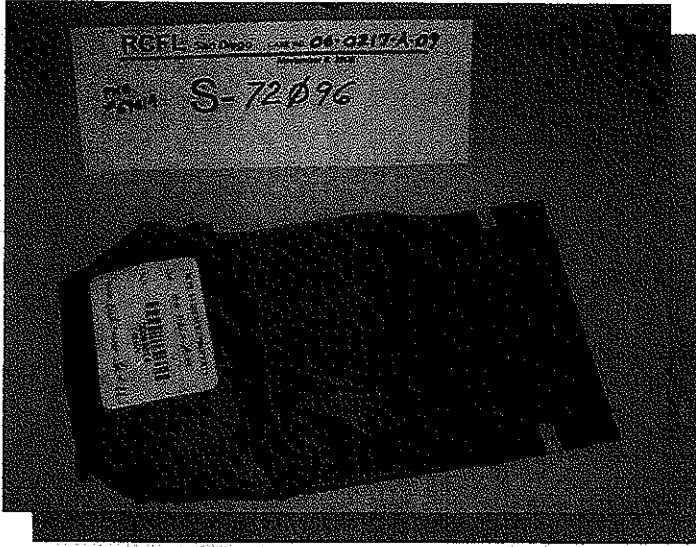
DISPOSITION

All submitted items were returned to the RCFL Evidence Vault for temporary storage after imaging. The items were later returned to the case agent or a representative thereof.

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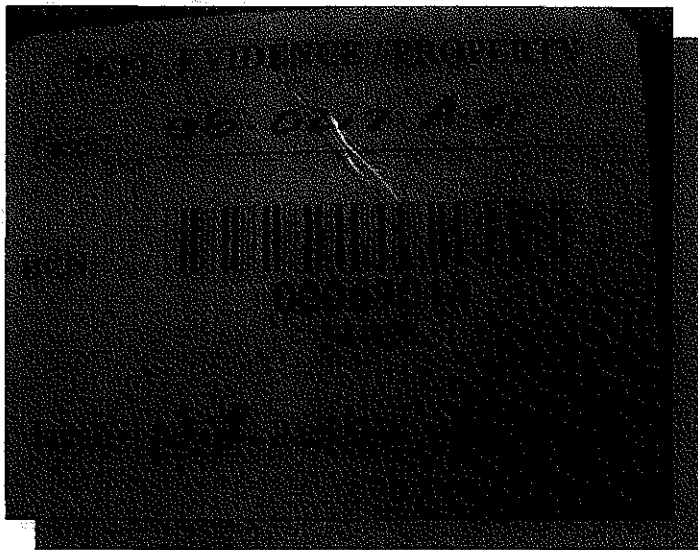
1/21/06



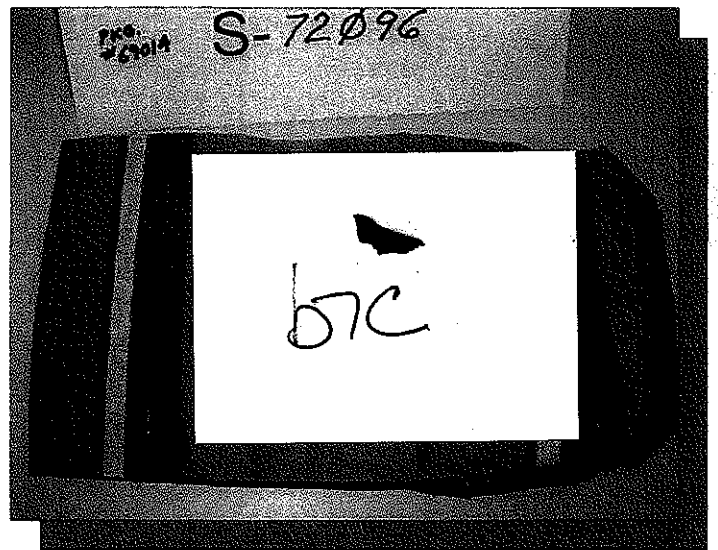
DSC04151.JPG



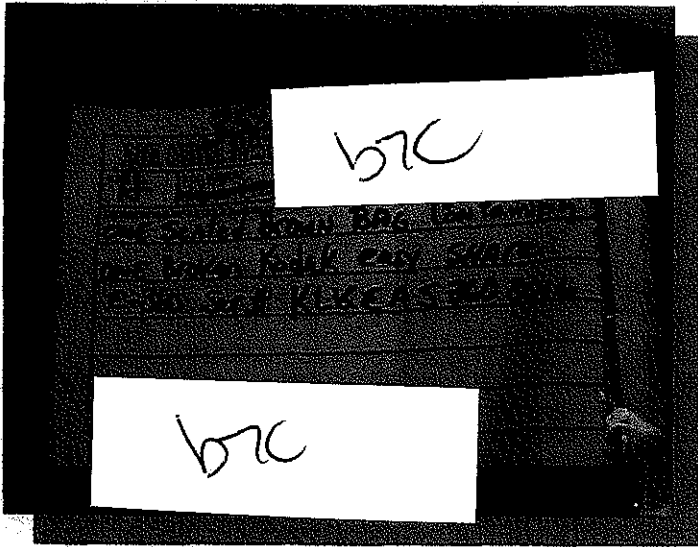
DSC04152.JPG



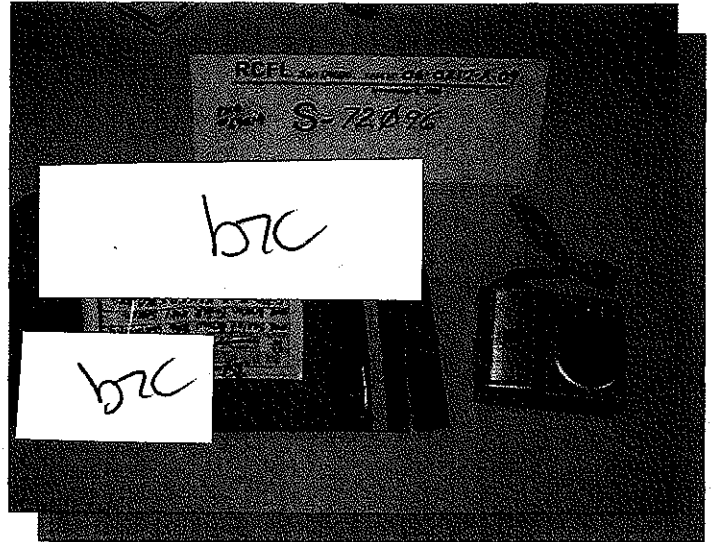
DSC04153.JPG



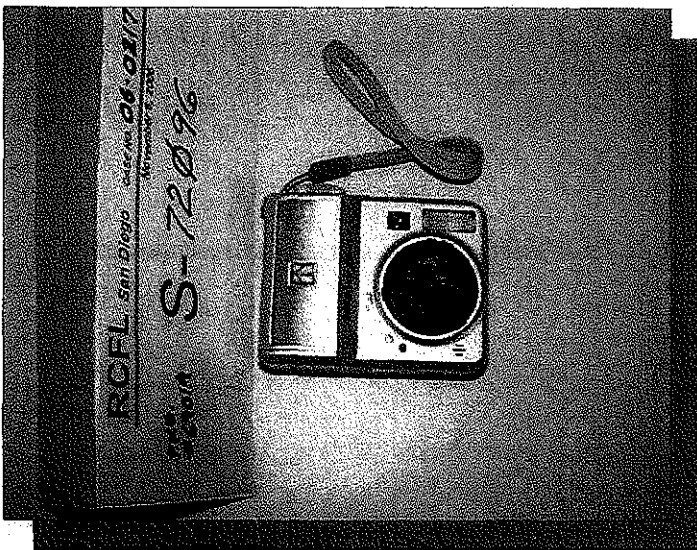
DSC04154.JPG



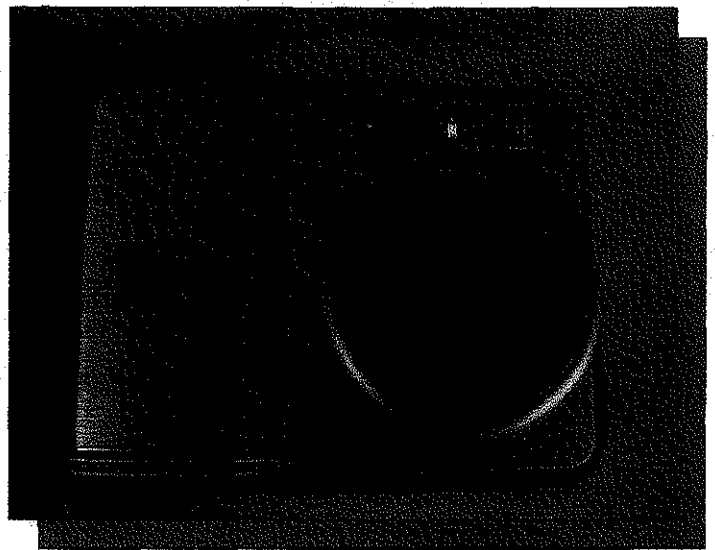
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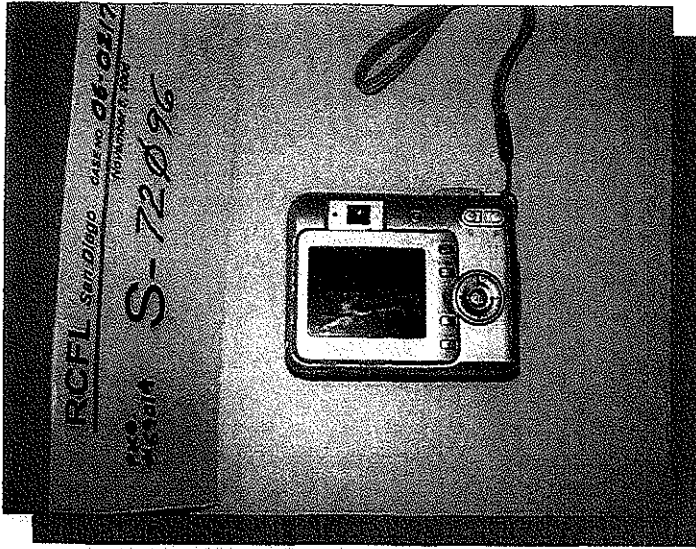
DSC04156.JPG



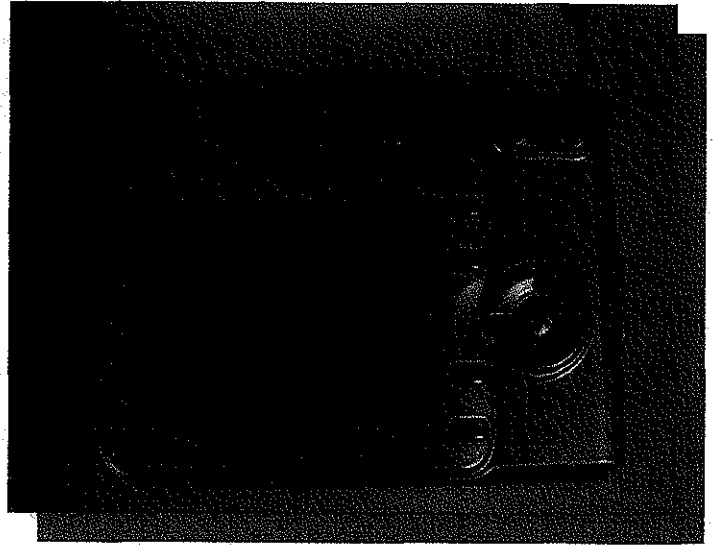
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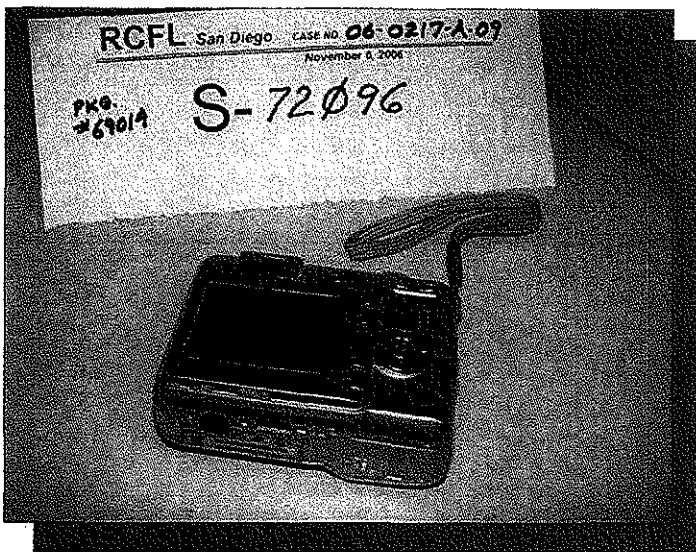
DSC04158.JPG



DSC04159.JPG



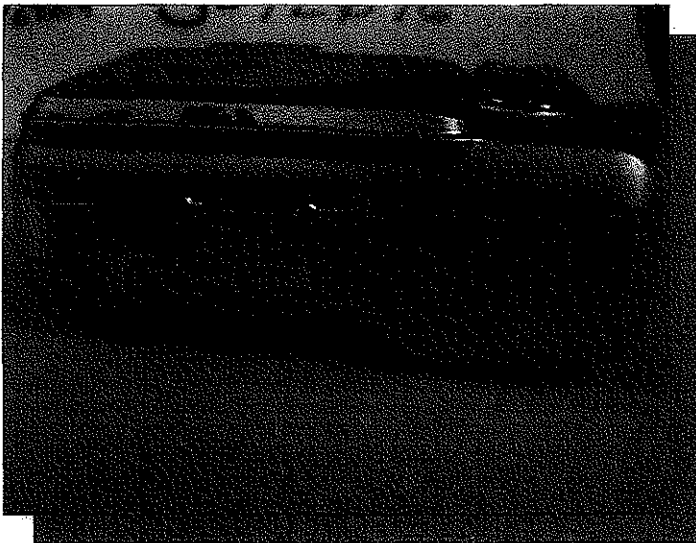
DSC04160.JPG



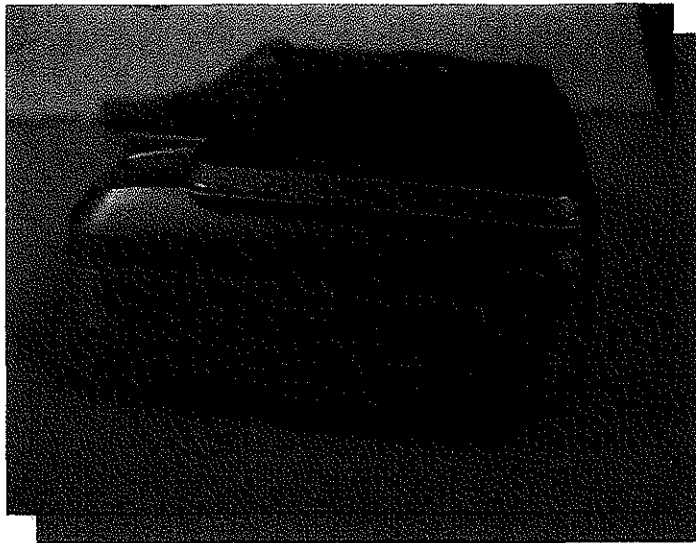
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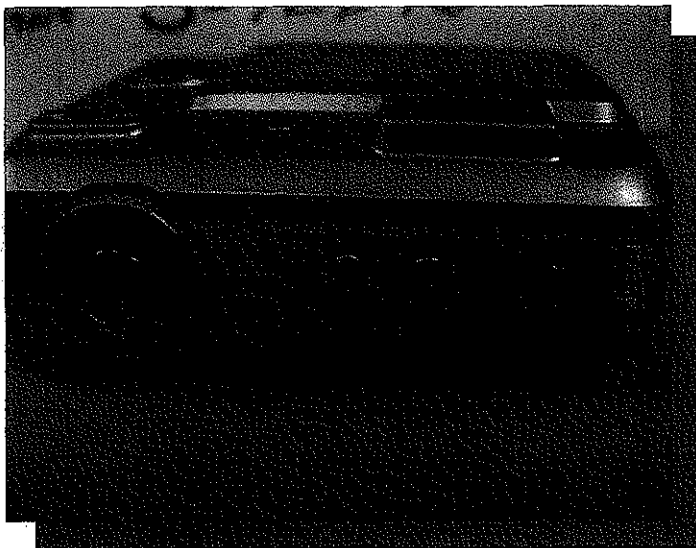
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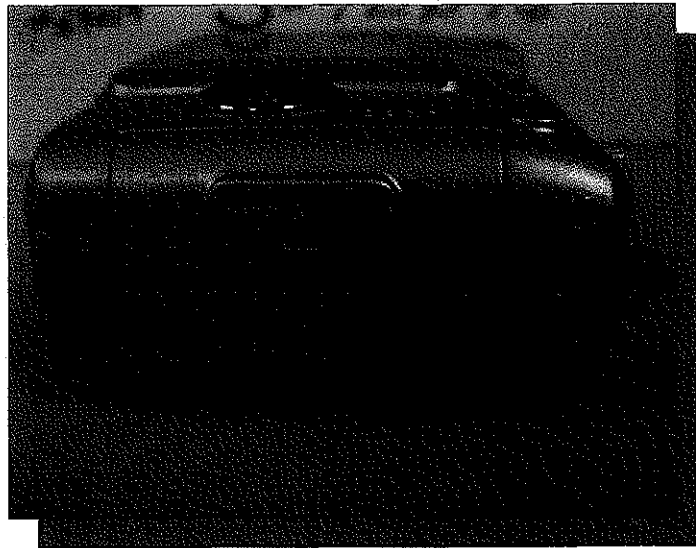
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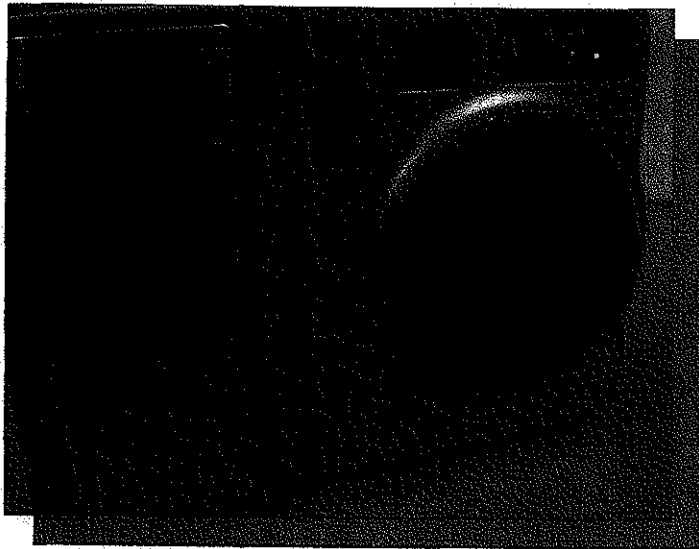
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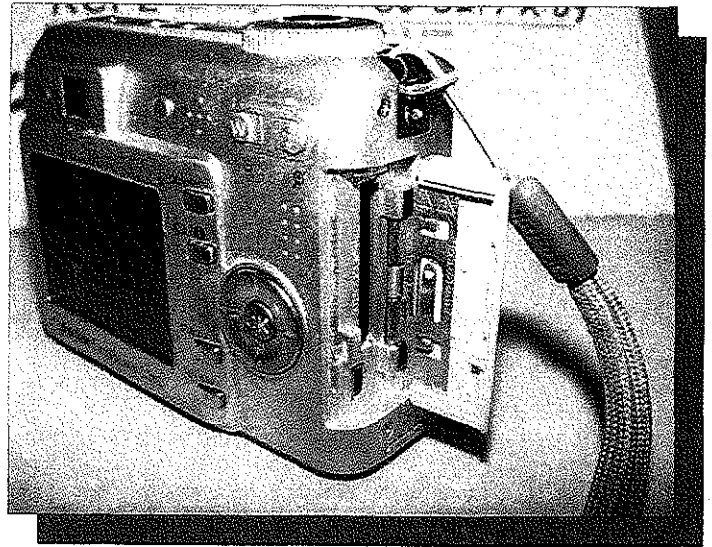
DSC04165.JPG



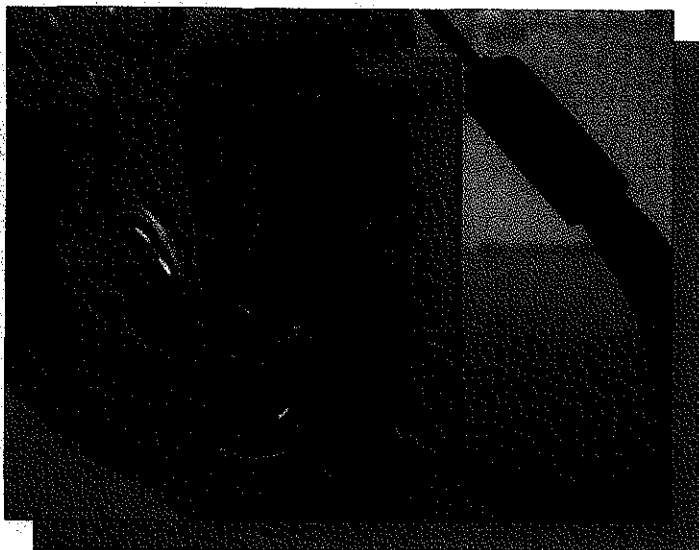
DSC04166.JPG



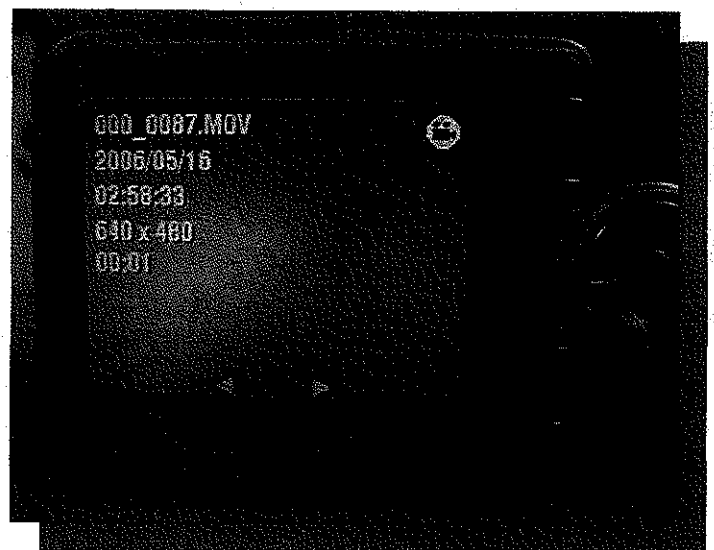
DSC04167.JPG



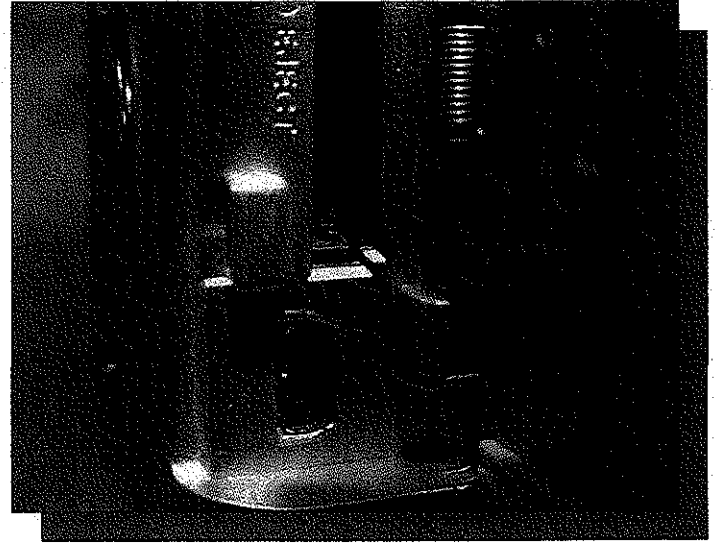
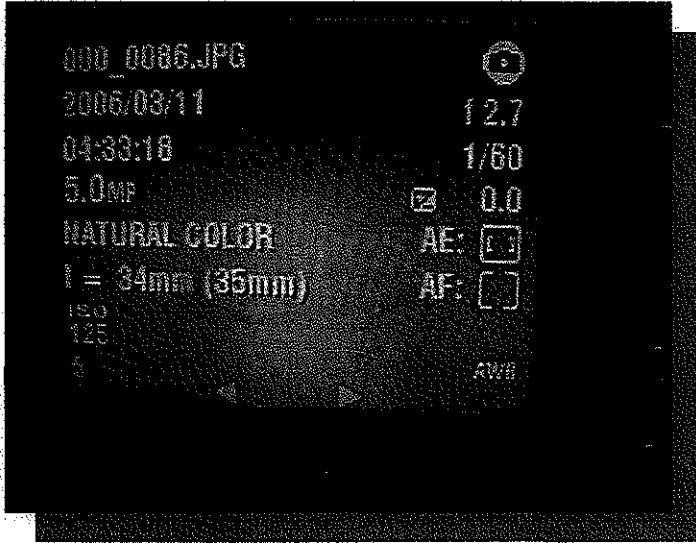
DSC04168.JPG



DSC04169.JPG

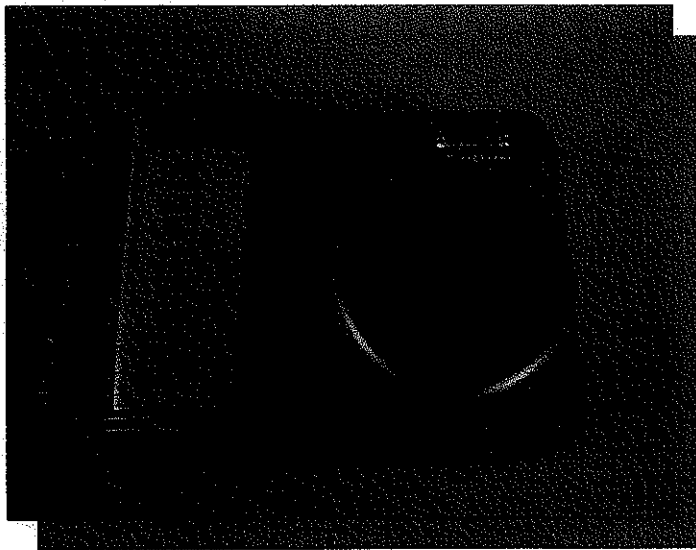


DSC04170.JPG



DSC04171.JPG

DSC04172.JPG



DSC04173.JPG

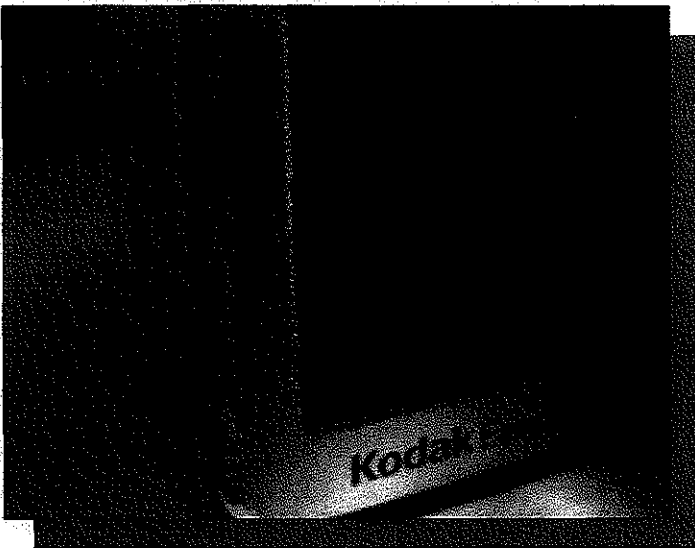
DSC04174.JPG



DSC04175.JPG

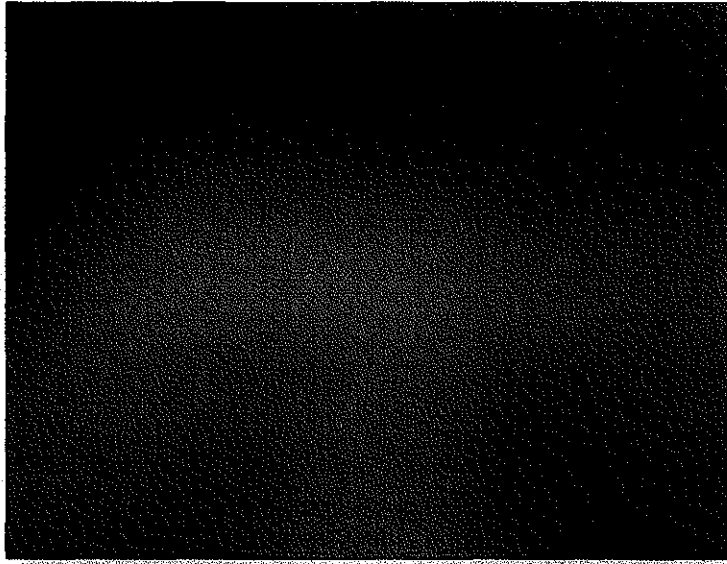


DSC04176.JPG



DSC04177.JPG

File: 000_0086.jpg Date: 03-11-2006 Size: 539K



Resolution: 2576x1932 (16.7M colors)

RCFL #06-0217-A-09 Attachment #3 Page 1 of 1

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