

## Image Forgery Detection Report

Report of img2 (2023-05-21\_19:32:00)



# **Image Forgery Detection Report**

## **EXIF Meta Data**

SourceFile: C:/Users/sonpi/OneDrive/Documents/Labs/CSDF Project/exports/img2\_2023-05-21/img2.jpg

ExifTool:ExifToolVersion: 12.62

File:FileName: img2.jpg

File:Directory: C:/Users/sonpi/OneDrive/Documents/Labs/CSDF Project/exports/img2\_2023-05-21

File:FileSize: 2971208

File:FileModifyDate: 2023:05:21 19:32:00+05:30

File:FileAccessDate: 2023:05:21 19:32:00+05:30

File:FileCreateDate: 2023:05:21 19:32:00+05:30

File:FilePermissions: 100666

File:FileType: JPEG

File:FileTypeExtension: JPG

File:MIMEType: image/jpeg

File:ExifByteOrder: II

File:ImageWidth: 2272

File:ImageHeight: 1704

File:EncodingProcess: 0

File:BitsPerSample: 8

File:ColorComponents: 3

File:YCbCrSubSampling: 2 1

JFIF:JFIFVersion: 1 1

JFIF:ResolutionUnit: 1

JFIF:XResolution: 72

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JFIF:YResolution: 72

EXIF:Make: Canon

EXIF:Model: Canon PowerShot A80

EXIF:Orientation: 1

EXIF:XResolution: 72

EXIF:YResolution: 72

EXIF:ResolutionUnit: 2

EXIF:ModifyDate: 2007:12:15 02:31:26

EXIF:YCbCrPositioning: 1

EXIF:ExposureTime: 0.0008

EXIF:FNumber: 8

EXIF:ExifVersion: 0220

EXIF:DateTimeOriginal: 2004:05:23 14:57:18

EXIF:CreateDate: 2004:05:23 14:57:18

EXIF:ComponentsConfiguration: 1 2 3 0

EXIF:CompressedBitsPerPixel: 5

EXIF:ShutterSpeedValue: 0.000803591542067366

EXIF:ApertureValue: 8

EXIF:ExposureCompensation: 0

EXIF:MaxApertureValue: 2.79795934507662

EXIF:MeteringMode: 5

EXIF:Flash: 16

EXIF:FocalLength: 7.8125

EXIF:UserComment:

EXIF:FlashpixVersion: 0100

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EXIF:ColorSpace: 1

EXIF:ExifImageWidth: 2272

EXIF:ExifImageHeight: 1704

EXIF:InteropIndex: R98

EXIF:InteropVersion: 0100

EXIF:RelatedImageWidth: 2272

EXIF:RelatedImageHeight: 1704

EXIF:FocalPlaneXResolution: 8114.285714

EXIF:FocalPlaneYResolution: 8114.285714

EXIF:FocalPlaneResolutionUnit: 2

EXIF:SensingMethod: 2

EXIF:FileSource: 3

EXIF:CustomRendered: 0

EXIF:ExposureMode: 0

EXIF:WhiteBalance: 1

EXIF:DigitalZoomRatio: 1

EXIF:SceneCaptureType: 0

EXIF:Compression: 6

EXIF:ThumbnailOffset: 2002

EXIF:ThumbnailLength: 5132

EXIF:ThumbnailImage: (Binary data 5132 bytes, use -b option to extract)

MakerNotes:MacroMode: 2

MakerNotes:SelfTimer: 0

MakerNotes:Quality: 5

MakerNotes:CanonFlashMode: 0

## **Image Forgery Detection Report**

MakerNotes:ContinuousDrive: 0

MakerNotes:FocusMode: 4

MakerNotes:RecordMode: 1

MakerNotes:CanonImageSize: 0

MakerNotes:EasyMode: 1

MakerNotes:DigitalZoom: 0

MakerNotes:Contrast: 0

MakerNotes:Saturation: 0

MakerNotes:Sharpness: 0

MakerNotes:CameraISO: 200

MakerNotes:MeteringMode: 3

MakerNotes:FocusRange: 1

MakerNotes:AFPoint: 16385

MakerNotes:CanonExposureMode: 1

MakerNotes:LensType: 65535

MakerNotes:MaxFocalLength: 23.40625

MakerNotes:MinFocalLength: 7.8125

MakerNotes:FocalUnits: 32

MakerNotes:MaxAperture: 2.85922667678394

MakerNotes:MinAperture: 8

MakerNotes:FlashActivity: 0

MakerNotes:FlashBits: 0

MakerNotes:FocusContinuous: 0

MakerNotes:AESetting: 0

MakerNotes:ZoomSourceWidth: 2272

## Image Forgery Detection Report

MakerNotes:ZoomTargetWidth: 2272

MakerNotes:SpotMeteringMode: 0

MakerNotes:PhotoEffect: 2

MakerNotes:ManualFlashOutput: 0

MakerNotes:FocalType: 2

MakerNotes:FocalLength: 7.8125

MakerNotes:FocalPlaneXSize: 7.2644

MakerNotes:FocalPlaneYSize: 5.461

MakerNotes:AutoISO: 100

MakerNotes:BaseISO: 200

MakerNotes:MeasuredEV: 15.28125

MakerNotes:TargetAperture: 8

MakerNotes:TargetExposureTime: 0.000803591542067366

MakerNotes:ExposureCompensation: 0

MakerNotes:WhiteBalance: 1

MakerNotes:SlowShutter: 0

MakerNotes:SequenceNumber: 0

MakerNotes:OpticalZoomCode: 0

MakerNotes:FlashGuideNumber: 0

MakerNotes:FlashExposureComp: 0

MakerNotes:AutoExposureBracketing: 0

MakerNotes:AEBBracketValue: 0

MakerNotes:ControlMode: 1

MakerNotes:FocusDistanceUpper: 1.6

MakerNotes:FocusDistanceLower: 0

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MakerNotes:FNumber: 8

MakerNotes:ExposureTime: 0.000876322790528861

MakerNotes:BulbDuration: 0

MakerNotes:CameraType: 250

MakerNotes:AutoRotate: 0

MakerNotes:NDFilter: 0

MakerNotes:SelfTimer2: 0

MakerNotes:FlashOutput: 0

MakerNotes:NumAFPoints: 9

MakerNotes:ValidAFPoints: 9

MakerNotes:CanonImageWidth: 2272

MakerNotes:CanonImageHeight: 1704

MakerNotes:AFImageWidth: 2272

MakerNotes:AFImageHeight: 212

MakerNotes:AFAreaWidth: 409

MakerNotes:AFAreaHeight: 38

MakerNotes:AFAreaXPositions: -410 0 410 -410 0 410 -410 0 410

MakerNotes:AFAreaYPositions: -41 -41 -41 0 0 0 41 41 41

MakerNotes:AFPointsInFocus: 452

MakerNotes:PrimaryAFPoint: 6

MakerNotes:ThumbnailImageValidArea: 0 0 0 0

MakerNotes:CanonImageType: IMG:PowerShot A80 JPEG

MakerNotes:CanonFirmwareVersion: Firmware Version 1.00

MakerNotes:FileNumber: 1000015

MakerNotes:OwnerName:

## **Image Forgery Detection Report**

MakerNotes:CanonModelID: 20185088

Composite:DriveMode: 2

Composite:ISO: 200

Composite:Lens: 7.8125

Composite:ShootingMode: 1

Composite:Aperture: 8

Composite:ImageSize: 2272 1704

Composite:LensID: 65535

Composite:Megapixels: 3.871488

Composite:ScaleFactor35efl: 4.86688586114374

Composite:ShutterSpeed: 0.0008

Composite:Lens35efl: 38.0225457901855

Composite:CircleOfConfusion: 0.0061736111111111

Composite:DOF: 0.487499220001248 2.22858772909882

Composite:FOV: 50.6661042354046

Composite:FocalLength35efl: 38.0225457901855

Composite:HyperfocalDistance: 1.23580743813273

Composite:LightValue: 15.2877123795494

# Image Forgery Detection Report

## Clone Check



## Image Forgery Detection Report

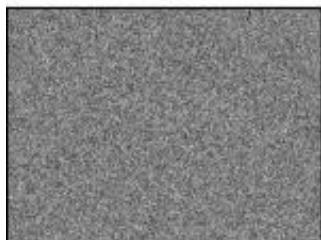
### Error Level Analysis



# Image Forgery Detection Report

## Bit Wise Plane level Noise Analysis

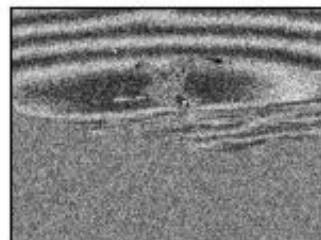
Bit Plane 0



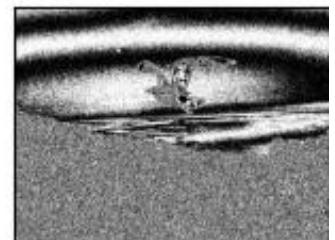
Bit Plane 1



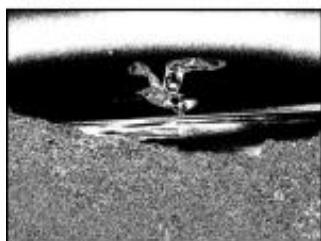
Bit Plane 2



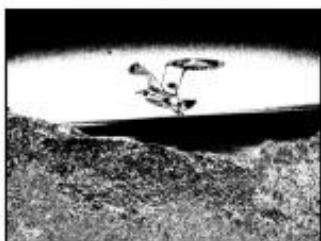
Bit Plane 3



Bit Plane 4



Bit Plane 5



Bit Plane 6



Bit Plane 7



## Image Forgery Detection Report

### Median noise inconsistencies



# Image Forgery Detection Report

## Min Max Noise Analysis

