

Recording Book

Jeffrey Girard

2022-07-28

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Preface

This is a Quarto book.

To learn more about Quarto books visit <https://quarto.org/docs/books>.

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1 Introduction

This is a book created from markdown and executable code.

See Knuth (1984) for additional discussion of literate programming.

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2 Image Capture

3 Image Accessories

4 Video Capture

4.1 Parts of a Digital Camera

Body...

Sensor...

Lens...

4.2 Form Factors

4.2.1 Portability-focused

Smartphones...

Webcams...

Compact (point-and-shoot) cameras...

4.2.2 Video-focused

Camcorders...

Cinema cameras...

Studio cameras...

4.2.3 Hybrid

DSLR cameras...

Mirrorless cameras...

4.2.4 Special-use

Action (adventure) cameras...

Security (PTZ) cameras...

Industrial cameras...

4.3 Image Sensor Formats

Full frame... ($36 \times 24\text{mm}$, 864mm^2 , 1.0 crop factor)

APS-C Standard... ($23.6 \times 15.7\text{mm}$, 370mm^2 , 1.5 crop factor)

APS-C Canon... ($22.2 \times 14.8\text{mm}$, 329mm^2 , 1.6 crop factor)

Micro Four Thirds... ($17.3 \times 13\text{mm}$, 225mm^2 , 2.0 crop factor)

Smaller sensors... (from 1.2 to 116 mm^2 , 2.7 to 27 crop factor)

Larger sensors... (Medium format... $53.7 \times 40.2\text{mm}$, 2159mm^2 , 0.65 crop factor)

4.4 Chroma Subsampling

4.5 Color Depth

4.6 Resolution

4.7 Frame Rate

4.8 Time Limit

4.9 Input/Output

4.9.1 Recording Media

SD cards...

SSD drives...

Recorders...

4.9.2 Capture Devices

USB connections...

USB dongles...

PCI cards...

4.9.3 File Formats

4.10 Recommendations

4.10.1 High Budget

4.10.2 Medium Budget

4.10.3 Low Budget

5 Video Accessories

5.1 Camera Accessories

5.2 Mounting Options

5.3 Lighting

6 Audio Capture

6.1 Types of Microphone

Dynamic...

Large diaphragm condenser...

Small diaphragm condenser...

6.2 Polar Patterns

Omnidirectional...

Cardioid...

Figure Eight...

Supercardioid...

Hypercardioid...

Lobar...

6.3 Form Factors

Handheld...

Headworn...

Lavalier (lapel)...

On-camera...

Boom...

6.4 Input/Output

1/8" (3.5mm) TRS...

1/8" (3.5mm) TRRS...

1/4" TRS...

XLR...

3-Pin Lemo...

Wireless...

6.5 Microphone Power

Passive...

Plug-in power...

Phantom power...

6.6 Audio Devices

Mixers...

Interfaces...

Recorders...

6.7 Recommendations

6.7.1 High Budget

6.7.2 Medium Budget

6.7.3 Low Budget

7 Audio Accessories

7.1 Sound treatment

8 Summary

In summary, this book has no content whatsoever.

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References

Knuth, Donald E. 1984. “Literate Programming.” *Comput. J.* 27 (2): 97–111. <https://doi.org/10.1093/comjnl/27.2.97>.