

Table of Contents

Foreword by Ernie Brooks ix

Introduction x

1

Equipment 6

- 1.1 Digital Single-Lens Reflex Cameras 7
- 1.2 Underwater Camera Housings 12
- 1.3 Flash Units 17
- 1.4 Focus Lights 20
- 1.5 Compact Cameras 21
- 1.6 Preparing Your Equipment 23
- 1.7 Protecting Your Equipment 27
- 1.8 Transporting Your Equipment 30

2

The Basics 38

- 2.1 Diving and Taking Pictures 38
- 2.2 The Behavior of Light Under Water 41
- 2.3 Aperture, Shutter Speed, and ISO 42
- 2.4 JPEG or RAW 45
- 2.5 White Balance 47
- 2.6 Flash Techniques 49
- 2.7 TTL or Manual 51
- 2.8 Histogram 53

Case Studies

- 1: The Meeting 4
- 2: Space Gliders 36
- 3: Tea for Two 58
- 4: The Playmate 107
- 5: Communal Living 151
- 6: Dive by Night 154
- 7: Proximity Trigger 176
- 8: The Dark Knight 194

3

Composition 60

- 3.1 Perspective 63
- 3.2 The Golden Ratio 65
- 3.3 Lines and Diagonals 66
- 3.4 Centering 68
- 3.5 Contrast 70
- 3.6 Color 72
- 3.7 Exceptions 75
- 3.8 Creativity 76
- 3.9 Learning to Compose 80

Guest Photographers Gallery

- Richard Salas 84
- Ernie Brooks 88
- Alex Mustard 95
- Imran Ahmad 98
- Eric Cheng 103

4

Wide-Angle Photography 108

- 4.1 Lenses 109
- 4.2 Exposure 111
- 4.3 Using Flash 113
- 4.4 Finding Subjects 116
- 4.5 Shooting Distance 117
- 4.6 Getting Close 119
- 4.7 Wrecks 121
- 4.8 Split Waterline Photos 125
- 4.9 Large Sea Life 129
- 4.10 Reefs 132
- 4.11 Close Range, Wide Angle 134
- 4.12 Backlight 136
- 4.13 Models 139
- 4.14 Motion Blur 142
- 4.15 Recording Video 146

Macro Photography 156

- 5.1 Lenses 157
- 5.2 Macro vs. Closeup 158
- 5.3 Settings 159
- 5.4 Depth of Field 161
- 5.5 Flash Position 163
- 5.6 Background 165
- 5.7 Focusing 166
- 5.8 Super Macro 168
- 5.9 Subjects 169
- 5.10 Light-Shaping Tools 171

Appendix 196

- 7.1 Behind the Scenes 196
- 7.2 Acknowledgements 197
- 7.3 Travel Checklist 198
- 7.4 Pre-dive Checklist 200
- 7.5 Ready, Set, Go 201
- 7.6 Index 204

6

Image Editing 178

- 6.1 Workflow 179
- 6.2 Selecting and Evaluating Pictures 182
- 6.3 RAW Conversion 183
- 6.4 Detailed Image Editing 185
- 6.5 Archiving 189