

Contents

INTRODUCTION	1
CHAPTER 1: PRELIMINARY SETUP	3
Charging and Inserting the Battery	3
Choosing and Inserting a Memory Card	4
Setting the Date, Time, and Language	7
CHAPTER 2: BASIC OPERATIONS	8
Introduction to Main Controls	8
Top of Camera	8
Back of Camera	9
Front of Camera	10
Right Side of Camera	11
View of Camera with Lens	11
Bottom of Camera	11
Taking Pictures in Intelligent Auto Mode	11
Variations from Fully Automatic	14
Focus	14
Focus Modes	14
Other Settings	15
Flash	15
Drive Mode: Self-Timer and Continuous Shooting	16
Overview of Movie Recording	17
Viewing Pictures	18
Review While in Shooting Mode	18
Reviewing Images in Playback Mode	18
Playing Movies	19
CHAPTER 3: SHOOTING MODES FOR STILL IMAGES	20
Intelligent Auto Mode	20
Superior Auto Mode	21
Program Mode	22

Aperture Priority Mode	23
Shutter Priority Mode	25
Manual Exposure Mode	26
Scene Mode	29
Portrait	30
Sports Action	31
Macro	31
Landscape	32
Sunset	32
Night Scene	32
Hand-Held Twilight	33
Night Portrait	33
Anti Motion Blur	34
Sweep Panorama Mode	34
Memory Recall Mode	37

CHAPTER 4: THE CAMERA SETTINGS1 MENU

39

File Format (Still Images)	41
JPEG Quality	43
JPEG Image Size	43
Aspect Ratio	44
Panorama Size and Panorama Direction	45
Long Exposure Noise Reduction	45
High ISO Noise Reduction	46
Color Space	46
Lens Compensation	46
Shading Compensation	46
Chromatic Aberration Compensation	47
Distortion Compensation	47
Auto Mode	47
Scene Selection	47
Superior Auto Image Extraction	47
Drive Mode	48
Single Shooting	48
Continuous Shooting	48
Self-Timer	50
Self-Timer (Continuous)	51
Continuous Exposure Bracketing	51
Single Exposure Bracketing	52
White Balance Bracketing	53
DRO Bracketing	53
Bracket Settings	53
Interval Shooting Function	54
Recall	56
Memory	56
Register Custom Shooting Settings	56
Focus Mode	58
Single-Shot AF	58
Automatic AF	59
Continuous AF	59
DMF	60
Manual Focus	60
Priority Set in AF-S	62
Priority Set in AF-C	62
Focus Area	62
Wide	63

- Zone 63
 - Center 64
 - Flexible Spot 64
 - Expand Flexible Spot 65
 - Tracking 66
- Focus Area Limit 67
- Switch Vertical/Horizontal AF Area 67
- AF Illuminator 68
- Face/Eye AF Settings. 68
- AF w/Shutter. 69
- Pre-AF 70
- Eye-Start AF 70
- AF Area Registration. 70
- Delete Registered AF Area. 71
- AF Area Auto Clear. 71
- Display Continuous AF Area. 71
- Circulation of Focus Point 71
- AF Micro Adjustment 71
- Exposure Compensation 72
- ISO Setting 73
 - ISO. 73
 - Multi Frame Noise Reduction 74
 - ISO Range Limit. 75
 - ISO Auto Minimum Shutter Speed. 76
- Metering Mode 76
- Face Priority in Multi Metering 78
- Spot Metering Point 78
- Exposure Step 78
- AEL with Shutter. 78
- Exposure Standard Adjustment. 79
- Flash Mode. 80
 - Flash Off. 80
 - Autoflash 80
 - Fill-Flash. 80
 - Slow Sync 81
 - Rear Sync 81
- Flash Compensation. 82
- Exposure Compensation Setting 83
- Wireless Flash 83
 - Using Sony's Light-Based Wireless Protocol 83
 - Using Sony's Radio-Based Flash System 84
- Red Eye Reduction. 85
- White Balance 85
 - Priority Set in Auto White Balance 88
- DRO/Auto HDR 88
- Creative Style 91
 - Adjusting Contrast, Saturation, and Sharpness 92
 - Standard 94
 - Vivid 94
 - Neutral 94
 - Clear. 94
 - Deep. 94
 - Light. 94
 - Portrait 94
 - Landscape. 94
 - Sunset. 95
 - Night Scene 95

Autumn Leaves	95
B/W	95
Sepia	95
Picture Effect	95
Off	96
Toy Camera	96
Pop Color	96
Posterization	96
Retro Photo	97
Soft High-Key	97
Partial Color	97
High Contrast Monochrome	98
Soft Focus	98
HDR Painting	98
Rich-Tone Monochrome	99
Miniature Effect	99
Watercolor	100
Illustration	100
Picture Profile	100
Soft Skin Effect	104
Shutter Auto White Balance Lock	105
Focus Magnifier	106
Focus Magnification Time	107
Initial Focus Magnification	107
AF in Focus Magnifier	107
MF Assist	108
Peaking Setting	108
Face Registration	109
Registered Faces Priority	109
Smile Shutter	109
Auto Object Framing	110
Self-portrait Timer	111

CHAPTER 5: THE CAMERA SETTINGS2 MENU

112

Exposure Mode (Movies)	112
Exposure Mode (S & Q)	112
File Format (Movies)	112
Record Setting	112
S & Q Settings	113
Proxy Recording	113
AF Drive Speed	113
AF Tracking Sensitivity	113
Auto Slow Shutter	113
Initial Focus Magnification (Movies)	113
Audio Recording	113
Audio Recording Level	113
Audio Level Display	114
Wind Noise Reduction	114
Marker Display	114
Marker Settings	114
Movie w/Shutter	114
Silent Shooting (Still Images)	114
E-Front Curtain Shutter	115
Release without Lens	115
Release without Card	115
SteadyShot	115

Zoom	116
Zoom Setting	117
Zoom Ring Rotate	119
Display Button	120
Finder/Monitor.	122
Finder Frame Rate	122
Zebra Setting	122
Grid Line	124
Rule of Thirds Grid	124
Square Grid	124
Diagonal Plus Square Grid	125
Exposure Settings Guide	125
Live View Display	125
Auto Review	126
Custom Key (Still Images)	127
AF/MF Button	128
Recall Custom Hold 1, 2, and 3	130
AF/MF Control Hold	130
AF/MF Control Toggle	130
Focus Standard	130
Registered AF Area Hold/Registered AF Area Toggle/Registered AF Area + AF On.	131
Tracking On	131
Eye AF	131
Subject Detection	132
Switch Right/Left Eye	132
AF On.	132
Focus Hold	132
AEL Hold	133
AEL Toggle	133
Spot AEL Hold	133
Spot AEL Toggle	133
FEL Lock Hold/FEL Lock Toggle/FEL Lock/AEL Hold/FEL Lock/AEL Toggle	133
AWB Lock Hold/AWB Lock Toggle.	134
In-Camera Guide.	134
Movie.	134
Aperture Preview	135
Shot Result Preview	135
Bright Monitoring	135
My Dial 1/2/3 During Hold	135
My Dial 1—2—3	136
Toggle My Dial 1/2/3.	136
Playback	136
Not Set	136
AEL Button	136
Custom Button 2	136
Center Button.	136
Left Button	136
Right Button	137
Down Button	137
Custom Button 1	137
Focus Hold Button	137
Custom Key (Movies)	137
AF/MF, AEL, Custom 1 and 2, and Focus Hold Button:	137
Center Button.	138
Left, Right, and Down Buttons	138
Custom Key (Playback)	138
Function Menu Settings.	139

My Dial Settings	140
Dial/Wheel Setup	141
Av/Tv Rotate	141
Dial/Wheel EV Compensation	141
Function of Touch Operation	142
Touch Shutter	142
Touch Focus	142
Touch Tracking	142
Movie Button	143
Dial/Wheel Lock	143
Audio Signals	144

CHAPTER 6: PHYSICAL CONTROLS

145

Shutter Button	145
On/Off Switch	145
Mode Dial	145
Control Dial	146
Custom Button 1	146
Multi Interface Shoe	146
Sensor Plane Indicator	146
Built-in Flash	147
Viewfinder and Eye Sensor	147
Diopter Adjustment Wheel	147
Flash Pop-up Button	147
Menu Button	147
AF/MF/AEL Button and AF/MF/AEL Switch Lever	148
Function Button	148
Function Menu	148
Quick Navi System	149
Dial/Wheel Lock	150
Send to Smartphone	150
Playback Button	150
Custom Button 2/Delete Button	151
Movie Button	151
Control Wheel and Its Buttons	151
Control Wheel	152
Center Button	152
Direction Buttons	153
Up Button: Display	153
Left Button	153
Right Button	153
Down Button	153
LCD Monitor	153
Tilting Features	153
Touch Screen Features	154
Ports for Audio, HDMI, and Other Functions	156
Speaker	156
NFC Active Area	156
Lens Mount and Lens Release Button	157
AF Illuminator/Self-Timer Lamp	157
Infrared Remote Sensor	157
Microphone	157
Bottom of Camera	157

CHAPTER 7: PLAYBACK 158

Normal Playback.	158
Index View and Enlarging Images.	158
Playback Display Screens	159
Deleting Images with the Delete Button	161
Playback Menu.	161
Protect.	161
Rotate	162
Delete	162
Rating	163
Rating Set (Custom Key)	163
Specify Printing	164
Photo Capture	165
Enlarge Image.	166
Enlarge Initial Magnification	166
Enlarge Initial Position	166
Continuous Playback for Interval Shooting/Playback Speed for Interval Shooting	166
Slide Show	167
View Mode	167
Image Index.	168
Display as Group	169
Display Rotation	169
Image Jump Setting	170

CHAPTER 8: THE SETUP MENU AND MY MENU 171

Setup Menu	171
Monitor Brightness	171
Viewfinder Brightness	172
Finder Color Temperature	172
Gamma Display Assist	172
Volume Settings	173
Tile Menu	173
Mode Dial Guide	173
Delete Confirmation	173
Display Quality	174
Power Save Start Time	174
Auto Power Off Temperature.	175
NTSC/PAL Selector	175
Cleaning Mode	175
Touch Operation	176
Touch Panel/Pad	176
Touch Pad Settings	176
Demo Mode.	177
TC/UB (Time Code/User Bit) Settings	177
TC/UB Display Setting	178
TC Preset	179
UB Preset	179
TC Format	179
TC Run	179
TC Make	179
UB Time Record	179
IR Remote Control	180
HDMI Settings.	180
HDMI Resolution.	180
24p/60p Output	180

HDMI Information Display	180
TC Output	181
Rec Control.	181
CTRL for HDMI	181
4K Output Select	182
Memory Card + HDMI	182
HDMI Only (30p)	182
HDMI Only (24p)	182
HDMI Only (25p)	182
USB Connection	182
USB LUN Setting	184
USB Power Supply	184
PC Remote Settings.	184
Language	185
Date/Time Setup	185
Area Setting.	185
Copyright Info	186
Format.	186
File Number.	187
Set File Name	187
Select REC Folder	187
New Folder	188
Folder Name	188
Recover Image Database	188
Display Media Information	189
Version	189
Setting Reset	189
My Menu	190

CHAPTER 9: MOTION PICTURES

192

Movie-Making Overview	192
Details of Settings for Shooting Movies	193
Movie-Related Menu Options	193
Exposure Mode (Movies)	193
Program Auto	194
Aperture Priority	194
Shutter Priority	194
Manual Exposure	195
Exposure Mode (S & Q)	195
File Format (Movies)	196
XAVC S 4K	196
XAVC S HD.	196
AVCHD.	196
Record Setting	196
XAVC S 4K	196
XAVC S HD.	197
AVCHD.	198
S & Q Settings	198
Proxy Recording	198
AF Drive Speed.	198
AF Tracking Sensitivity.	198
Auto Slow Shutter	199
Initial Focus Magnification (Movies)	199
Audio Recording.	199
Audio Recording Level	199
Audio Level Display	200

- Wind Noise Reduction 200
- Marker Display 200
- Marker Settings 201
- Movie with Shutter 201
- Custom Key (Movies) 202
- Movie Button. 202
- Effects of Mode Dial Position on Recording Movies 202
- Effects of Camera Settings1 Menu Settings on Recording Movies 204
- Effects of Physical Controls When Recording Movies 206
- Slow and Quick Motion Recording 208
- Recording to an External Video Recorder. 209
- Capturing Still Images from Video Recording 210
- Summary of Options for Recording Movies 211
- Other Settings and Controls for Movies 212
- Movie Playback 213
- Editing Movies 214

CHAPTER 10: WI-FI, BLUETOOTH, AND OTHER TOPICS 215

- Wi-Fi Features 215
 - Sending Images to a Computer 215
 - Sending Images to a Smartphone 216
 - Connecting with NFC. 217
 - Using a Smartphone or Tablet as a Remote Control 218
- Bluetooth Features 220
- The Network Menu 221
 - Send to Smartphone Function. 222
 - Send to Computer 222
 - View on TV 222
 - Control with Smartphone 223
 - Airplane Mode 223
 - Wi-Fi Settings 223
 - WPS Push. 223
 - Access Point Settings 223
 - Display MAC Address 223
 - SSID/PW Reset 224
 - Bluetooth Settings 224
 - Location Information Link Setting 224
 - Edit Device Name. 224
 - Reset Network Settings. 225
 - Bluetooth Remote Control 225
- Other Topics 225
 - Street Photography. 225
 - Infrared Photography. 226
 - Astrophotography and Digiscoping 227
 - Connecting to a Television Set. 228

APPENDIX A: LENSES AND ACCESSORIES 229

- Lenses 229
 - E-mount Lenses for APS-C Sensor Cameras 229
 - E-mount Lenses for Full-frame Cameras 230
 - A-mount Lenses. 230
- Cases 231
- Batteries and Chargers 232
- AC Adapters and Other Power Sources. 232
- External Flash Units and Flash Triggers 234

Remote Controls 237
External LCD Monitor 239
External Microphones 240
External Video Recorder 241

APPENDIX B: QUICK TIPS 243

APPENDIX C: RESOURCES FOR FURTHER INFORMATION 247

Websites and Videos 247
 Digital Photography Review 247
 Reviews and Demonstrations of the a6400 247
 White Knight Press 247
 The Official Sony Site 247
Other Resources 248

Index 249