



## Sony a7RIII Settings Guide

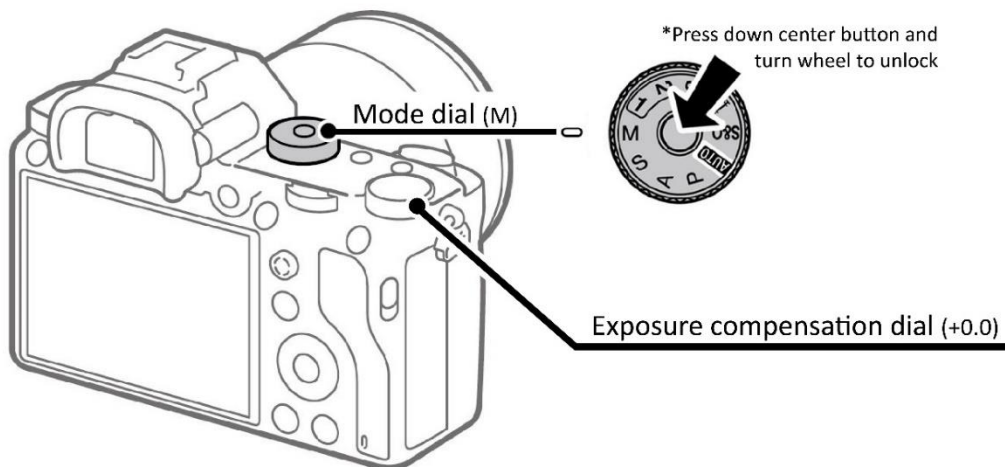
Revision: 2020-06-17

### Introduction

This document goes through the recommended camera settings to use the Sony a7RIII with a GeoSnap system in an aerial mapping mission. **You may need/want different settings than what our outlined in this document, so please do what is appropriate for your mission.**

#### 1. Set mode dial and exposure compensation dial

Turn mode dial to M (for Manual). Turn exposure compensation to +0.0

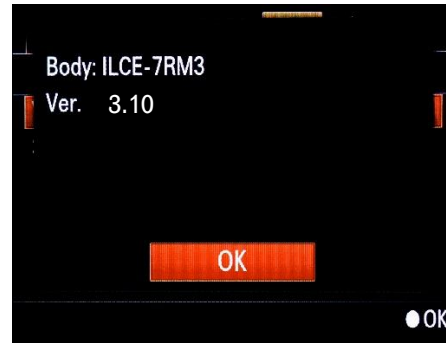


#### 2. Turn on camera

The power switch is located on right side of the camera under shutter release button.

### 3. Check firmware

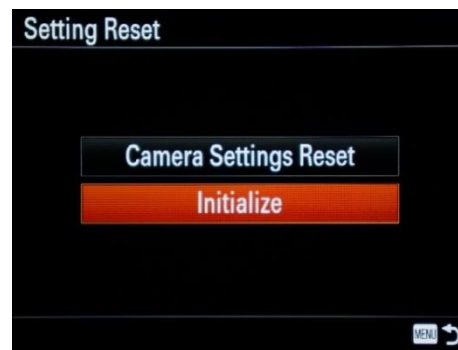
First press the Menu button, then navigate to the Setup menu. On page 7, select **Version** to view which firmware version is installed on the camera.



If it is not firmware version 3.10, go to <https://www.sony.com/electronics/support/downloads/00016493> to update.

### 4. Reset settings to default

First press the menu button, then navigate to Setup menu. On page 7 select **Setting Reset > Initialize > Enter > OK**. After pressing OK, the camera will reboot.



### 5. Set language, Area/Date/Time

Once the camera reboots, select your Language, Time Zone, Daylight Savings setting, Date/Time, and your preferred Date Format.

## 6. Menu settings

Now that the settings are set to default, use the tables below to see which default settings should be changed to the desired settings. Start by pressing the menu button to access settings.



### Quality/Image Size1

1/14

MENU items	Default setting	Desired setting
File Format	JPEG	JPEG
RAW File Type	Compressed	Compressed
JPEG Quality	Fine	Fine
JPEG Image Size	L: 42M	L: 42M
Aspect Ratio	3:2	3:2
<b>APS-C/Super 35mm (  Shooting)</b>	Auto	<b>Manual</b>
APS-C/Super 35mm (  Shoot.: Manual)	Off	Off



### Quality/Image Size2

2/14

MENU items	Default setting	Desired setting
Long Exposure NR	On	On
High ISO NR	Normal	Normal
Color Space	sRGB	sRGB
Lens Comp. (Shading Comp.)	Auto	Auto
Lens Comp. (Chro. Aber. Comp.)	Auto	Auto
Lens Comp. (Distortion Comp.)	Off	Off



### Shoot Mode/Drive1

3/14

MENU items	Default setting	Desired setting
Drive Mode	Single Shooting	Single Shooting
Bracket Settings		<i>not applicable</i>
Px. Shift Multi Shoot.	Off	Off
1,  2 Recall		<i>not applicable</i>
1,  2 Memory		<i>not applicable</i>
Select Media	Slot 1	Slot 1



## Shoot Mode/Drive2

4/14

MENU items	Default setting	Desired setting
Reg Cust Shoot Set		<i>not applicable</i>
Intvl. Shoot. Func.	Off	<i>not applicable</i>



## AF1

5/14

MENU items	Default setting	Desired setting
<b>Focus Mode</b>	Single-shot AF	<b>Manual Focus</b>
Priority Set in AF-S	Balanced Emphasis	Balanced Emphasis
Priority Set in AF-C	Balanced Emphasis	Balanced Emphasis
Focus Area	Wide	Wide
Focus Settings		<i>not applicable</i>
Swt. V/H AF Area	Off	Off



## AF2

6/14

MENU items	Default setting	Desired setting
AF Illuminator	Auto	Auto
Center Lock-on AF	Off	Off
Face/Eye AF Set.		<i>not applicable</i>
AF Track Sens	—	—
AF System	—	—
AF w/ shutter	On	On



## AF3

7/14

MENU items	Default setting	Desired setting
Pre-AF	Off	Off
Eye-Start AF	—	—
AF Area Regist.	Off	Off
Del. Reg. AF Area		<i>not applicable</i>
AF Area Auto Clear	Off	Off
Disp. cont. AF area	On	On



### AF4

8/14

MENU items	Default setting	Desired setting
Phase Detect. Area	Off	Off
AF Micro Adj. (AF Adjustment Set.)		<i>not applicable</i>
Aperture Drive in AF	—	—



### Exposure1

9/14

MENU items	Default setting	Desired setting
Exposure Comp.	±0.0	±0.0
Reset EV Comp.	Reset	Reset
ISO	ISO AUTO	ISO AUTO
ISO AUTO Min. SS	Standard	Standard
Metering Mode	Multi	Multi
Face Prty in Mlti Mtr	On	<b>Off</b>



### Exposure2

10/14

MENU items	Default setting	Desired setting
Spot Metering Point	Center	Center
Exposure step	0.3EV	0.3EV
AEL w/ shutter	Auto	<b>Off</b>
Exposure Std. Adjust		<i>not applicable</i>



### Flash

11/14

MENU items	Default setting	Desired setting
Flash Mode	Fill flash	Fill Flash
Flash Comp.	±0.0	±0.0
Exp.comp.set	Ambient & flash	<b>Ambient only</b>
Wireless Flash	Off	Off
Red Eye Reduction	Off	Off
External Flash Set.		<i>Not applicable</i>



### Color/WB/Img. Processing

12/14

MENU items	Default setting	Desired setting
White Balance	Auto	<b>Daylight</b>
Priority Set in AWB	Standard	Standard
DRO/Auto HDR	D-Range Opt.	D-Range Opt.
Creative Style	Standard	Standard
Picture Effect	Off	Off
Picture Profile	Off	Off



## Focus Assist

13/14

MENU items	Default setting	Desired setting
Focus Magnifier		<i>Not applicable</i>
Focus Magnif. Time	No Limit	No Limit
Initial Focus Mag.	x1.0	x1.0
AF in Focus Mag.	On	On
MF Assist	On	On
Peaking Setting (Peaking Display)	Off	Off
Peaking Setting (Peaking Level)	Mid	Mid
Peaking Setting (Peaking Color)	White	White



## Shooting Assist

14/14

MENU items	Default setting	Desired setting
Anti-flicker Shoot.	Off	Off
Face Registration		<i>not applicable</i>
<b>Regist. Faces Priority</b>	On	<b>Off</b>



## Movie1

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MENU items	Default setting	Desired setting
Exposure Mode	—	—
Exposure Mode	—	—
File Format	XAVC S HD	XAVC S HD
Record Setting	60p 50M	60p 50M
S&Q Settings		<i>not applicable</i>
Proxy Recording	Off	Off



## Movie2

2/9

MENU items	Default setting	Desired setting
AF drive speed	Normal	<i>not applicable</i>
AF Track Sens	Standard	<i>not applicable</i>
Auto Slow Shut.	On	On
Audio Recording	On	On
Audio Rec Level	—	—
Audio Level Display	On	On



## Movie3

3/9

MENU items	Default setting	Desired setting
Audio Out Timing	Live	Live
Wind Noise Reduct.	Off	Off
Marker Display	Off	Off
Marker Settings (Center)		<i>not applicable</i>
Video Light Mode	Power Link	Power Link
Movie w/ shutter	Off	Off



## Shutter/SteadyShot

4/9

MENU items	Default setting	Desired setting
Silent Shooting	Off	Off
e-Front Curtain Shut.	On	On
Release w/o Lens	Enable	Enable
Release w/o Card	Enable	<b>Disable</b>
SteadyShot	On	<b>Off</b>
SteadyShot Settings		<i>not applicable</i>



## Zoom


5/9

MENU items	Default setting	Desired setting
Zoom	—	—
Zoom Setting	Optical zoom only	Optical zoom only
Zoom Ring Rotate	—	—



### Display/Auto Review1

6/9

MENU items	Default setting	Desired setting
DISP Button		<i>not applicable</i>
<b>FINDER/MONITOR</b>	Auto	<b>Monitor(Manual)</b>
 Finder Frame Rate	Standard	Standard
<b>Zebra Setting (Zebra Display)</b>	Off	<b>On</b>
<b>Zebra Setting (Zebra Level)</b>	70	<b>100+</b>
Grid Line	Off	Off
Exposure Set. Guide	Off	Off



### Display/Auto Review2








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MENU items	Default setting	Desired setting
Live View Display	Setting Effect ON	Setting Effect ON
Cont. Shoot. Length	Not Displayed	Not Displayed
Auto Review	Off	Off



### Custom Operation1

8/9

MENU items	Default setting	Desired setting
 Custom Key (Control Wheel)		<i>not applicable</i>
 Custom Key (Control Wheel)		<i>not applicable</i>
 Custom Key (Custom Button 1)		<i>not applicable</i>
Function Menu Set.		<i>not applicable</i>
Dial Setup	 Av  Tv	 Av  Tv
Av/Tv Rotate	Normal	Normal



### Custom Operation2

9/9

MENU items	Default setting	Desired setting
Dial Ev Comp	Off	Off
<b>MOVIE Button</b>	Always	Always
Lock Operation Parts	Off	Off
Audio signals	On	On
Function Ring(Lens)	—	—





### Network1


1/3

MENU items	Default setting	Desired setting
Snd to Smrtphn Func		<i>not applicable</i>
Send to Computer		<i>not applicable</i>
FTP Transfer Func.		<i>not applicable</i>
View on TV		<i>not applicable</i>
Ctrl w/ Smartphone		<i>not applicable</i>
<b>Airplane Mode</b>	Off	<b>On</b>



### Network2

2/3

MENU items	Default setting	Desired setting
Wi-Fi Settings		<i>not applicable</i>
Bluetooth Settings		<i>not applicable</i>
 Loc. Info. Link Set.		<i>not applicable</i>
Edit Device Name		<i>not applicable</i>
Imp Root Certificate		<i>not applicable</i>
Reset Network Set.		<i>not applicable</i>



### Network3

3/3

MENU items	Default setting	Desired setting
Bluetooth Rmt Ctrl	Off	<i>not applicable</i>



### Playback1

1/4

MENU items	Default setting	Desired setting
Protect		<i>not applicable</i>
Rotate		<i>not applicable</i>
Delete		<i>not applicable</i>
Rating		<i>not applicable</i>
Rating Set(Cust Key)		<i>not applicable</i>
Specify Printing		<i>not applicable</i>



## Playback2

2/4

MENU items	Default setting	Desired setting
Copy		<i>not applicable</i>
Photo Capture		<i>not applicable</i>
Enlarge Image		<i>not applicable</i>
Enlarge Init. Mag.	Standard. Mag.	Standard. Mag.
Enlarge Initial Pos.	Focused Position	Focused Position
Slide Show		<i>not applicable</i>



## Playback3

3/4

MENU items	Default setting	Desired setting
Select PB Media	Slot 1	Slot 1
View Mode		<i>not applicable</i>
Image Index		<i>not applicable</i>
Display as Group	Off	Off
Display Rotation	Auto	Auto
Image Jump Setting		<i>not applicable</i>



## Playback4

4/4

MENU items	Default setting	Desired setting
Cont. PB for  Intvl.		<i>not applicable</i>
PB Speed for  Intvl	5	5



## Setup

### Setup1

1/7

MENU items	Default setting	Desired setting
<b>Monitor Brightness (Brightness Setup)</b>	Manual	<b>Sunny weather</b>
Viewfinder Bright.	Auto	Auto
Finder Color Temp.	±0	±0
Gamma Disp. Assist	Off	Off
Volume Settings	7	7
Delete confirm.	"Cancel" first	"Cancel" first



## Setup

## Setup2

2/7

MENU items	Default setting	Desired setting
Display Quality	Standard	Standard
<b>Pwr Save Start Time</b>	1 Min	<b>30 Min</b>
<b>Auto Pwr OFF Temp.</b>	Standard	<b>High</b>
NTSC/PAL Selector		<i>not applicable</i>
Cleaning Mode		<i>not applicable</i>
Touch Operation	Off	Off



## Setup

## Setup3

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MENU items	Default setting	Desired setting
Touch Panel/Pad	Touch Panel Only	Touch Panel Only
Touch Pad Settings		<i>not applicable</i>
Demo Mode	Off	Off
TC/UB Settings		<i>not applicable</i>
IR Remote Ctrl	Off	Off
HDMI Settings		<i>not applicable</i>



## Setup

## Setup4

4/7

MENU items	Default setting	Desired setting
 4K Output Sel.	—	—
USB Connection	Auto	Auto
USB LUN Setting	Multi	Multi
USB Power Supply	On	On
PC Remote Settings		<i>not applicable</i>
 Language	English	English



## Setup

## Setup5

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MENU items	Default setting	Desired setting
Date/Time Setup		Set up accordingly
Area Setting		Set up accordingly
Copyright Info		<i>not applicable</i>
Format		<i>not applicable</i>
<b>File Number</b>	Series	<b>Reset</b>
Set File Name	DSC	DSC



## Setup

### Setup6

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MENU items	Default setting	Desired setting
Rec. Media Settings		<i>not applicable</i>
Select REC Folder		<i>not applicable</i>
New Folder		<i>not applicable</i>
Folder Name	Standard Form	Standard Form
Recover Image DB		<i>not applicable</i>
Display Media Info.		<i>not applicable</i>



## Setup

### Setup7

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MENU items	Default setting	Desired setting
Version		<i>not applicable</i>
Setting Reset		<i>not applicable</i>



### My Menu Setting

1/1

MENU items	Default setting	Desired setting
Add Item		<i>not applicable</i>
Sort Item		<i>not applicable</i>
Delete Item		<i>not applicable</i>
Delete Page		<i>not applicable</i>
Delete All		<i>not applicable</i>