



## Sony a7RIV Settings Guide

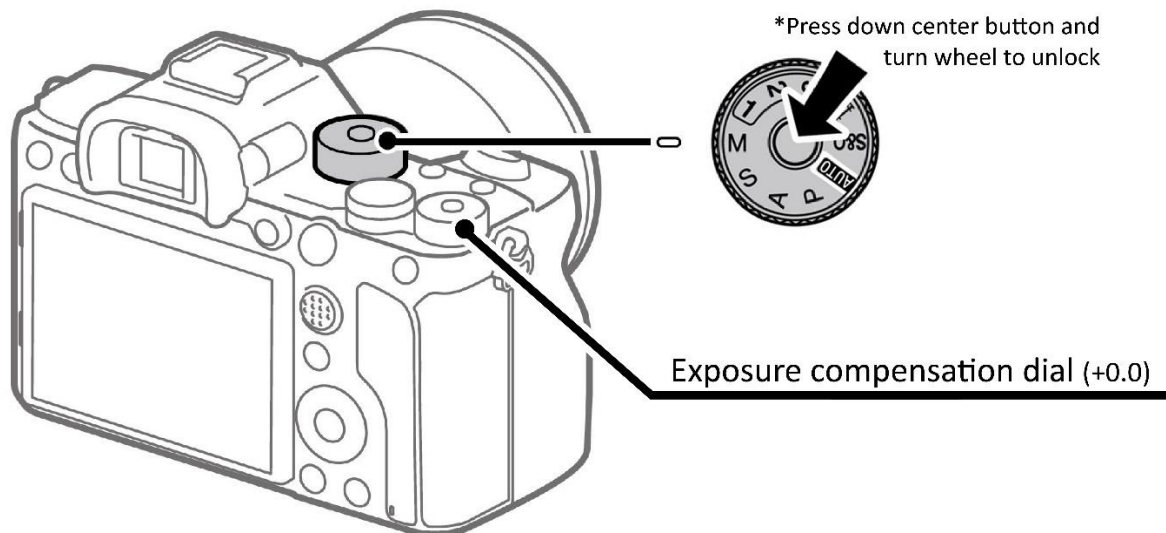
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### Introduction

This document goes through the recommended camera settings to use the Sony a7RIV 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

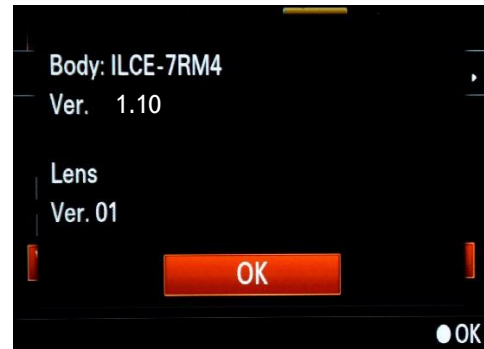


#### 2. Turn on camera

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

### 3. Check firmware

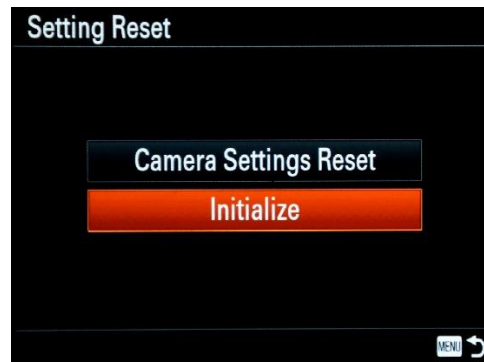
First press the Menu button, then navigate to the Setup menu. On page 6, select **Version** to view which firmware version is installed on the camera.



If it is not firmware version 1.10, go to <https://www.sony.com/electronics/support/e-mount-body-ilce-7-series/ilce-7rm4/downloads/00016499> 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

1/15

MENU items	Default setting	Desired setting
File Format	JPEG	JPEG
RAW File Type	Compressed	Compressed
JPEG Quality	Fine	Fine
JPEG Image Size	L: 60M	L: 60M
Aspect Ratio	3:2	3:2
<b>APS-C/Super 35mm</b>	Auto	<b>Off</b>



### Quality/Image Size2

2/15

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. (Chromatic Aberratio...)	Auto	Auto
Lens Comp. (Distortion Comp.)	Off	Off



### Shoot Mode/Drive1

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MENU items	Default setting	Desired setting
Drive Mode	Single Shooting	Single Shooting
Bracket Settings		<i>not applicable</i>
Interval Shoot Func.	Off	<i>not applicable</i>
Pixel Shift Multi Shoot.	Off	Off
1,  2 Recall		<i>not applicable</i>
1,  2 Memory		<i>not applicable</i>



## Shoot Mode/Drive2

4/15

MENU items	Default setting	Desired setting
Select Media	Slot 1	Slot 1
Reg Cust Shoot Set		<i>not applicable</i>



## AF1

5/15

MENU items	Default setting	Desired setting
<b>Focus Mode</b>	Automatic 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>
Focus Area Limit		<i>not applicable</i>



## AF2

6/15

MENU items	Default setting	Desired setting
Switch V/H AF Area	Off	Off
AF Illuminator	Auto	Auto
Face/Eye AF Set.		<i>not applicable</i>
AF Tracking Sens	3(Standard)	3(Standard)
Aperture Drive in AF	Standard	Standard
AF w/ shutter	On	On



## AF3

7/15

MENU items	Default setting	Desired setting
Pre-AF	—	—
Eye-Start AF	—	—
AF Area Registration	Off	Off
Del. Reg. AF Area		<i>not applicable</i>
Focus Frame Color	White	White
AF Area Auto Clear	Off	Off



## AF4

8/15

MENU items	Default setting	Desired setting
Disp. cont. AF area	On	On
Phase Detect. Area	Off	<i>not applicable</i>
Circ. of Focus Point	Does Not Circulate	Does Not Circulate
AF Micro Adj.		<i>not applicable</i>



## Exposure1


9/15

MENU items	Default setting	Desired setting
Exposure Comp.	±0.0	±0.0
Reset EV Comp.	Reset	Reset
ISO Setting (ISO)	ISO AUTO	ISO AUTO
ISO Setting (ISO Range Limit)	50-102400	50-102400
ISO Setting (ISO AUTO Min. SS)	Standard	Standard
Metering Mode	Multi	Multi
Face Priority in Multi...	On	<b>Off</b>
Spot Metering Point	Center	Center



## Exposure2

10/15

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



## Flash

11/15

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. Processing1

12/15

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



## Color/WB/Img. Processing2

13/15

MENU items	Default setting	Desired setting
Shutter AWB Lock	Off	Off



## Focus Assist

14/15

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

15/15

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

1/11

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

2/11

MENU items	Default setting	Desired setting
AF drive speed	Normal	<i>Normal</i>
AF Track Sens.	Standard	Standard
Auto Slow Shutter	On	On
Initial Focus Mag.	x1.0	x1.0
Audio Recording	On	On
Audio Rec Level	—	—



### Movie3

3/11

MENU items	Default setting	Desired setting
Audio Level Display	On	On
Audio Out Timing	Live	Live
Wind Noise Reduct.	Off	Off
Marker Display	Off	Off
Marker Settings		<i>not applicable</i>
Video Light Mode	Power Link	Power Link



### Movie4

4/11

MENU items	Default setting	Desired setting
Movie w/ shutter	Off	Off



### Shutter/SteadyShot

5/11

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

6/11

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



### Display/Auto Review1

7/11

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
Zebra Setting (Zebra Display)	Off	<b>On</b>
Zebra Setting (Zebra Level)	70	<b>100+</b>
Grid Line	Off	Off
Exposure Set. Guide	Off	Off



### Display/Auto Review2

8/11

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

9/11

MENU items	Default setting	Desired setting
Custom Key		<i>not applicable</i>
Custom Key		<i>not applicable</i>
Custom Key		<i>not applicable</i>
Function Menu Set.		<i>not applicable</i>
My Dial Settings		<i>not applicable</i>
Dial Setup	Av  Tv	Av  Tv



### Custom Operation2

10/11

MENU items	Default setting	Desired setting
Av/Tv Rotate	Normal	Normal
Dial Ev Comp	Off	Off
Function Ring(Lens)	—	—
Func. of Touch Operation	—	—
MOVIE Button	Always	Always
Lock Operation Parts	Off	Off





### Custom Operation3

11/11

MENU items	Default setting	Desired setting
Audio signals	On	On



### Network1


1/3

MENU items	Default setting	Desired setting
Send to Smartphone Function		<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>
PC Remote Function		<i>not applicable</i>



### Network2

2/3

MENU items	Default setting	Desired setting
<b>Airplane Mode</b>	Off	<b>On</b>
Wi-Fi Settings		<i>not applicable</i>
Bluetooth Settings		<i>not applicable</i>
 Location Info. Link Set.		<i>not applicable</i>
Bluetooth Rmt Ctrl	Off	<i>not applicable</i>
Edit Device Name		<i>not applicable</i>



### Network3

3/3

MENU items	Default setting	Desired setting
Imp Root Certificate		<i>not applicable</i>
Security(IPsec)		Off
Reset Network Set.		<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 Initial Mag.	Standard. Mag.	Standard. Mag.
Enlarge Initial Position	Focused Position	Focused Position
Cont. PB for  Interval		<i>not applicable</i>



## Playback3

3/4

MENU items	Default setting	Desired setting
PB Speed for  Interval	5	5
Slide Show		<i>not applicable</i>
Select Playback Media	Slot 1	<i>not applicable</i>
View Mode		<i>not applicable</i>
Image Index		<i>not applicable</i>
Display as Group	Off	Off



## Playback4

4/4

MENU items	Default setting	Desired setting
Display Rotation	Auto	Auto
Image Jump Setting		<i>not applicable</i>



## 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>Power Save Start Time</b>	1 Min	<b>30 Min</b>
<b>Auto Power 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

3/7



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 Select	—	—
USB Connection	Auto	Auto
USB LUN Setting	Multi	Multi
USB Power Supply	On	On
 Language	English	English
Date/Time Setup		Set up accordingly



## Setup

## Setup5

5/7



MENU items	Default setting	Desired setting
Area Setting		Set up accordingly
IPTC Information		<i>not applicable</i>
Copyright Info		<i>not applicable</i>
<b>Write Serial Number</b>	Off	<b>On</b>
Format		<i>not applicable</i>
Rec. Media Settings		<i>not applicable</i>



## Setup

## Setup6

6/7

MENU items	Default setting	Desired setting
 <b>File/Folder Settings (File Number)</b>	Series	Reset
 <b>File Settings</b>		<i>not applicable</i>
<b>Recover Image DB</b>		<i>not applicable</i>
<b>Display Media Info.</b>		<i>not applicable</i>
<b>Version</b>		<i>not applicable</i>



## Setup

## Setup7

7/7

MENU items	Default setting	Desired setting
<b>Save/Load Settings</b>		<i>Feel free to use this feature</i>
<b>Setting Reset</b>		<i>not applicable</i>



## My Menu Setting

1/1

MENU items	Default setting	Desired setting
<b>Add Item</b>		<i>not applicable</i>
<b>Sort Item</b>		<i>not applicable</i>
<b>Delete Item</b>		<i>not applicable</i>
<b>Delete Page</b>		<i>not applicable</i>
<b>Delete All</b>		<i>not applicable</i>
<b>Display From My Menu</b>		Off