NORTH OF YOU

Arsenal User’s Manual

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1. Document Overview

This document contains the specifications and features of Arsenal - The Intelligent Camera Assistant. It also contains setup and maintenance instructions.

2. Document Revision History

Date	Revision	Revision Changes
2018/03/27	0.1	Initial creation of the document.
2018/04/15	0.2	Added more regulatory information.
2018/04/26	0.3	Added more regulatory information. Added instructions to Section 14 Regulatory Information Model - Madison explaining how to open regulatory screen in the App.

3. Arsenal Overview

Arsenal is a intelligent camera assistant. It connects to a DSLR or mirrorless camera over USB and allows for remote control of the camera from a smartphone via WIFI. Arsenal provides tools to assist in photo stacking, timelapses, and producing long exposures. Lastly, it uses machine learning to suggest settings to the user based on the current subject being photographed and data from the camera and sensors.

4. Arsenal Specifications

a. Input Power

Charger	
Input Power	**Rating**
AC Power	100-240VAC 50/60Hz Max 0.3A
Arsenal	
Input Power	**Rating**
USB Charger Connection	5VDC Max 1.0A

b. Operating Environment

Factor	Metric	US
Temperature	0°C to 35°C	32°F to 95°C

Humidity	10% to 90%	10% to 90%

5. What's included with Arsenal?

a. Arsenal

b. Coiled USB Cable

c. Charger and Cable

i. Note: Not included in non-US models.

d. Phone App

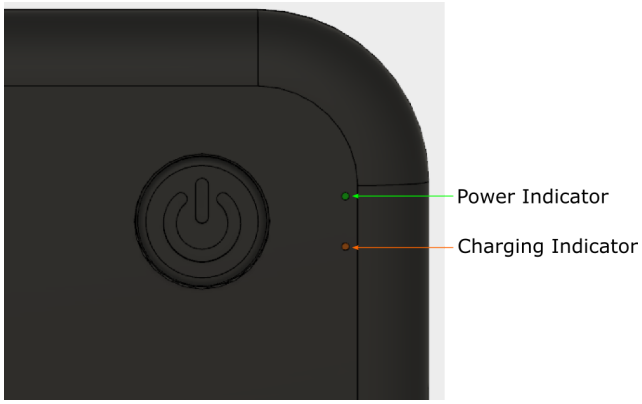
i. Downloaded from the Google Play Store or Apple App Store.

6. Quick Tour of Arsenal

a. Power Button

i. Button to Power On and Off Arsenal.
ii. If Arsenal is Off, a single momentary short press will power On Arsenal.
iii. If Arsenal is On, a single momentary short press will power Off Arsenal.

b. Status Indicators



Power Indicator	
Off	Arsenal Powered Off
On	Arsenal Powered On

Charging Indicator	
Off	Arsenal not charging
On	Arsenal charging
Blinking	Charger problem

c. Charger Connector

i. Used to charge Arsenal with the provided Charger and Charger Cable.

d. Camera Connector

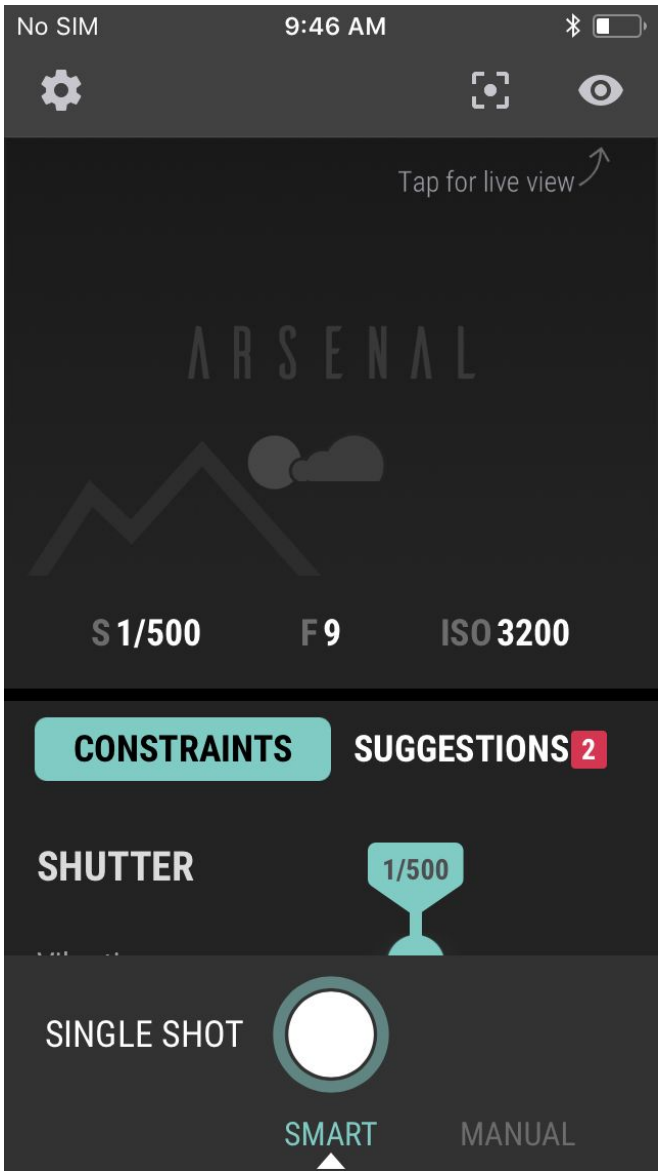
i. Used to connect Arsenal to the Camera with the Coiled USB Cable.

e. Hot Shoe Slide

i. Used to secure Arsenal to the Hot Shoe on a DSLR or mirrorless camera.

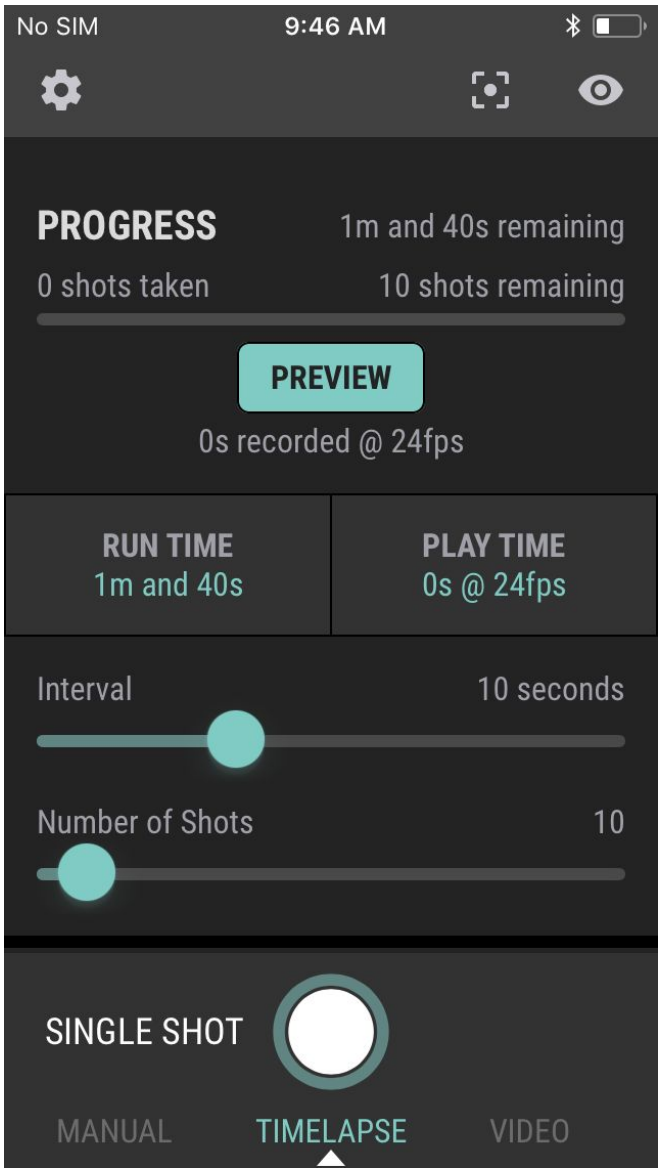
7. Quick Tour of App

a. Smart Mode

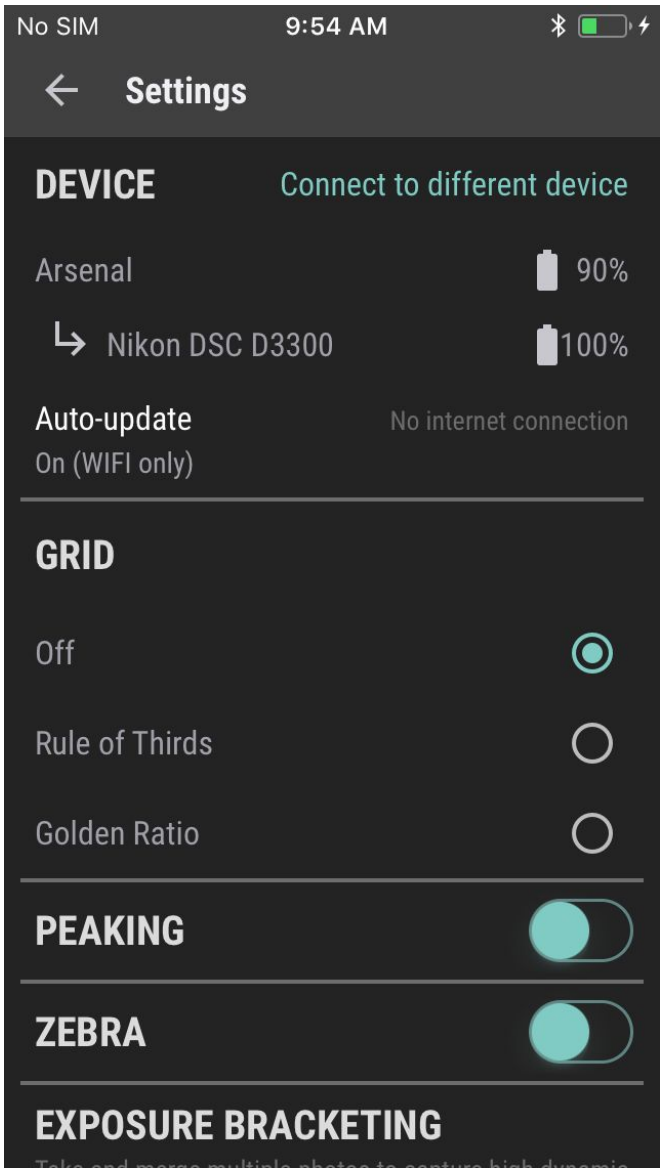


b. Manual Mode

c. Timelapse


No SIM
9:46 AM
PROGRESS
1m and 40s remaining
0 shots taken
10 shots remaining
PREVIEW
0s recorded @ 24fps
RUN TIME
1m and 40s
PLAY TIME
0s @ 24fps
Interval
10 seconds
Number of Shots
10
SINGLE SHOT
MANUAL
TIMELAPSE
VIDEO

d. Settings


No SIM
9:54 AM
Settings
DEVICE
Connect to different device
Arsenal
90%
Nikon DSC D3300
100%
Auto-update
No internet connection
On (WIFI only)
GRID
Off
Rule of Thirds
Golden Ratio
PEAKING
ZEBRA
EXPOSURE BRACKETING

8. Setup Instructions

a. Instructions

i. Slide the Arsenal into the Hot Shoe of the Camera.

ii. Connect the Coiled USB Cable to the Arsenal and USB Connection on the Camera.

iii. Turn the Arsenal On and allow it to boot. This will take about 35 seconds.

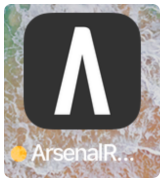
iv. Set the Camera to Manual Mode and turn it On.

v. On the Phone, open Settings and select WiFi.

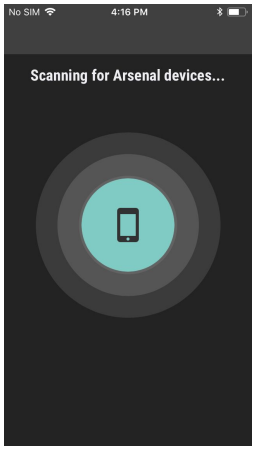
vi. Connect to the WIFI network named "arsenal."

   1. Note: If needed, the password is "test1234"

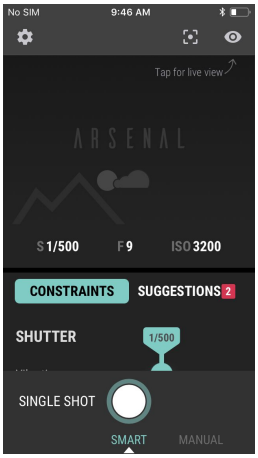
vii. Close Settings, and open the Arsenal App.



viii. The Arsenal App should momentarily state "Scanning for Arsenal devices..." before connecting to Arsenal.



ix. After the Phone has connected to the Arsenal, the screen will update to the main application screen. Arsenal is now ready to use.



9. Charging Instructions

Arsenal can be charged by any standard USB Port.

a. Instructions

i. Connect the provided Charger* to a compatible wall outlet.
ii. Connect the provided Charger Cable to the Charger.
iii. Connect the other end of the Charger Cable to the Charger Connector on Arsenal. If Arsenal was already On, the Amber Charging Status Indicator will illuminate. If Arsenal was Off, it will momentarily turn On and display a brief animation before turning back Off, but the the Amber Charging Status Indicator will remain illuminated.
iv. Allow 2 to 3 hours to fully change. Arsenal is fully charged when the Amber Charging Status Indicator turns Off.
*Charger only provided in US package.

10. Storage Instructions

When not in use, Arsenal should be stored in in a place that ensures it is protected from moisture, excessive force, and excessive temperature.

11. Cleaning Procedures

i. Power Arsenal Off and disconnect all accessories.
ii. Gently wipe the surface of Arsenal using a soft, lint-free cloth moistened with a very small amount of water. Allow Arsenal to dry completely before use.

12. Warnings

i. To prevent electric shock or damage to components, do not attempt to use your Arsenal if it is wet.

13. Troubleshooting Tips

Item #	Problem	Potential Solution
1	Arsenal will not turn Off after a single button press.	1. Press and hold the Power Button until the Green Status Indicator on Arsenal turns Off. This takes approximately 8 seconds.
2	Arsenal will not turn On after a single button press.	1. Press and hold the Power Button until the Green Status Indicator on Arsenal turns On. This takes approximately 1 second. 2. Charge Arsenal for 2 to 3 hours. Press and hold the Power Button until the Green Status Indicator on Arsenal turns On. This takes approximately 1 second.

a. Contacting Support

i. If you're still having issues with Arsenal, please contact customer support at support@witharsenal.com.

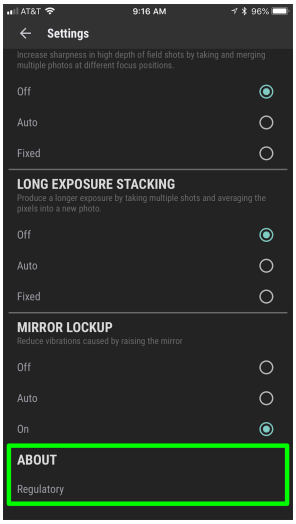
14. Regulatory Information Model - Madison

a. Regulatory Screen in the Arsenal App

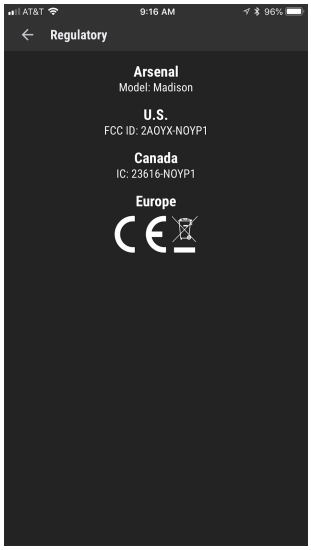
i. To find the regulatory information for Arsenal, please follow the instructions below:

1. Open the Arsenal App and select the Settings icon (gear):

2. Scroll to the bottom and select Regulatory:



3. The regulatory screen, similar to the following, will appear:



b. FCC

i. FCC ID: 2AOYX-NOYP1

ii. This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

iii. Any changes or modifications not expressly approved by North of You, LLC will void the user's authority to operate the equipment.

iv. Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

1. Reorient or relocate the receiving antenna.
2. Increase the separation between the equipment and receiver.
3. Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
4. Consult the dealer or an experienced radio/TV technician for help.

c. IC

i. IC: 23616-NOYP1

ii. This device complies with Industry Canada's licence-exempt RSSs. Operation is subject to the following two conditions:

1. This device may not cause interference; and

2. This device must accept any interference, including interference that may cause undesired operation of the device.

iii. Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes:

1. l'appareil ne doit pas produire de brouillage, et
2. l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

d. Europe

i. Hereby, North of you declares that this equipment is in compliance with the essential requirements and other provisions of Directive 2014/30/EU, Directive 2014/35/EU, and Directive 2014/53/EU.