Thank you for purchasing the SILENCER AIR Follow Focus System

24shots

Whats in the bag:

- Wireless Trigger
- Wireless Motor
- Battery Rail
- Battery Adapter & Rail
- Cap & Rail
- Spare Battery Storage Cell 16340 **2 included**
- Pro Right Angle Gear Drive **(Not Included)** Optional Upgrade

- 19X19 Carrier / 15 to 19mm Adapter
- Spare Battery Storage Cell 2032 - **3 Included**
- Tension Pulley
- Pro - Shoe Mount
- Lens Ring (2)

Additional Items in bag
Standard +XL Belt Pack (6)
Standard Gear Set
3 Zip Ties
2 Metal Knobs
Battery Adaptor Cable
Wrench Set / Hardware Pack
2X16340 Batteries + USB Charger
3X 2032 Batteries

Wireless Trigger Module

ON / OFF

- Battery Release Press to Change Battery
- LED Indicator
- Mode Selection:
  Classic - Arrow up
  Tracking - Arrow Down
- Trigger

Button 1 -
Add Marks Mode - Play
Step Back to last Mark

Button 2-
Add Marks Mode - Play
Step forward to next Mark
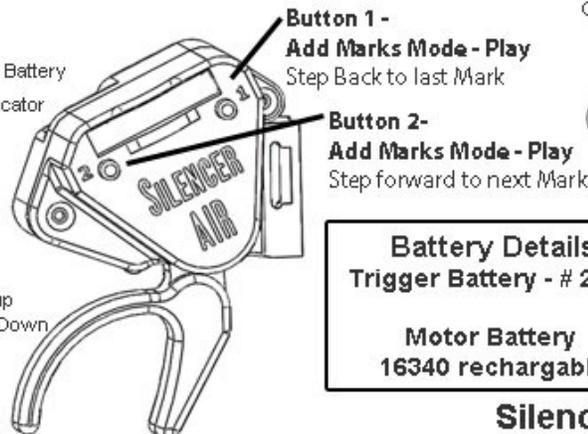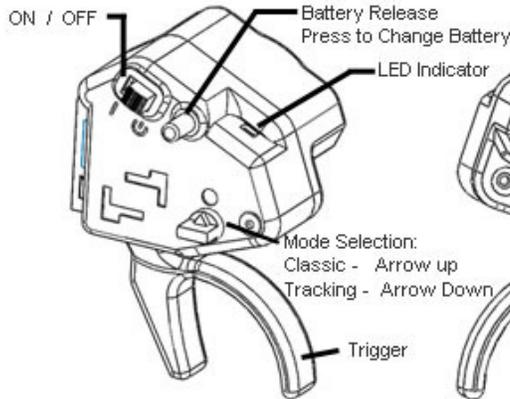
Coin Cell Battery 2032 only

SILENCER AIR

CE

FC

RoHS

Battery Details
Trigger Battery - # 2032

Motor Battery
16340 rechargable

Silencer AIR Patent Pending

Wireless Motor Module

ON / OFF

- Aux. Connection
- Battery Rail
- Use 2 Batteries # 16340

Drone Connection

Connect to R/C Receiver Ground

2 Cell Battery -
+7.4Vdc   +

Connect to R/C Receiver Channel Signal

Black (Ground)

Red (+7.4Vdc)

White (Signal)

Connect to Silencer Air Motor
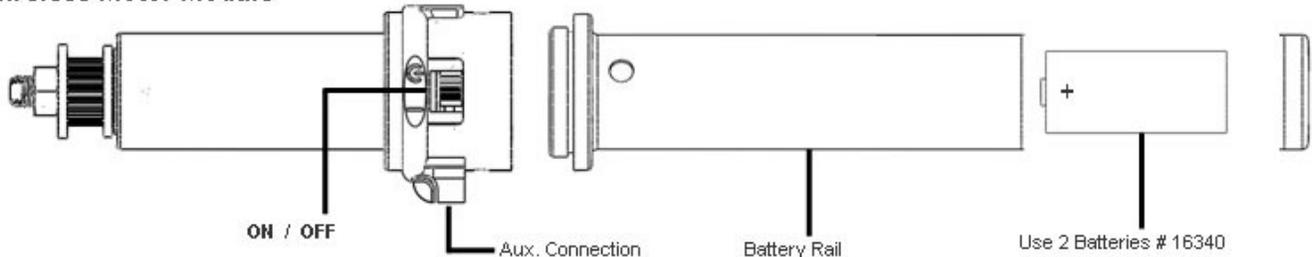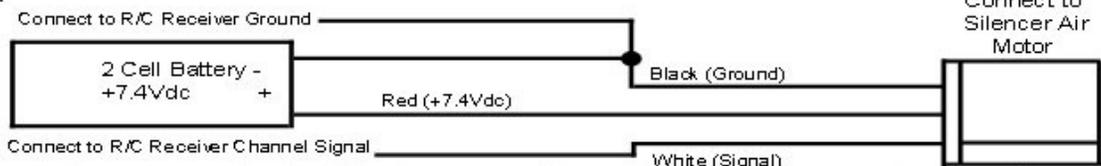
*Battery Power: Most Drone manufacturers recommend using a different battery source with any added equipment to prevent any interference. We recommend using 2Cell battery pack for the Silencer AIR. Power input **8.5 volts DC MAX**. Input wire is ready to be connectorized to your battery. Suggested connection schematic above.We hold NO responsiblility for incorrect wiring causing damage to drone, Silencer AIR or any other onboard equipment.
Only Authorized Skilled Technicians Can Install System

Getting Started with the Silencer Air Lens Control System

Download the 24shots App from Play store or Apple store.

-Open the App, then turn on the trigger and Motor module. Note: **Each time you power up Trigger **DO NOT** move trigger for 5 seconds and LED stops blinking. Once the trigger turns on it performs a calibration.

-Your Silencer Air device will appear in the discovered devices area. If not press refresh.   Press the device to connect.

-Press Choose Lens – Either select lens from list or create new.

-If Select New – Next use the trigger to rotate the lens to the farthest counter clockwise position. Press done in the App. We recommend leave small gap to minimize any stress on the lens.

-Next use the trigger to rotate the lens to the farthest clockwise position. Press done in the App. Small gap recommended

-Next use the trigger to rotate the lens to a calibration mark. Use a lens mark of your preference. Enter the name of the lens mark. -Press done in the App. This mark is used for future re-calibration of this lens. Makes lens changes quick.

-Now select the Mode you would like to use. Then press Launch.

 Classic mode.   The Silencer Air provides full adjustment of the motor speed, offers Turbo function for stiff lenses, and allows users to adjust the deadband making the system as reactive as you require. The combination of these settings can be crafted and saved and re-opened again for another shoot or another lens. This mode is a great for run and gun filming. Trigger function; The more you pull or push the trigger the faster the lens motor rotates. The motor will stop at the lens maximum travel limits.

App function; Press **Curve, Turbo, Deadband** or **Direction** and it will allow you to adjust each. Once you have a profile created you can save it to be re-used again.

When you have profile set – Press Sync button in the app to load profile into the Silencer Air System.

At this stage the App can be disconnected. The system will function until the power is shut off on the Motor Module.

Add Marks mode. The Silencer Air System can save up to 20 set focus/zoom points. You can use the Transition Editor in the app to quickly add your artistic touch for the project.   The editor modifies motor speed & ramp up/down slope profiles. Once the marks and transitions are set, Press play button on the trigger to step through from mark to mark.

App function; Press the + at the top of the page. This will add a mark to the screen. Use the trigger to adjust exactly to position you want to save. Click done in App. Continue to add marks.

At any time you want to adjust a mark press the box #. Then using trigger rotate lens to new position and Click done in App. This will update the mark location.

At the bottom of the page is the Transition Editor. This allows you to change the speed and transition from each mark you've saved. Scroll left and right to the transition you want to edit. Then press and drag curve to the profile you'd prefer. Notice the estimated transition time adjusts with each modification to the curve. Once you have your transition set you can test by pressing Test Transition. This will automatically go to the starting point. From here you can use the Trigger button 2 to go to next mark and then to go back to start point and press button 1. Now you have all points entered. Press PLAY in top menu. This loads all of the marks into the Silencer Air System and advances the motor module to the starting position. Then it's simply press button 2 to advance to the next point or press 1 to go back to previous point. Fine adjustments: When the system is at a point the user can quickly adjust the trigger to move the lens slightly in both directions to quickly resolve blocking errors on the fly. At this time the App can be disconnected. The system can continue to recall the saved points until the power is turned off on the Motor Module. You can Save you Marks File.

 Tracking mode. This directly links the trigger to the position of the lens. As you pull or push the trigger the motor simultaneously moves the lens. You can adjust the limits on the lens to adjust to only the area you need to use on the lens. Within one finger movement you can rotate the lens from one end to the other and precisely hit your focus marks.

App function; Select reverse direction if you want to reverse the motor movement.

Move trigger back and forth to adjust focus/zoom points.

At this time the App can be closed. The system will continue to run until the power is turned off on the Motor Module.

Drone mode. Once enabled you'll have the ability to use any lens and have set endpoints. This allows direct connection of the Silencer AIR Motor to your remote receiver.

Drone radio powered up + designated 2 cell running to the Silencer Air System + Wired to instructions.

App function; Choose or create new lens using Silencer Air Trigger. Go to Drone Mode. Select curve or turbo to adjust settings. Press Sync. When your setup is complete – turn OFF trigger. The system should be linked to channel it's connected to. You may need to adjust trim and reverse channel on the radio controller.

At this time close the App. The system can continue to recall setup until the power is turned off on the Motor Module.

Standard Belt Drive
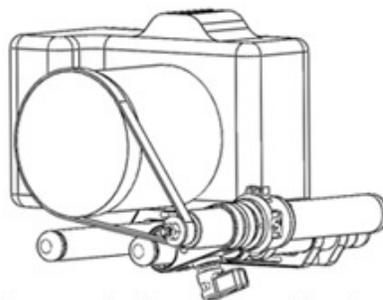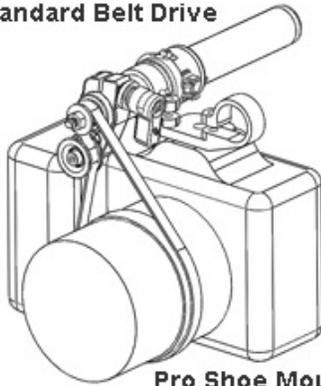
Motor mounted to existing rail system
- Use rail carrier to mount motor

Pro Shoe Mount

Supports Legacy Shoe Mount
& 1/4-20 Threaded Mounts

Pro Shoe Mount Setup

1. Install lens ring - Optional - If lens has ruberized lens ring not optional.
   - If lens is larger then rings you can use a rubber wrist band around lens (not included)
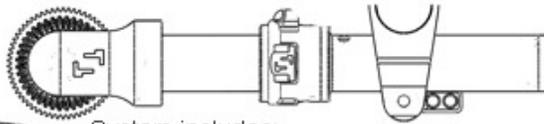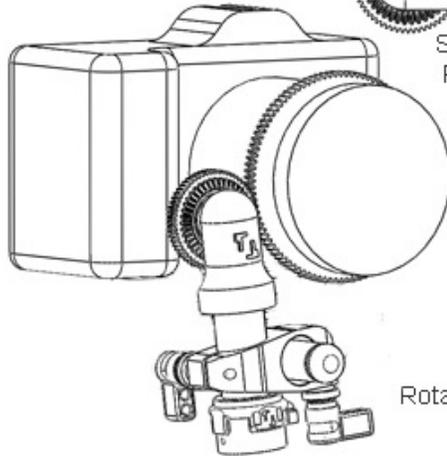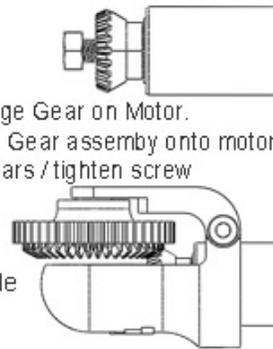2. Install Pro Shoe mount / Install motor to shoe mount / add tensioner.

Pro Gear Drive

Upgrade Available!

System includes:
Power Gear Head & Custom Mounts
Adapts to 15&19mm rails

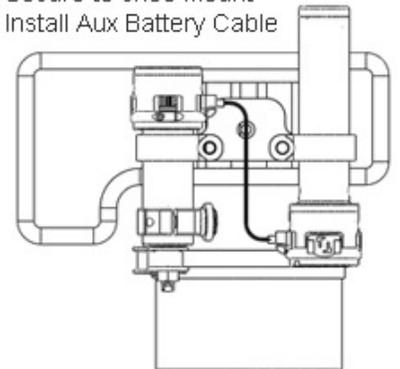1. Change Gear on Motor.
2. Slide Gear assemby onto motor
   mate gears / tighten screw

Rotates to any angle
Fits any rig

Battery Adapter

1. Remove battery tube from motor
2. Attach to Battery Adapter
3. Secure to shoe mount
4. Install Aux Battery Cable

Use to help balance camera & shorten motor rail

Mounted to existing rail system

Standard Gear Drive

1. Remove belt drive pullys from motor and tensioner
2. Install motor gear and tensioner gear as shown below
3. Install lens gear   (Not Included)
4. Align gear and tighten screws
5. Activate motor to test assembly
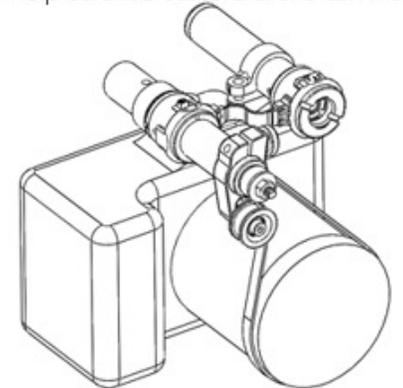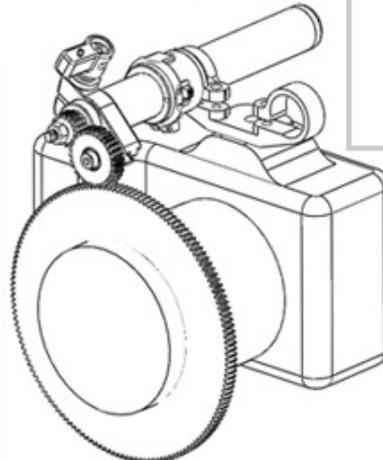   Gears-Standard 0.8 pitch 32 mod
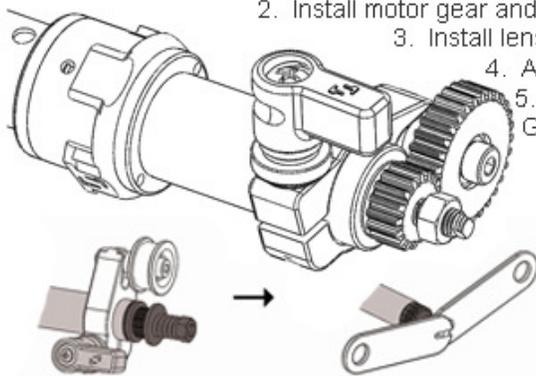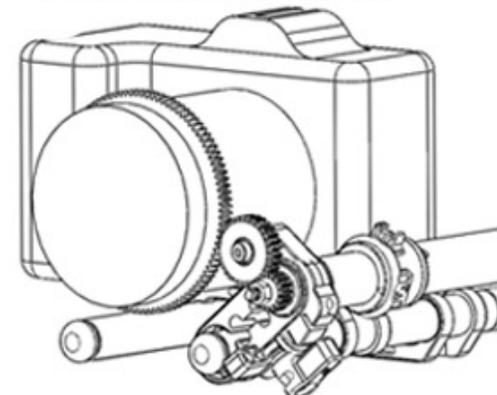
Remove Tensioner.

Put one wrench on shaft
and other on nut.
Loosen the nut.
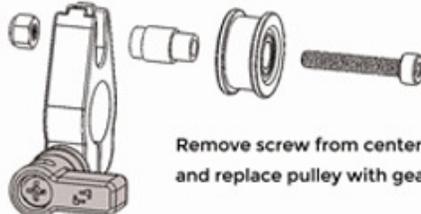
Remove screw from center of pulley
and replace pulley with gear.

General Use of the App.

Switching Modes – Press the device name in the left hand menu – This will take you back to setup page.

Adding more than one device – Press the + in the left hand menu. Press the new device. Follow steps above. Simply use the left hand menu to switch from device to device. Three devices can be loaded and running in the App simultaneously.

Renaming System – In the Mode selection page press the Gear icon. Change text field with new name – Only One device pair can be powered on.

Re-Calibrate lens -   In the Mode selection page press the Gear icon. Using the trigger rotate lens to calibration mark. Press done in app.

Go to Calibration Point - In the Mode selection page press the Gear icon. Press Go to Calibration point. Do this before shutdown to save a step when starting up. System is already at the desired calibration point.

Pairing New Motor or Trigger - On the home page press the Gear icon. Only have one motor and trigger turned on. Go to rename device. Add new name and press save. If one device is gets damaged and you need to replace it you can re-pair new motor or trigger module.
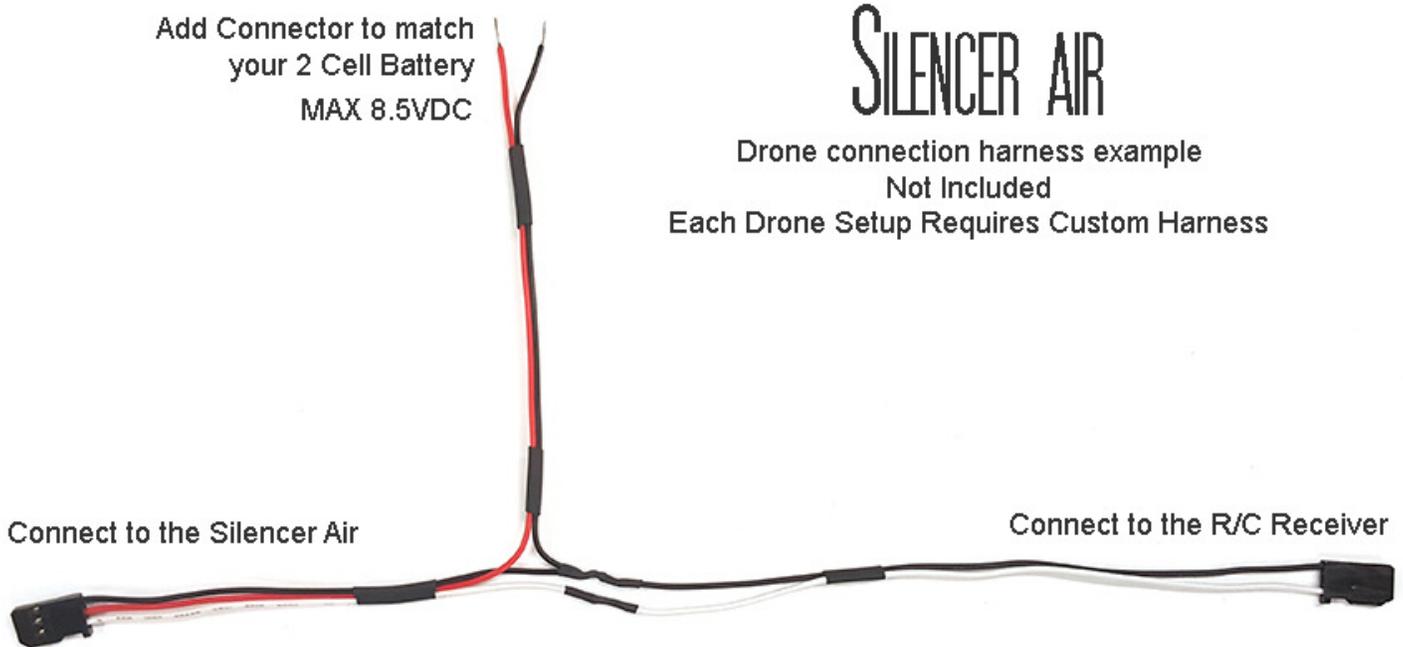
Sharing saved Lenses – Go to select lens file browser. Highlight file and select share. Select

Note – Make sure who ever you are sharing the file with has the same configuration. If not the files will not be compatible and may cause stress to lens.

Trigger Calibration Process:

This re-calibration process will allow the system to re-set the function monitoring the full motion of the trigger. Always when turning on the Silencer Air Trigger you must **NOT** move the trigger for first 5 seconds. It is scanning to ensure the center location of the trigger. If it was moved the system may be out of calibration and you will need to perform the below simple steps. **First** try – turning off the power to trigger and then turning back on without moving the trigger. This will re-center in most cases. If battery is low you will want to change batteries. If this does not work steps for hard calibration.

-Ensure all Silencer Air Motors are turned off

- Turn Trigger Module ON Push the Trigger all the way away from handle – Then press button #2. -Wait for fast flashing LED Signal.

-Quickly Pull the trigger all the way towards the handle – Wait for fast flashing LED Signal

-Quickly Let Trigger return back to center position - Wait for 2 flashes of the LED – Turn Trigger Module off - Then back on. Ready to go!

Add Connector to match
your 2 Cell Battery
MAX 8.5VDC

SILENCER AIR

Drone connection harness example
Not Included
Each Drone Setup Requires Custom Harness

Connect to the Silencer Air

Connect to the R/C Receiver

USER - USA

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

To satisfy FCC RF Exposure requirements for mobile and base station transmission devices, a separation distance of 20 cm or more should be maintained between the antenna of this device and persons during operation. To ensure compliance, operation at closer than this distance is not recommended. The antenna(s) used for this transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

USER - Canada

Notice: Under Industry Canada regulations, this radio transmitter may only operate using an antenna of a type and maximum (or lesser) gain approved for the transmitter by Industry Canada. To reduce potential radio interference to other users, the antenna type and its gain should be so chosen that the equivalent isotropically radiated power (e.i.r.p.) is not more than that necessary for successful communication.

Avis: Sous la réglementation d'Industrie Canada, ce transmetteur radio ne peut fonctionner qu'en utilisant seulement une antenne d'un type et d'un maximum (ou moins) de gain approuvé pour l'émetteur par Industrie Canada. Pour réduire des potentielles interférences radio pour les autres utilisateurs, le type d'antenne et son gain doivent être choisis de sorte que la puissance isotrope rayonnée équivalente (PIRE) ne dépasse pas ce qui est nécessaire pour une communication réussie.

Notice: To satisfy IC RF Exposure requirements for mobile and base station transmission devices, a separation distance of 20 cm or more should be maintained between the antenna of this device and persons during operation. To ensure compliance, operation at closer than this distance is not recommended. The antenna(s) used for this transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

Avis: Pour répondre à la IC d'exposition pour les besoins de base et mobiles dispositifs de transmission de la station, sur une distance de séparation de 20 cm ou plus doit être maintenue entre l'antenne de cet appareil et les personnes en cours de fonctionnement. Pour assurer le respect, l'exploitation de plus près à cette distance n'est pas recommandée. L'antenne (s) utilisé pour cet émetteur ne doit pas être co-localisés ou fonctionner conjointement avec une autre antenne ou transmetteur

USER - Europe (Conformité Européenne,)

The A2500R24A and A2500R24C modules have been certified for use in European countries. The following tests have been performed and the module found to be compliant to the requirements:

¬ Test standard ETSI EN 300 328 V1.7.1 (2006-10) ⌉ Maximum Isotropic Radiated Power (Normal and Extreme Conditions) ⌉ Maximum e.i.r.p. Spectral Density ⌉ Frequency Range (Normal and Extreme Conditions) ⌉ Transmitter Spurious Emissions ⌉ Receiver Spurious Emissions ¬ Electro-Static Discharge and RF Immunity (ETSI EN 301 489-17) ¬ RF Exposure (ETSI EN 62311:2008) ¬ Safety (IEC 60950-1:2005 and EN 60950-1:2006)

24shots P/N :
Model / FCC ID: X7J-A10030501
Canada : IC 8975A - A10030501

• FCC 15.247, IC RSS-210 and IC RSSGen certified.

• Compliant with ETSI EN 300 328