Astrocam®

IMPORTANT: Please record date found on package and keep for future reference.

READ ALL INSTRUCTIONS. Make sure you have all parts and supplies.

090001-5325
Self-stick decal

073217
Camera/
memory card

072840
Nose cone

031393
Body tube

073211/212
Engine mount
fin can unit
(1 fin slot)

073209/210
Shock cord mount/anchor

073113
String

067112
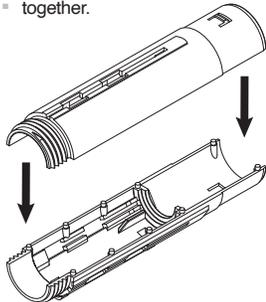Rubber Bands
X6

038364
Shock cord

(2 fin slots)

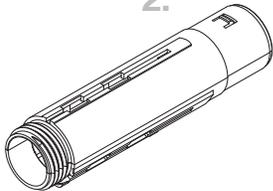**072697**
Engine retainer cap

072700/926
Fins

035806
Parachute

ASSEMBLE ENGINE MOUNT FIN CAN UNIT
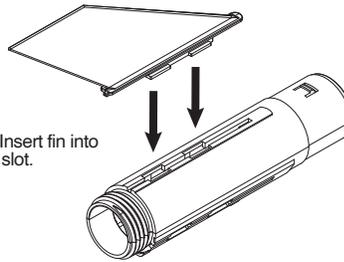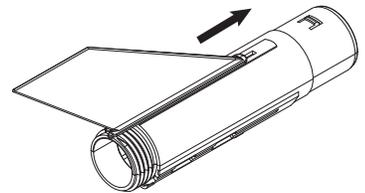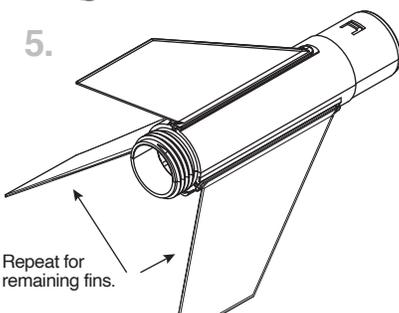
1. Press firmly together.

2.

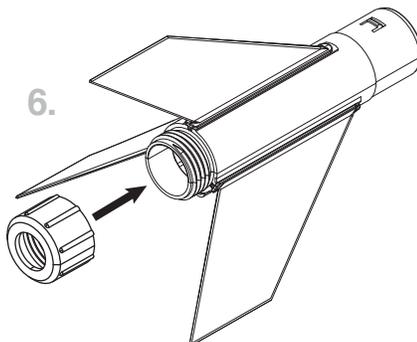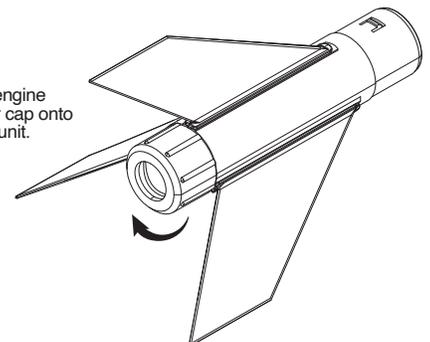3. Insert fin into slot.

4. Slide fin forward until it stops.
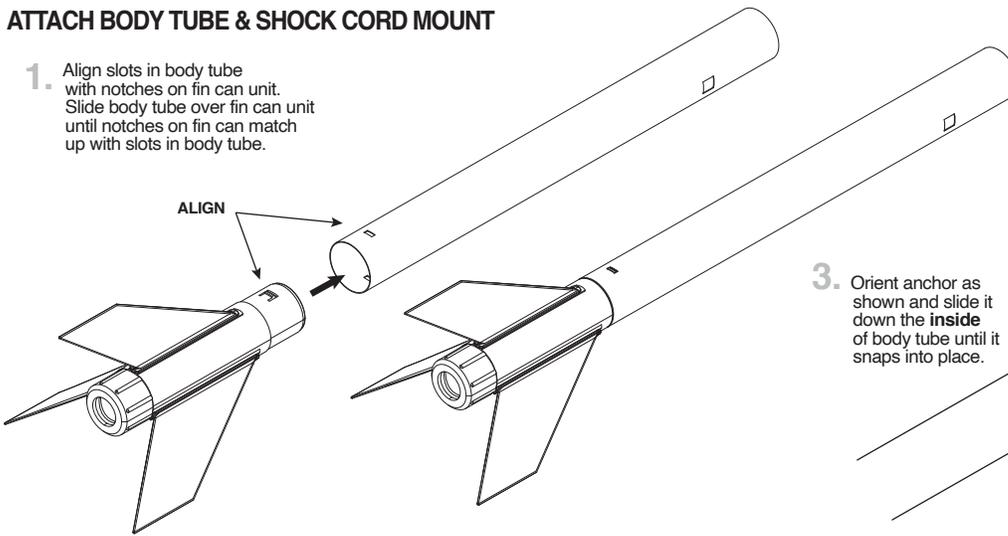
5.

Repeat for remaining fins.

6.

7. Screw engine retainer cap onto fin can unit.

ATTACH BODY TUBE & SHOCK CORD MOUNT

1. Align slots in body tube with notches on fin can unit. Slide body tube over fin can unit until notches on fin can match up with slots in body tube.

ALIGN

2. Insert mount through square hole.
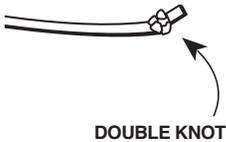
ROUND END TO FRONT

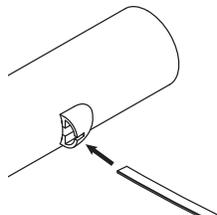**3.** Orient anchor as shown and slide it down the **inside** of body tube until it snaps into place.

NOTE:
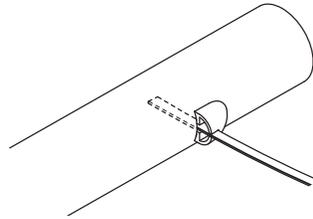You may need a pen or pencil to help push anchor in place.

INSTALL SHOCK CORD

1. Tie double knot in end of shock cord.
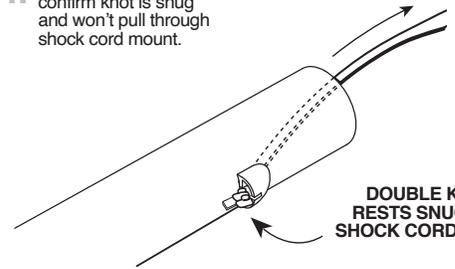
DOUBLE KNOT

2. Insert **unknotted** end of shock cord through opening of shock cord mount.

3.

4. Pull on shock cord to confirm knot is snug and won't pull through shock cord mount.

DOUBLE KNOT RESTS SNUGLY IN SHOCK CORD MOUNT

ATTACH PARACHUTE AND SHOCK CORD

1. Attach single string to top of nose cone and tie double knot.
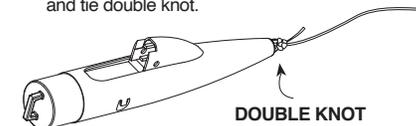
DOUBLE KNOT

2. On opposite end of single string make a small loop and tie double knot again.

3.
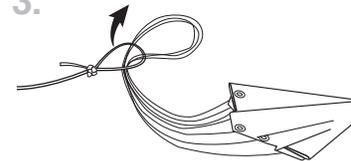
4.
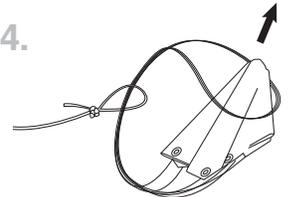
5.

6. Attach shock cord to bottom of nose cone and tie double knot.

Shock cord

DOUBLE KNOT
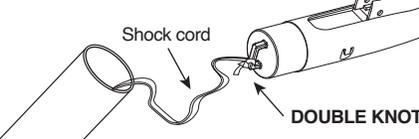
PREPARE FLIGHT RECOVERY

1. Push recovery wadding down towards end of body tube.

3-4 SQUARES ESTES® RECOVERY WADDING
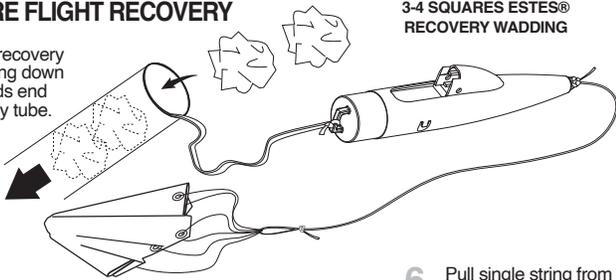
2.
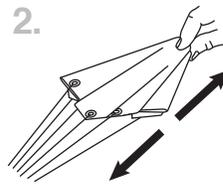
3.
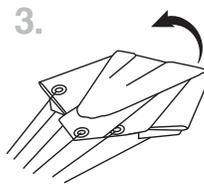
4.
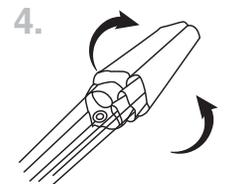
5. Wrap shroud lines loosely and insert parachute into body tube
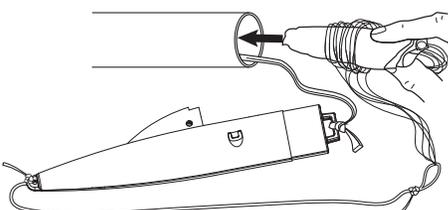
6. Pull single string from top tight down groove on bottom of nose cone and hold with thumb while inserting into body tube

PULL TIGHT DOWN GROOVE
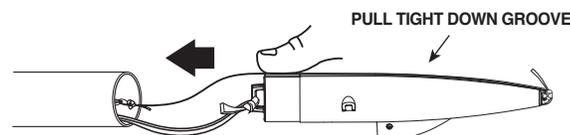
7.
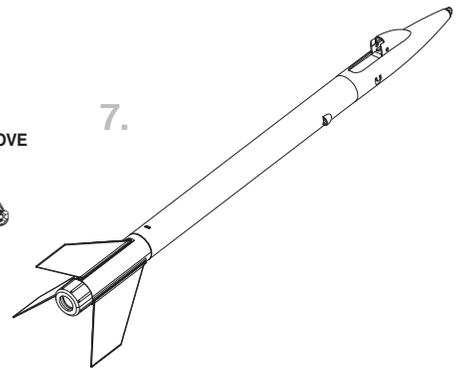
NOTE:
Recovery wadding and parachute must slide easily into body tube. If too tight, redo.

APPLY DECALS

DECAL

You may add clear tape as reinforcement around body tube where it meets fin can unit.

PREPARE ENGINE

1.

2.

3.

Use 1 each.

STARTER

PLUG

4.

TIP MUST TOUCH PROPELLANT!

LAUNCH LUGS

⚠ WARNING: FLAMMABLE

To avoid serious injury, read instructions & NAR Safety Code included with engines.

PREPARE YOUR ENGINE ONLY WHEN YOU ARE OUTSIDE AT THE LAUNCH SITE PREPARING TO LAUNCH

If you do not use your prepared engine, remove the starter before storing your engine.

5.

6.

7.

NOTE:

When tightening engine cap, make sure launch lugs are centered between engine retainer cap ridges.

PREPARE CAMERA

1. Memory card comes installed new. To eject or reinsert, see step 2.

16GB MEMORY CARD
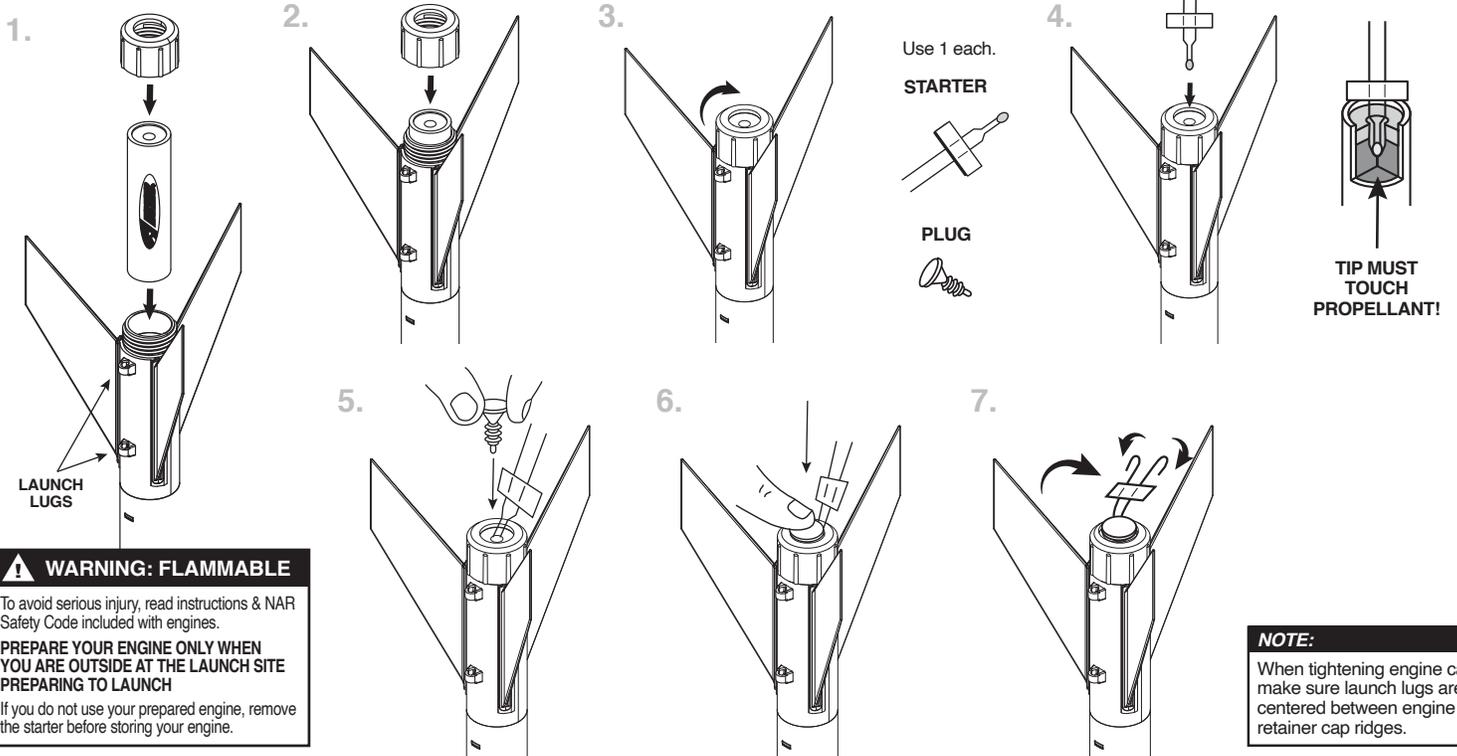
CAMERA LENS

ON/OFF BUTTON

2. Use a paperclip or pen to fully insert or eject memory card. Push until card clicks in place.

3. Remove cap before inserting camera into nose cone

INSERT CAMERA

1. Insert camera into the nose cone with USB end first. Firmly push in until seated in opening.

2. Attach a rubber band to the hook on nose cone and stretch across to opposite hook to secure camera.

HOLE FOR VIEWING RECORDING LIGHT

ON/OFF BUTTON

3. When ready to record, press the ON/OFF button once. A blue light visible through the small hole forward of the camera indicates recording and is on the same side as the ON/OFF button.

Please refer to camera instructions for additional information.

COUNTDOWN AND LAUNCH

NOTE:
Key always out until final countdown!

1.
5"
(12.7 cm)

MASKING TAPE

2.

3.

4.
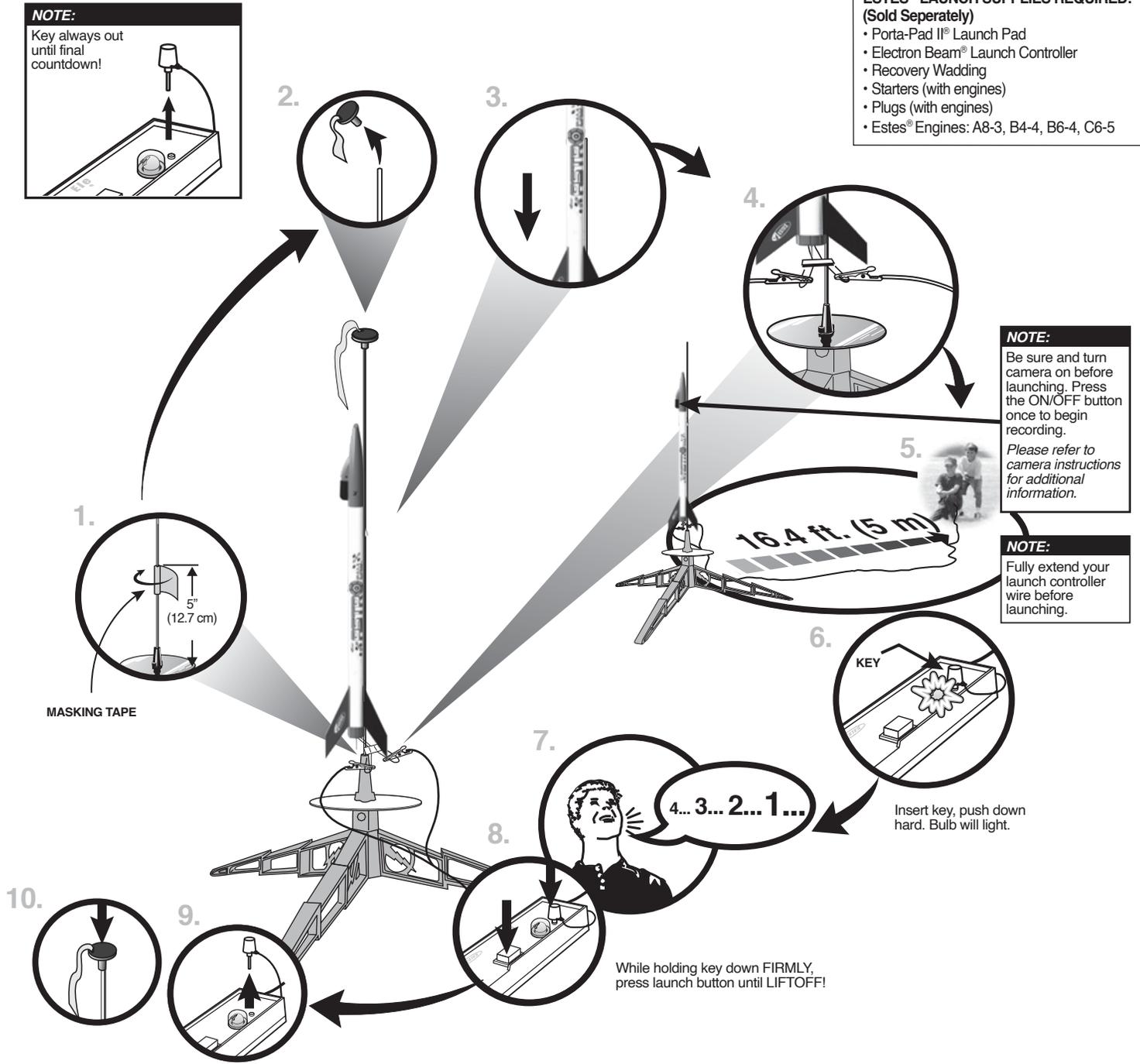
NOTE:
Be sure and turn camera on before launching. Press the ON/OFF button once to begin recording.
Please refer to camera instructions for additional information.

5.
16.4 ft. (5 m)

NOTE:
Fully extend your launch controller wire before launching.

6.
KEY
Insert key, push down hard. Bulb will light.

7.
4... 3... 2...1...

8.
While holding key down FIRMLY, press launch button until LIFTOFF!

10.

9.

NOTE:
Estimated weight: 1.5 oz. (42.6 g)

PRECAUTIONS

NAR SAFETY CODE

NO DRY GRASS OR WEEDS

PRE-LAUNCH CHECK: For safety, never launch a damaged rocket. Check the rocket's body, nose cone and fins. Also, check the engine mount, recovery system and launch lug(s). Repair any damage before launching the rocket.

FLYING YOUR ROCKET: Choose a large field (500 ft. [152 m] square) free of dry weeds and brown grass. The larger the launch area, the better your chance of recovering your rocket. Football fields and playgrounds are great. Launch only with little or no wind and good visibility. Always follow the National Association of Rocketry (NAR) SAFETY CODE (enclosed).

MISFIRES: TAKE THE KEY OUT OF THE CONTROLLER. WAIT ONE MINUTE BEFORE GOING NEAR THE ROCKET. Disconnect the micro-clips and remove the engine. Take the plug and starter out of the engine. A burned starter means the starter tip was not touching engine propellant. Install a new starter; be sure the tip is touching propellant inside the engine. Push the plug in place. Repeat steps under Countdown and Launch.

PN 090004-7308 (11-20)

22
PAP

Removing/Inserting Memory Card

The memory card comes installed in the camera. To eject the memory card, use a paper clip or pen. Gently press down until you feel a click and the memory card will pop out. To reinstall, use paper clip or pen and gently push into slot.
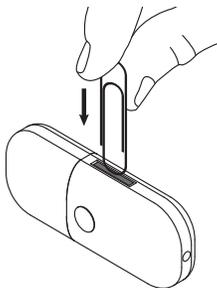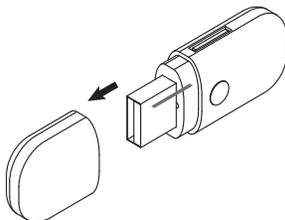
Viewing Recorded Video

Remove cap from the camera body housing. Insert USB connector into computer port.

For optimal viewing performance transfer .AVI file to your local computer's hard disk drive and open in Windows Media Player.

Additional software may be required.

For assistance please call (719) 372-6565 ext. 216 for Customer Service
Mon - Fri, 7:30AM - 3:30PM

EstesRockets.com

Astrocam® Rocket Camera

073217

USB CAP

16GB MEMORY CARD

CAMERA LENS

ON/OFF BUTTON

Video Format:	.AVI
Video Resolution:	1920 x 1080, 16:9
Picture Format:	.JPG
Picture Resolution:	2560 x 1440
Frame Rate:	30 fps
Battery Charge Life:	40 minutes

USB 2.0

The 16GB memory card will provide approximately 90 minutes of recording time.
The Astrocam® can support 1 memory card up to 128GB.

Battery Charging

Charge before first use. Insert USB connector into port in computer or other 5V USB charger port. Blue LED slowly blinks. Charging time is two to three hours.

Video Camera Usage

1. To Turn Camera On: Press ON/OFF button for two seconds. Blue LED light will stay on.
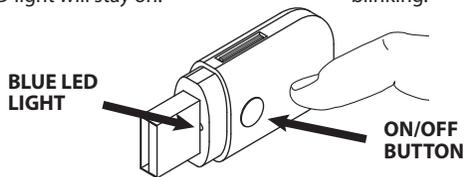
2. To Begin Filming: Press ON/OFF button. Blue LED light begins blinking.

BLUE LED LIGHT

ON/OFF BUTTON

3. To Stop Recording: Press ON/OFF button. Blue LED light stays on.

4. To Turn Camera Off: Press ON/OFF button for two seconds. Blue LED will blink slowly 3 times and power off.

Still Picture Usage

To Turn Camera On: Press ON/OFF button for two seconds. Blue LED light will stay on.

Press ON/OFF button quickly two times. Blue LED will blink indicating a photo has been taken.
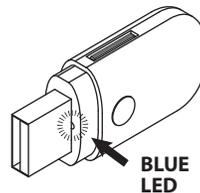
LED Light Indicator

No Memory Card: Light shuts off after blinking three times.

Standby: Light stays on.

Memory Card Full: Light shuts off after blinking six times.

Low Battery: Light will turn off after one half second. After two attempts to turn on camera, light will turn off and stay off.

BLUE LED

Charge Battery: Light blinks slowly. When fully charged, light remains on.

Video Recording: Light blinks.

Set Date and Time

When new from factory or when using a brand new memory card, start by doing the following. Press ON/OFF button for two seconds. Blue LED light will stay on. Press ON/OFF button for two seconds to turn camera off. This procedure will create the files needed on the memory card for the next step. Insert USB connector into USB port on computer. Select the drive letter that corresponds to the removable storage device. Open the time text document (time.txt). Change the date and time numbers to your current date and time. You must use the same format as displayed year/month/day. Click on "File", click "Save", click "File", then click "Exit". Remove camera from USB port. Turn on camera, turn off camera. Your videos should now display the correct date and time.