

Agenda

- Shooting Wildlife Videos
 - Why video?
 - Resolution
 - Frame Rate, bit rate
 - Exposure shutter speed, aperture, iso, histogram, shutter release button
 - Manual v. Autofocus
 - Stability
 - Tripod, Leveler, fluid head
 - Image stabilization
 - Zoom, camera movement
 - Sound microphone

Agenda

- Shooting Wildlife Videos Continued
 - Shooting Scenarios
 - Subject Center Stage
 - Subject Behavior in focal plane
 - Subject Moving To/From camera
 - Subject Erratic Movement, 3D motion
 - Handheld v. Tripod
- Processing Video
 - Post Processing Software

Why Video?

- Hybrid Shooter
 - One camera body for both stills and video
 - Be able to switch easily between the two
 - Sony A1, A9, A7R4 (Mirrorless)
- Some moments cannot be captured in just one frame
- Motion, behavior, change over time best seen in video

Video Resolution

- □ HD, 4K, 8K
- □ High Definition, HD −
 - 1920x1080 pixels, aka Full HD
 - 1 frame is about 2MP
- □ 4k UHD, DCI
 - □ UHD Ultra High Definition, 3840x2160, 16:9 aspect ratio
 - DCI Digital Cinema Initiative, 4096x2160, movie industry standard
 - □ 1 frame is about 8.3 MP
 - Found in a wide range of DSLR and Mirrorless cameras
 - I shoot at 4K resolution mostly
 - Can always downsize to lower resolution, if necessary.

Video Resolution

- □ 8K 7680x4320 pixels (4 times the pixels of 4K)
 - 1 frame is about 33 Megapixels
 - New Mirrorless cameras feature 8K video
 - Canon R5, Sony A1, Nikon Z9 rumored to have 8K video
 - My Samsung S20 Ultra 5G cell phone shoots 8K video
 - Some monitors and TV's becoming available expensive, but prices coming down. Sony 75" HDR 8K LED \$4000
 - 8K videos can be found on YouTube
 - 8K video processing severely slows the performance of my computer system – I am ordering more memory!

Video Frame Rate

- Frames per second (fps), higher frame rate, higher quality
- 24fps for a "cinematic" look more motion blur, the standard film look,
 most realistic, standard for film industry
- 30fps better for TV for a crisper. Cleaner image
- □ 60fps smoother video, more detail, good for busy motion, more data for better editing, 4K@60fps is a Holy Grail, some experts say "most realistic"
 - Canon R5 and Sony A1 have 4K/60
- □ 120fps slow motion, 4x slower than 30fps
- 240fps super slow motion
- \square I shoot at 4K/60fps and 4K/120fps on my Sony A1

Video Bit Rate

- Amount of video data per unit of time
- Megabits per second (Mbps)
- □ Higher bit rate, sharper the video (larger file size)
- □ I select highest bitrate available
- In general, select highest resolution, highest bit rate,
 and 30fps or 60fps in your camera

Video Formats/Codecs

- □ Video Codec
 - Coder-Decoder a program that encodes and decodes a video data stream. Also compresses and decompresses the data to save space.
 - H.264, H.265/HEVC, MPEG-4, DivX, XAVCS (Sony)
 - H.264 is a standard and widely used Codec
 - H.265 is becoming available double the efficiency of H.264

Video Formats/Codecs

- Video Container
 - A bundle of the elements that make up a video file
 - Codec, video data, audio data, text
 - .MP4, .MOV, .AVI, .WMV, .FLV file extensions
 - .MP4 universal standard
 - Also known as video file format

Custom Selection

- Set a Custom selection with your video parameters
 - (button, Mode Dial, etc.)
- My Mode Dial Sony A7R4
 - 1 Birds in Flight Settings
 - 2 Scenics
 - □ 3 Video
 - Film Ikon Video variants
 - S&Q (Slow and Quick) Video Slow-Motion
- Quickly "dial in" to switch to video without looking at the dial
- Danger of the Video Button
 - Uses current settings, which can be wrong



Exposure Setup

- Manual Mode gives me the most flexibility
- Shutter Speed
 - Rule of thumb set shutter speed to 1/2x of frame rate
 - 24 fps = 1/48 (1/50); 30 fps = 1/60 sec; 60 fps = 1/120 sec; 120 fps = 1/250 sec
 - Gives most realistic everyday feel of motion.
 - Shutter is open for $\frac{1}{2}$ of frame duration. Comes from historic movie film cameras.
 - But, have latitude on shutter speed.
 - Can override "rule" for better exposure
 - But too much higher, then get very "choppy" video playback
 - Too much lower, then looks blurry
 - Have gone as high as 1/200 sec at 30fps (rule would be 1/60) with no visual difference to me.

Exposure - continued

- - I use AutoISO as default setting
 - Many videographers say "fix" the ISO, so exposure does not uncontrollably change on you.
 - AutoISO adjusts the ISO to maintain a fixed exposure
 - Start with AutoISO and can always adjust ISO later.
 - Harder to see noise on videos as compared to stills, so have more latitude on ISO and video can tolerate more noise

Exposure - Continued

- Balanced Exposure
 - Live View, inspect LCD and Viewfinder (if Mirrorless)
 - Use Histogram in real time
 - Adjust shutter speed (some latitude), aperture and ISO to get a balanced exposure
 - Some cameras offer Highlight Metering prevents overexposure of white areas (i.e. bald eagle head, white pelicans, gulls) - Sony A1, Sony A9, Sony A7R4, Canon R5(?)

Focus

- Manual v. Autofocus
- Many experts say use manual focus
 - Reduce risk that autofocus loses focus
 - Really depends on quality of autofocus system
 - Very difficult to follow an animal in motion using manual focus known as "follow focus"
- I use autofocus to follow animal movement
 - 3D movement
 - Shoot through the Viewfinder (Mirrorless)
 - Tap and Track on the LCD screen

Holding Focus – Autofocus

- 4K 60fps for fast motion
- Sony A1, 200-600 lens +1.4xTC
- Autofocus
 Tracking, motion
 left/right, to/fro
 from camera,
 high speed,
 acceleration
- Panning
- Window Mount
- Not yet stabilized in Premier Pro
- Pronghorns up to 60mph, fastest land animal in North America



Stability

- Tripod
- Leveler
 - Fast tripod leveling
 - Level panning
- Fluid Head
 - Smooth movement
 - Smooth start and stop
 - Smooth pan and tilt
- Window Mount

Leveler

Free Expedited Shipping* to Breckenridge V Extended Returns thru Feb 01, 2021 V

Home > Photography > Tripods & Support > Tripod Head Accessories > Camera & Tripod Levelers > Really Right Stuff TA-3-LB-HK

Really Right Stuff TA-3 Leveling Base with Platform and Hook

BH #RETA3LBHK • MFR #TA-3-LB-HK *** ** 14 reviews 4 Questions, 8 Answers



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Add to Wish List .









Key Features

- For RRS Versa S.3 Tripods
- · Load Capacity:25 lb

- Hook for Stabilizing Weight
- · 30 Degrees Total Leveling

Show More

The TA-3 Leveling Base with Platform and Hook from Really Right Stuff is a useful foundation for all types of tripod heads and is suitable as a panorama base. Compatible with the Really Right Stuff Versa Series 3 tripods, this version has a platform and a hook to attach weighty objects to stabilize the tripod. Constructed of CNC machined 6061 aircraft-More Details



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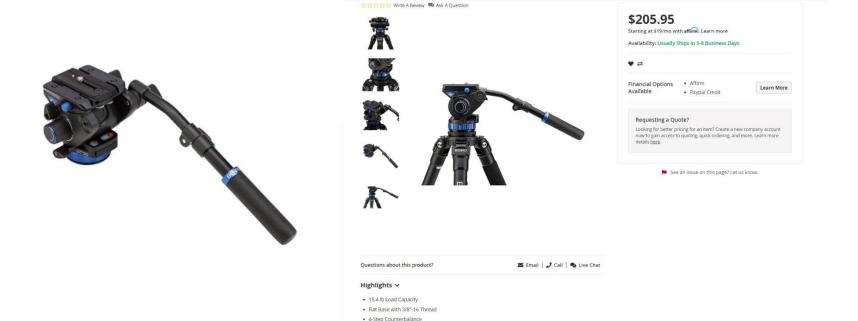
Ouick Release



6 Month Promo Financing Available
On purchases of \$149 or more made with the
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Fluid Head Benro S7



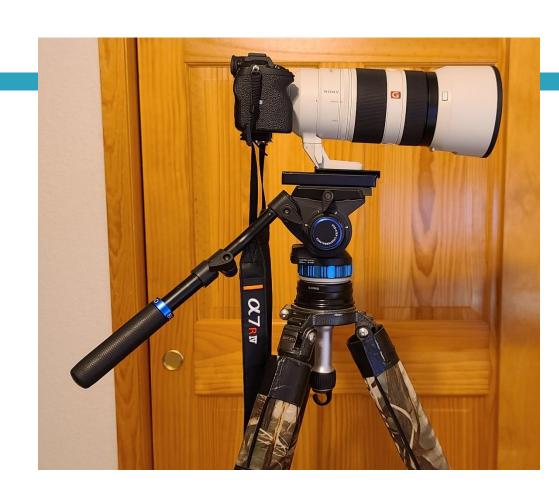
· Continuous Pan Drag

Camera Grip Carts Storage Lighting Sound Expendables Bags & Cases FT Exclusives More O Clearance

Manfrotto also has a full line of affordable fluid heads

My Setup

- □ Sony A7R4
- □ Sony 100-400 f/4.5-5.6 lens
- Benro S7 Fluid Head
- ReallyRightStuff Leveler
- Gitzo Tripod



Window Mount

- □ Sony A1 Rich
- □ Sony 200-600 lens
- Benro S7 Fluid Head
- Kirk Enterprises Window Mount WM-2

- Canon R5 Charlie
- □ Canon 800 f/4 lens
- Manfrotto Fluid Head
- Window Mount







Beware Camera Shake

- Every time touch camera/lens, it will shake the video
- Zoom, changing menus, pressing buttons
 - Consider turning off video, make changes, then restart
- Use Shutter Release button to start/stop video, if an option
- Image Stabilization (IS)
 - Generally recommended that IS be turned off when using a tripod
 - However, check the instructions for your lens for accurate info
 - Some newer lenses smart enough to detect when mounted on tripod and will automatically turn off stabilization. Nice, since easy to forget
 - Image Stabilization ON for handheld video.

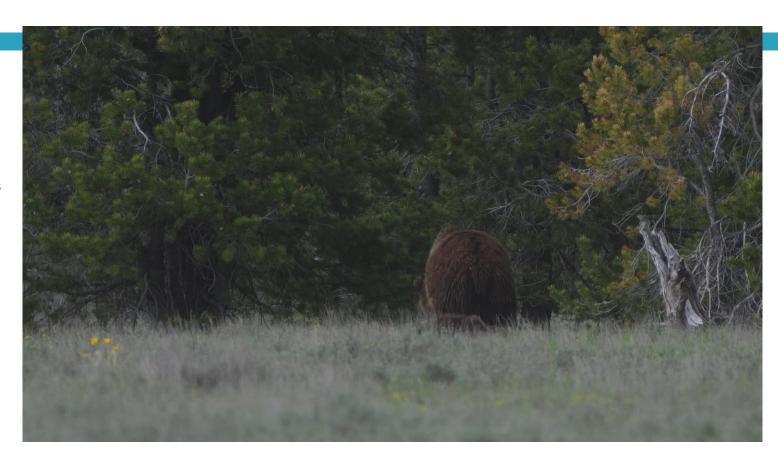
Sound

- Leave "Sound"
 turned on. Can
 always delete/edit
 in postprocessing
- Use a microphone for better sound quality



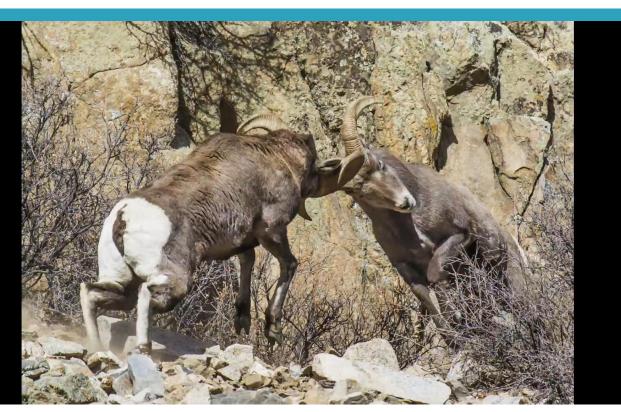
Shooting Scenarios – Subject Center Stage

- Tripod
- No camera movement (no pan, no zoom, no tilt)
- □ Sony A7R4
- Sony 200-600 lens + 2X TC +1.5x Crop+2X Clear Image Zoom (3600mm)
- □ 4K@30fps
- Grand TetonNational Park
- Grizzly 399 with 4 cubs



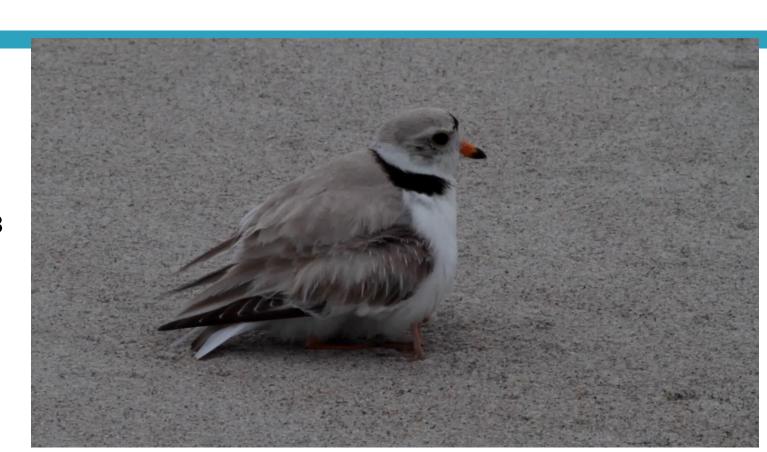
Feigned Retreat – Bighorn Rams

- Tripod
- No CameraMovement
- □ HD@30fps
- □ Canon 5DM2
- □ Canon 500 mm f/4 lens
- Georgetown,CO
- Surprise



Full House – Piping Plovers

- □ Tripod
- No CameraMovement
- □ HD@30fps
- □ Canon 5DM3
- □ Canon 500 mm f/4 lens
- Ipswich, MA
- Surprise



Shooting Scenarios - Panning

- Tripod
- Panning
- □ HD@30fps
- □ Canon 5DM4
- Bugling captured with Rode microphone
- Rocky MountainNat park

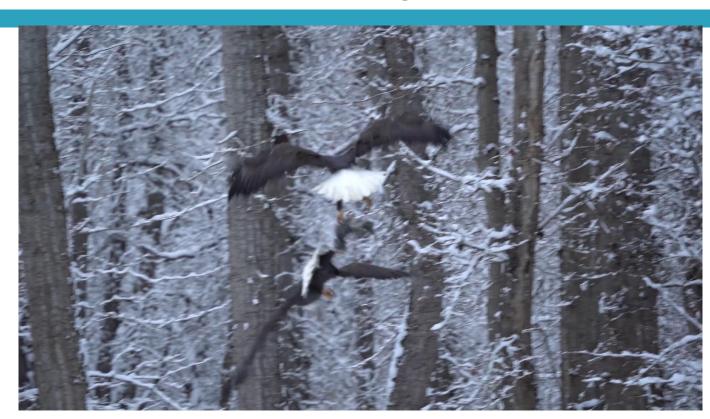


Shooting Scenario – Handheld Slow Motion

- HD@120 fps
- Image Stabilization "ON"
- Autofocus
- Stance
 - Hold camera in close and tight
 - Feet apart and stable, turn smoothly at waist
 - Shoot thru viewfinder (Mirrorless)
- Shaky motion is less visible, more forgiving
- Image Stabilization in Post Processing
- My favorite for shooting video

Fight for the Fish - Panning

- Handheld
- Slow Motion,120fps
- □ HD, 1920x1080
- Sony A9 (one week old)
- Sony 100-400 f/4.5-5.6 lens
- Haines, Alaska
- Autofocus



Hummingbird on Salvia — 3D Motion

- Handheld
- Slow Motion,120fps
- □ HD 1920×1080
- □ Sony A9
- □ Sony 100-400 f/4.5-5.6 lens
- Silverthorne
- Autofocus



Story – Hatchling to Fledgling

- □ 4k @30fps
- □ 3840x2160
- Shooting every few days over three weeks
- Dillon, CO
- Edit in Adobe Premiere Pro
- Sony A7R3, Sony 100-400 lens
- Shutter speed 1/160 sec
- Adding music can enhance the video

Processing Your Video

- Processing Video
 - Post Processing Software
 - Basic Functions needed
 - Trimming, Cut Outs, Ripple Delete, Joining, Stabilization, Transitions, Speed and Duration,
 - Exposure Modification, Export, Cropping, Frame Capture
 - Adobe Premiere Pro \$19.99 per month
 - DaVinci Resolve free for basic functions
 - DaVinci Resolve Studio \$299 \$999 depending on version
 - Image Stabilizer produced better results than Premiere for one test.
 - CyberLink Power Director \$139
 - https://kdenlive.org/en/ Free
 - https://ffmpeg.org/ Free

Processing Your Video - Continued

- Other Software
 - LRTimelapse smooths the exposure for sunrise/sunset in TimeLapse photography
 - ExifTool best for metadata info for images and videos Free

For More Info

- Presentation can viewed/downloaded on my Blog and website – Google "richard seeley photography"
- Arts Alive Gallery, First and Main, Frisco
- Majestic Art Gallery, Main Street, Idaho Springs

Thank You