Cameraflyer References

Sony HDR-CX100/ HDR-CX105/CX110/CX150 for Action Sports

Source: Hypoxic

Settings

- Set to manual focus daily. Looses setting after 12 hrs
- Auto Exposure, auto scene. Be careful not to use the spot focus/spot exposure method!
- Power on by LCD - OFF
- X.V. Color turn - ON
- Turn off face and smile detection
- Preference: Keep steady shot on, change to wide angle lens
- Preference: Turn auto shutoff to never
- Turn on HD to lowest compression mode to fit your requirements
- US Competition flyers, switch to SD mode 4:3

Fitting Side or Top

1. Used a box such as Cookies or TonFlys
2. Use an L-Bracket with a clip or gaffers tape to tape down LCD screen. Screen will fly open and break if you do not tape it down.
3. Use a goldmember , Schumacher Quickshoe , a Manfrotto or a Flat Lock
4. Use a ¼" mounting screw and bolt the camera to the top of the helmet. Add some sort of strap and rubber or cork foot to prevent it from spinning off.

Note: Try to mount the lens against the helmet with rubber and/or some sort of restraint. This will reduce shake.

Lenses

For most of these you'll need an adapter from 37mm to 30mm. The Century lenses come with metal adapters. The Raynox come with plastic adapters that should be replaced with metal ones at the discretion of the skydiver.

Lens	Pro	Con
.2 Royal / Liquid / Waycool	Small profile and very wide angle	Low resolution SD lens, non-zoomable
Opteka Platinum Series 37mm 0.3X HD Ultra Fisheye Lens	Awesome quality, high resolution	Wide lens and heavy, non-zoomable
Century .3x 37mm MK II "Baby Death"	Awesome quality, high resolution	Wide lens and heavy, non-zoomable
Raynox HD-3032PRO	Good HD quality, light weight, zoomable	Longer than traditional single element lenses

Lens	Pro	Con
Century .55x 37mm	Great HD lens, low profile	Only .5x, non-zoomable
Raynox HD-5050PRO	Good HD lens, light weight. Zoomable	long profile multi element lens
Royal / Liquid / Waycool .3/.5	Low Profile lens	SD resolution, non-zoomable

Note: Multi-element lenses allow for zoom through the lens. This is good for grabbing landing footage, scenes from the airplane, and footage while under canopy. I personally set my zoom and focus once and never touch it but your situation may vary.

Archiving

Use the software provided with the camera and connect the camera up via USB to the PC
Manually: Using a card adapter and card reader copy the following files into your own archiving scheme:
• HD footage MTS extension (AVCHD footage)
• SD footage MPG extension (MPEG 2 footage)
• Pictures JPG extension

Hypoxic Hypeye D Pro Instruction Manual

Source: Hypoxic

http://www.gethypoxic.com/manufacturers/get_hypoxic/instructions-web.pdf

GoPro HERO3 Trouble Shooting

Source: Hypoxic

The GoPro HERO3 is an amazing camera but like anything new, there are some issues with the initial release. Here is Hypoxic's list of issues with the GoPro HERO3:

Photo Every Second Mode (.5/1second intervals) - Does not continuously adjust exposure therefore people such as skydivers, paintballers, marksmen, etc. that start PES inside a dark place and then travel into a bright situation get washed out photos. The opposite senario is true. They have "locked" the exposure for use in time lapse, but it does not help people that use this mode in fast passed sports as it was designed to do. An option to set this is highly desirable. This mode is currently unusable for skydiving unless the user starts the camera after exit which is difficult to do.

All the action people are going to be pissed when they notice this, only the time lapse people will be happy. This is not the original clientele.

Critical

The camera allows you to shut it off before finalizing the file. Give it 5 seconds after stopping before holding down the power/mode button.

Can not control camera via a tablet or smart phone - I don't use this feature too much so it does not bother me, but still should work on release

Wifi Remote LED does not blink right at turn on. In fact I'm ok with it being red the whole time. You click the button and you want immediate feedback especially in stressful situations such as base, skydiving, or burst mode at a critical moment. "Did it start? Did it take"

Hero 3 black + new style (black) battery backpack + wifi enabled = camera won't stay off. If I press the power button on the camera or on the wifi remote, the Black shuts down for 3 seconds, then powers back up. I have a support ticket in to GoPro on this. So far in our 5 or 6 emails, its gone back and forth between camera being the cause vs. battery packs bring the cause.

Pretty Damn Annoying

Cannot show 2.7K or 4K on the TV. Wish it would down sample the footage so that you can playback on a standard TV. Perhaps the processor is not fast enough.

Playback tool bar should dim after x seconds. After a short period, the playback toolbar should become hidden so that you can see the footage not ubstructed by the icons. Perhaps have a playback setup option for tool bar off and automatically play next footage without OSD so people can use linear editing devices.

Nice

For those people that do want exposure lock, make it a setting. Return PES back to the normal!

Ring Sight Fundamentals and Mounting Tricks

Source: Hypoxic

Ring Sight Fundamentals

- Ensure you are ready to fly a ring sight. They do add complexity to camera flying mix and can cause serious injury.
- Choose your sight. Cross sight or Concentric. Concentric is more expensive but does provide a superior video or still product.
- Choose your mount. Articulated is recommended since it gets out of your way during landing and fitting of the helmet. In addition, it tends to present less snag points. A common mounting post works well for a select set of helmets. Remember though, a mounting post may not break off incase of line snag!

Get yourself a swivel clamp. This is the necessary accessory to connect the eyesight to the mounting post and provide fine tuning adjustment.

Ring Sight Mounting Tricks

- Read the instructions for the Removable Articulating Ring Sight Bracket.This will guide you through the mechanical mounting process. Note: The second page contains a CAD drawing of the drill hole locations. Use a ruler or calibers to locate the hole's offset.
- Cut and file all aluminum posts as short and smooth as possible to prevent line snag.

We have inexpensive replacement posts. One jump with excess post exposed may be too many!

- Drill into the helmet per the helmet manufacturer's suggestions. Use tape and an awl to mark the drill holes. Drill slowly preventing splintering. Move up in drill bit size.
- Remove the eyesight from the post for cutting. Once done, use some blue Locktite to secure.

Have a friend help you sight the ring sight. If flying a still and a video camera they do not necessary need to converge on a single location, in fact having them sighted parallel generally leads to a better product.

Removable Articulating Ring Sight Extender

Source: Schumacher

http://www.gethypoxic.com/manufacturers/schumacher/removable_articulating_install_instructions.pdf