

Business 8th

Mr. Armentrout

Packet 17-21

TO: All Families/Students
FROM: Dave Armentrout *Dave*
DATE: April 8, 2020
SUBJECT: IEP Modifications/Accommodations

Attached are copies of the Lesson 17-21 packets. If there are any questions regarding the lessons, please do not hesitate to send me an email at rarmentr@k12.wv.us or thru the Live Grades message center which can be accessed by clicking on the System Button and then the Message Center button. If your child receives any accommodations or modifications as indicated on his/her current IEP, remember to only complete the necessary part of the pack assignments according to those specifications.

Waterproof Camera's Lesson Questions

Answer the following questions based upon the reading material supplied. This assignment is for the entire 5-days. Have a Great Easter Break and hop to see you all soon.

Q1-What is the difference between underwater and conventional cameras?

Q2-How deep underwater can cameras be used?

Q3-Are these underwater cameras good in terms of image quality?

Q4-Is there optical zoom and what would it be used for underwater?

Q5-Can waterproof cameras shoot video and why would you use it?

Q6-What are the features in waterproof cameras that tourists would use and be beneficial?

Q7-What kind of batteries are used in underwater cameras?

Q8-What kind of memory card would these cameras need?

Q9-How would you decide which camera to buy if you were going on vacation and needed one?

Q10-What features would you see as being the most beneficial to you as a photographer?

3.3. Fujifilm FinePix XP80

3.4. Canon PowerShot D30

3.5. Panasonic DMC-TS30A

4. Infographics

5. FAQ

6. Sources

What Is a Waterproof Camera?

Everybody likes holidays. You can visit beautiful places and see amazing things, some of which are worth recording and keeping in your album. It may be a nice landscape, an underwater scene or snow-covered mountains. Though, you may be reluctant to take an expensive camera or smartphone to places where they could be easily damaged. Yet if you want to save your vacation memories, you should get a waterproof camera resistant to hits and falls, sand, and dust. Such a camera will easily shoot photos of deep-sea inhabitants or your water-sports' buddies and survive if you drop it on some rock or into the mud. We have chosen the most popular devices of this kind, so you are welcome to choose the right one for your needs and record the brightest moments of your life.

If you are fond of outdoor activities, you may also like our review of action cameras. ...Read more

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Best Waterproof Cameras

What Features to Compare

Extreme Capabilities

The first thing to consider when choosing a waterproof camera is the intended scope of application. All such cameras are rated differently and so, may suit or not different purposes. For example, if all you need is to record your child swimming in a pool and maybe occasionally take pictures in the rain, you wouldn't need the highest water protection. However, if you'd like to dive with the cam and take underwater photos, the protection should be high enough to withstand immersion up to 30 feet. For ski activities, the camera should also be freezeproof. The other properties to look for are shockproof and crushproof rates. If the camera is highly secured from external impact, it can be used in any extreme conditions fearlessly and still provide smooth operation and functioning.

Picture Quality ...Read more



Nikon W300

 **Check price**

NIKON IS ALWAYS THERE FOR YOU

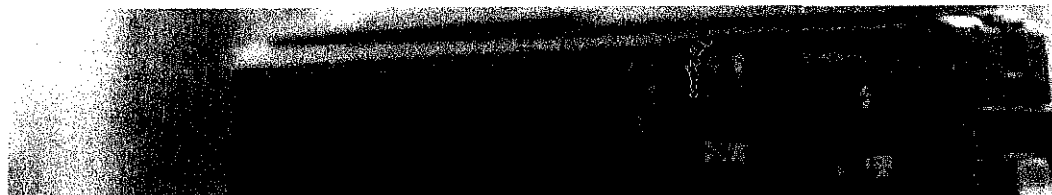
Although people in the middle of the 19th century when the first camera was just being invented and introduced to the public probably wouldn't even dare to dream it, in the modern world most people own at least one capturing device and virtually everybody used one of them a few times in their lifetime. But just because a camera or any other device that has the similar features is a handy tool for a variety of possible scenarios that individuals may or may not encounter some time in their life, that doesn't mean that everybody is a huge fan of the process of filming videos and shooting photos or the outcome of being in a motion picture or becoming part of an image.

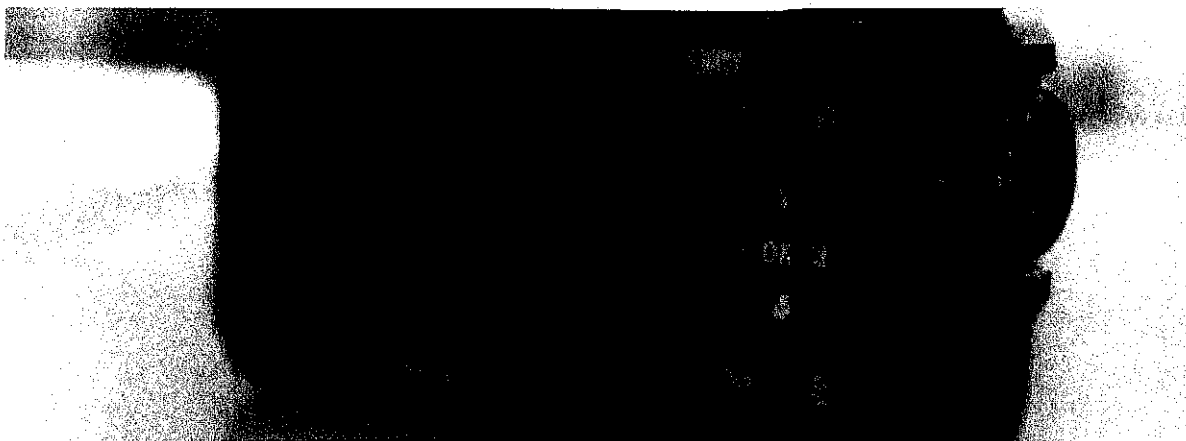
Some people love it though and it is hard to blame them for that. Shooting a video or a series of photos is not only a fun activity that you can enjoy regardless of your company or lack thereof, but it is also an art form that requires a tremendous amount of technique and the skill ceiling is virtually nonexistent when it comes to it. People shooting photos or videos have to consider the background and the foreground, the proximity of the desired object or subject to their camera, whether the framing is straight enough and the last but not least is the aspect of lighting which is a separate art form in itself. Naturally, not everything comes down to the skill of the user and a lot depends on the quality of your camera. And if the quality is what you're looking for, Nikon is always there for you when it comes to optics and imaging products, with their new W300 waterproof model upholding the companies' standards of delivering top-notch cameras to their loyal customers.



REVEAL WHAT IS HIDDEN

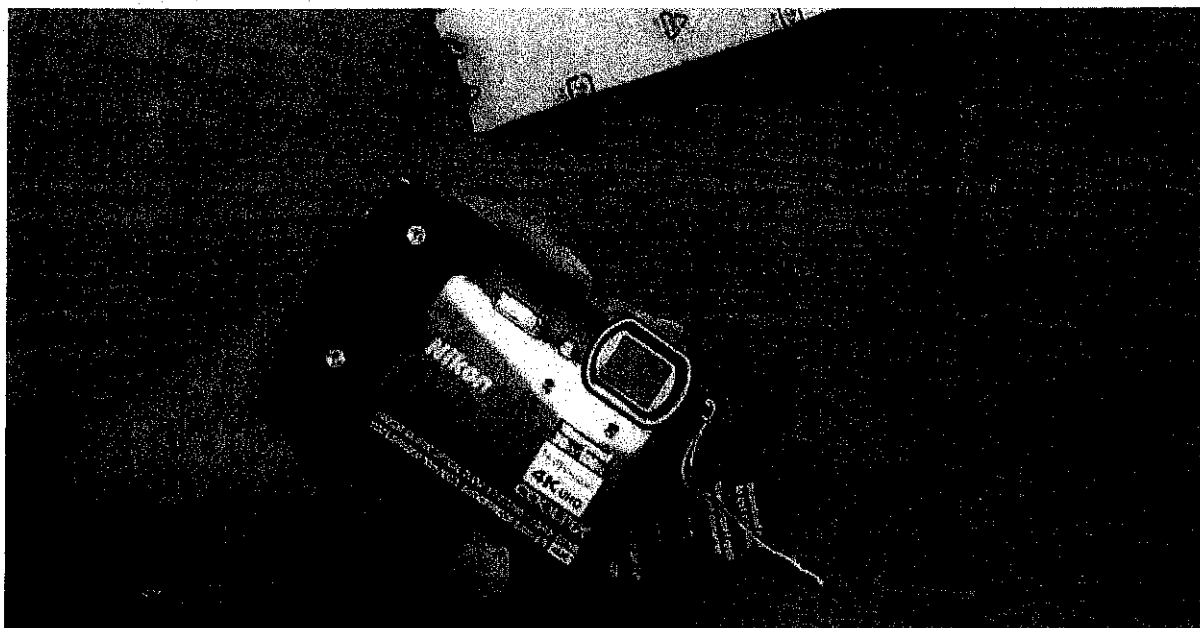
When it comes to a camera, one of the first things people pay attention to is rightfully the quality of the video that said camera is capable of shooting, generally manifesting in the highest possible resolution that the device supports. And since the model in question is Nikon, it comes as no surprise that the model is capable of shooting in 4K Ultra HD or 1080p Full HD videos with stereo sound. Thanks to the Short Movie Show feature, you'll be capable of combining your favorite clips into 30-second compilations and providing some background music and special effects with just a few clicks and no effort required. The W300 is equipped with a 16-MP backside illuminated CMOS low-light sensor with a Macro Mode function that when turned on will help you portray even the most inconspicuous details in flowers, plants, insects and more. It also comes with their own NIKKOR lens capable of 5x optical zoom and equipped with a hybrid vibration reduction feature that will keep your photos and videos steady, even when the path ahead gets bumpy.





SIMPLY INDESTRUCTIBLE

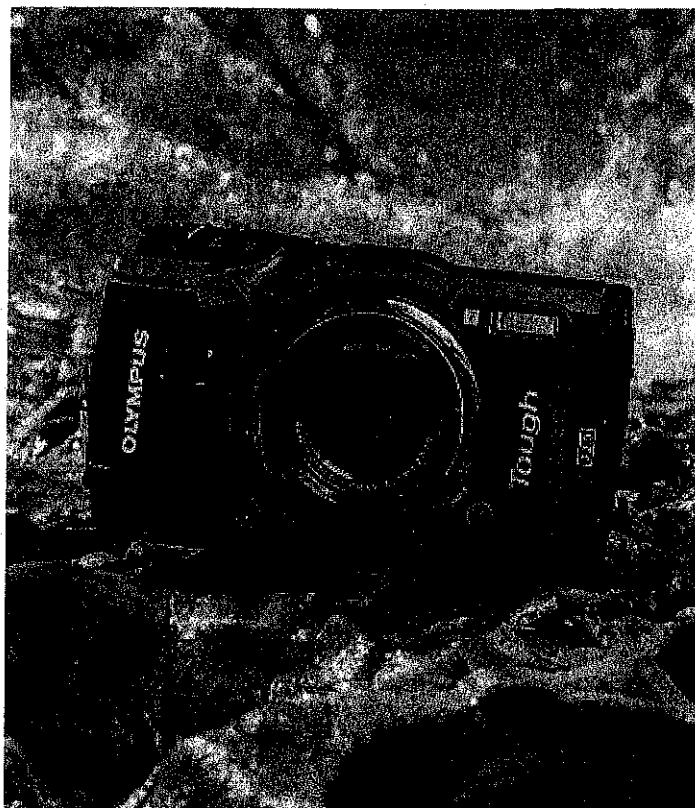
Naturally, since the model in question is advertised as a waterproof underwater digital camera, you would expect it to hold up even in the most extreme conditions. And your expectations would not be misguided since the W300 is capable of handling anything that you throw its way. The camera is waterproof down to 100 ft so you can take it with you on your snorkeling or scuba diving sessions or if you just simply wish to shoot in a pool. The model is freezeproof of up to 14°F, so skiing, snowboarding, sledging or any other exciting winter activity is an option that is available to you. Last but not least, the camera is also shockproof and dustproof, meaning you can take with you on you dirt biking or just down to the beach and you won't have to worry about what happens if you drop it or if some sand or dirt gets in the way. The camera is incredibly easy to control with a large 3.0-inch LCD screen and a dedicated Tool button gives you quick access to GPS, eCompass and other features. Some people may find the model to be a bit pricey, but with the kind of quality and resistances it provides, the Nikon W300 is worth every penny of that price tag.



ADDITIONAL INFO



Manufacturer



Olympus TG-5

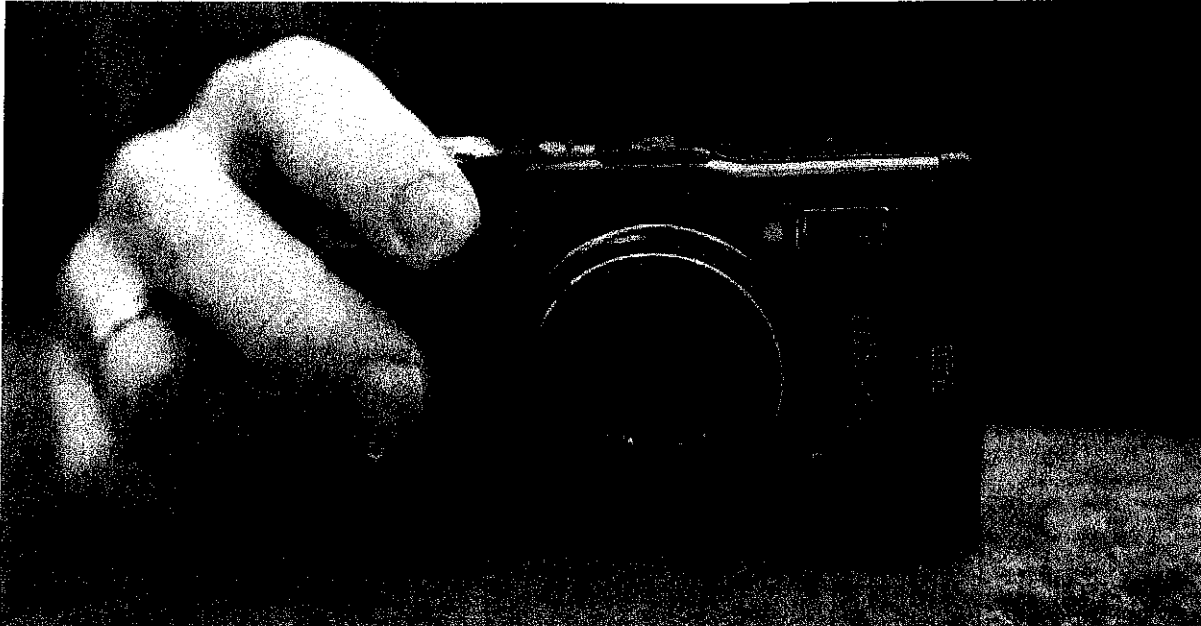
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WHAT IS YOUR PRECIOUS MOMENT?

The idea of celebrating and immortalizing precious moments in life through capturing them with a camera isn't an entirely new concept. People have been doing that ever since the invention of the first camera and some even argue that this idea was one of the main driving forces behind the previously mentioned invention. But everyone has a different definition of a precious moment and thus every individual's precious moment could differ entirely from someone else's.

Some people consider their most precious moments to be the ones coinciding their most impressive achievements, be it the moment they graduated college or university, the time they won some kind of a trophy or that brief time period when they finally managed to achieve a certain level of success in their professional life. Others consider the most precious moments in their life to be the time spent with their family and loved ones, whether it is Thanksgiving or Christmas where everyone gets together in order to celebrate or a birth of their child welcoming a new page in their life. Some people's precious moments are the ones where they feel the most alive and are able to appreciate every second they spend on this Earth during that brief period of time. It may involve the time they told their significant other they loved them for the first time or the time they spent

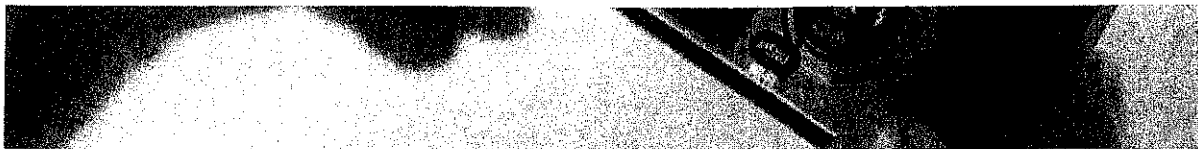
parachuting or scuba diving feeling the kind of adrenaline rush that makes your heart beat faster than ever before. Regardless of what type of person you are, the Olympus TG-5 Waterproof Camera will be able to accommodate your needs.



THE ENVIRONMENT DOESN'T MATTER

Although Olympus TG-5 is the kind of camera that will be able to satisfy virtually any customer regardless of their lifestyle and preferred way of spending their pastime, the camera is an absolute steal for anyone that doesn't like to sit still and likes to put himself in the situations that not everybody would necessarily describe as safe and harmless. If you're the type that likes to explore coral reefs or any other form of marine life and would like to shoot some videos while you do so, the camera features a protection against water of down to 50 ft. If mountain biking is your thing and you can't wait for the weekend to come so you can spend some time riding over rough terrains, the model has you covered with a protection against being dropped from over 7 ft and a crushproof structure capable of withstanding up to 220 pounds of force. Of course, being dropped or crushed is not the only potential danger a camera can face in this kind of environment, which is why this model also features a solid protection against dirt and dust.





120 FRAMES OF PASSION

Now, protection is great and important when it comes to this type of model, but this is a camera after all and a camera ought to be capable of shooting a quality image. People behind Olympus TG-5 are more than aware of that which is why this device comes equipped with a new 12MP high-speed image sensor for improved low light performance and noise reduction. And since we're talking about a premier camera in the current year, the model is also capable of capturing your adventures in vivid Ultra HD so you can watch your mountain trip, coral reef dive or a desert hike in a spectacular lifelike resolution. The camera also features Full HD 120 fps high-speed video for those moments where 30 or 60 frames per second just wouldn't be enough. Last but not least, the device also comes with built-in Action Track Sensors so you can record your movements and environmental data. You'll find a GPS for latitude and longitude, a compass for direction, a temperature sensor, and a manometer for altitude and water depth. So no matter where you like to spend your free time, the camera will always be ready to accommodate your needs regardless of the environment you put it in.



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Manufacturer

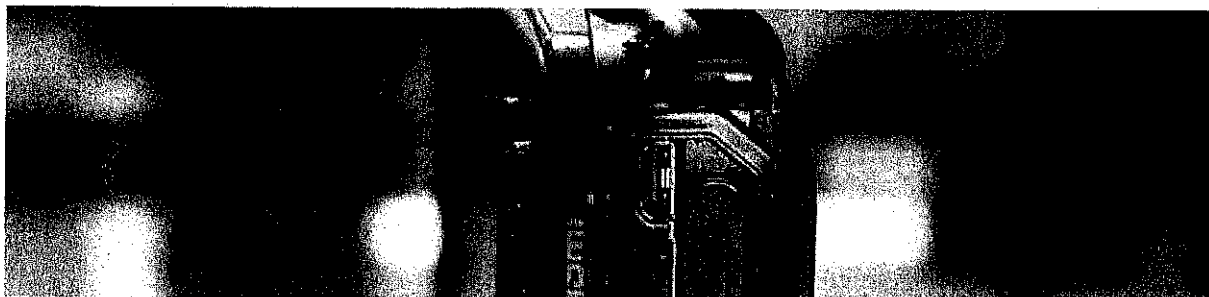


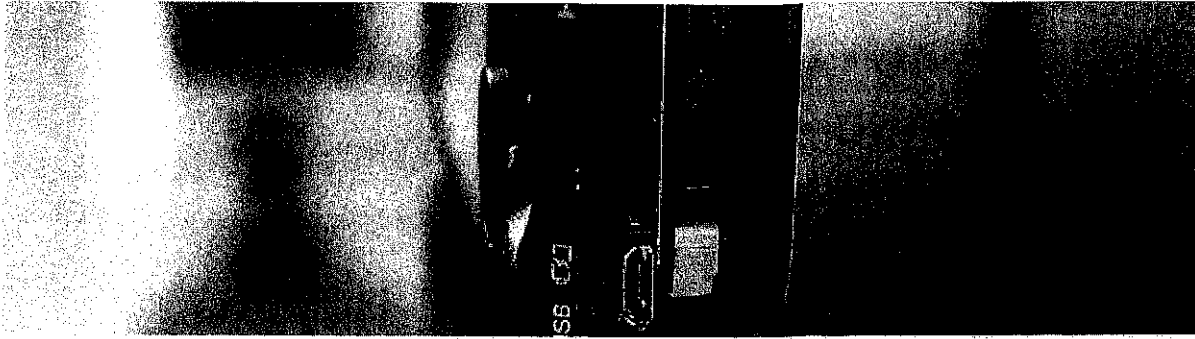
Fujifilm FinePix XP80

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ULTIMATE PROTECTION

The Japanese have a long-term experience in the production of amateur and professional photo equipment and accessories. Fujifilm is one of the world-known leaders in this sphere. This review is about Fujifilm FinePix XP80 which may become your good companion for a vacation or an extreme adventure. The active adventurers will appraise the usefulness of this Fujifilm camera under the toughest conditions. The FinePix XP80 device features the IP68 security grade meaning it is 4-way proof: it withstands sand and dust, is waterproof up to 50 feet and can be dropped from the 6-foot height safely. You can confidently take it for snorkeling or scuba diving and make high-quality pictures of the sea creatures. It works in the 14° F frost allowing you to shoot cool photos while skiing or snowboarding. The double-lock mechanism of the battery compartment prevents the cover from incidental opening. Heat or frost, sea or hard soil, you will always be able to record and save the best memories with this Fujifilm camera.





SHOOTING QUALITY AND MODES

The CMOS sensor size making 1/2.3 inches with the optical resolution of 16.4 MP allows you to shoot photos with the top quality in every detail and minimum noise. The Fujifilm waterproof camera boasts a continuous shooting mode with the speed of up to 10 pictures per second or ultra-high-speed of 60 photos. The modes can be activated by the special Burst Mode Button. A wide choice of other shooting modes includes almost all possible scenes and events. You will definitely find something suitable for your particular situation: whether you are in the mountains, desert or underwater. Impressive, Fujifilm guarantees you clear and vivid colors even in the underwater shooting modes with the macro zoom. The camera shoots video with 1080p resolution that can be watched on any large HD TV-screen. You will be able to invite your friends to watch a real movie of your own adventures. If you wish to record the same objects at a certain interval for time-lapse scenes like urban life or sunset, use an Interval Shooting Mode. You can select 10 minutes, 5 minutes, 60 seconds, 30 seconds or 15 seconds intervals. Thus, you can easily make a bright movie featuring the sun going down or a flower opening!



SPECIAL FEATURES

As for the extras, this Fujifilm FinePix camera has a standard jack for charging, USB- and HDMI-ports for file transfer and connection to PC or TV. We should also mention the available Wi-Fi allowing you to transfer files to smart gadgets. Having Fuji Remote Camera app installed on your smartphone or tablet, you will be able to control the camera right from your digital gadgets, which

is a convenient feature for selfies and group shots. The power supply is the Li-ion battery NP-45S charged from the mains and sufficient for up to 210 photos. You can also use the FinePix XP80 as an Action Camera to record and broadcast your extreme adventures or sporting events. Note that this camera is available in different bright colors!



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User Manual



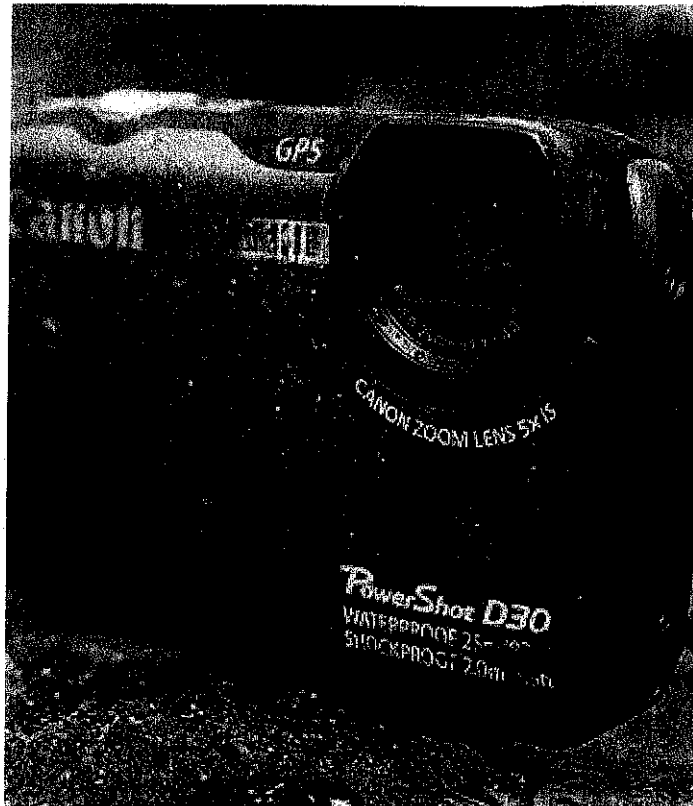
Manufacturer

VIDEO

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Fuji XP80 Underwater Shockproof Digital Camera Unboxing & Initial Impressions (Finepix XP80)



Canon PowerShot D30

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UNSINKABLE ITEM

If you're planning to set off for a journey to the coast, make sure to get a waterproof camera to use in any weather conditions without fear or worry about its functionality. The Canon PowerShot D30 is one of such cameras that may suffice for the needs of most adventurous customers. From the first glance, you wouldn't think of it having anything special, for it looks pretty much like any conventional camera. However, the cam design is rather misleading. When you look at its tech specifications, you'll think absolutely different! The Canon PowerShot D30 is waterproof and can be immersed in the water up to 82 feet deep, it can be used in winter in harsh wind at temperatures as low as 14 degrees F. Among many other compact cameras, this one is known to be the deepest waterproof model capable of shooting top-quality pictures at an extreme depth. The camera features a simple, ergonomic design without any loose parts, falling plugs, etc. for ease of use and maintenance. The lenses are waterproof sealed and shifted to the right. The Canon PowerShot D30 features GPS to track your routes and store them in memory. The Map Utility application having been installed on your phone, you'll be able to share your memorable shots with your family in an instant and look them through on social websites together with friends on coming back home.



SAVE EVERY BRIGHT MOMENT

Besides the superior protection this Canon camera boasts, it can shoot the high-quality photos both on the land and in the sea. You may take it with you for a swim or other water activities and always return with bright photos. The wide-angle lenses allow you to make perfect group pictures or shoot landscape views. The shots are always vividly bright regardless of the ambient light. The HS technology and intelligent IS make your shots always sharp and clear thanks to the 12.1 MP CMOS sensor with the backlighting. The DIGIC high-speed processor provides beautiful low-light photos. This is particularly essential if you are shooting underwater in the dim light. The Macro Mode allows you to get closer to the smallest specimens both in the sea depth and on the land. The Smart Auto Mode provides you with 32 pre-set scenes for shooting, including 21 options that can be used for video. On returning home after the trip, you can make video clips out of your photos in the Video Digest Mode. To sum it up, Canon camera can assist you in recording landscapes literally everywhere in the world regardless of the environment and weather conditions.



TIP

Active people who practice camping in the woods, hiking, and traveling in general usually carry a set of essentials with them. So, we recommend you to read our review of the hydration packs and choose the model that you will use during your sports activities.



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User Manual



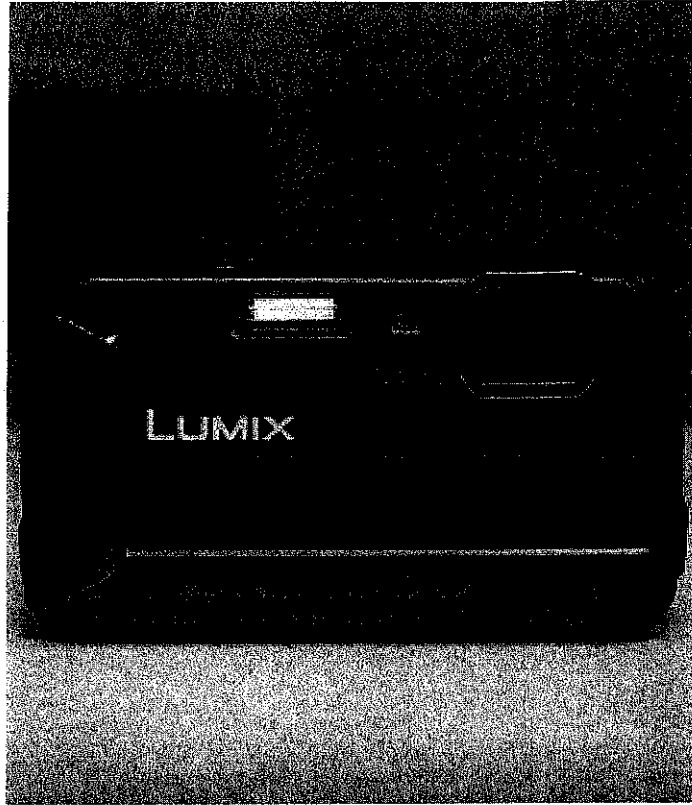
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Canon PowerShot D30 : Review

**Panasonic DMC-TS30A**

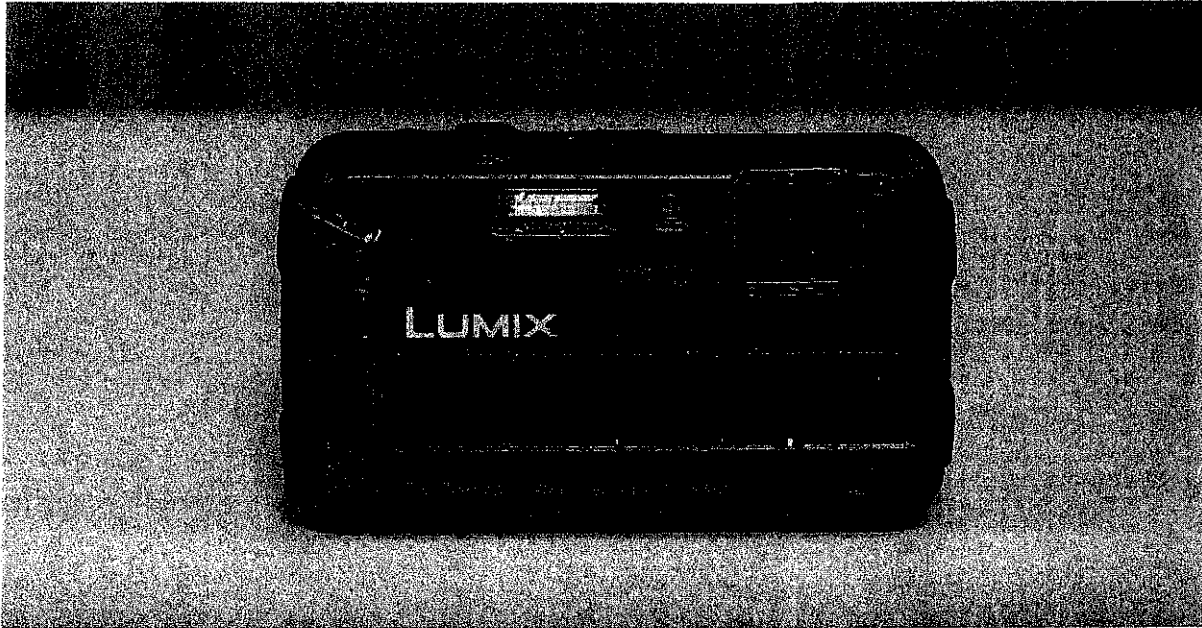
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TIME FOR A NEW ADVENTURE

Everybody has a different definition of a precious moment and everyone puts different value towards certain experiences. But it does seem that as a society, we have placed a collective value on the active lifestyle and on those moments that tend to induce a tremendous amount of adrenaline and more often than not even present themselves in a somewhat life-threatening manner. But why exactly do we hold these kinds of moments in such a high regard and look up to the sort of people that manage to maintain an active lifestyle?

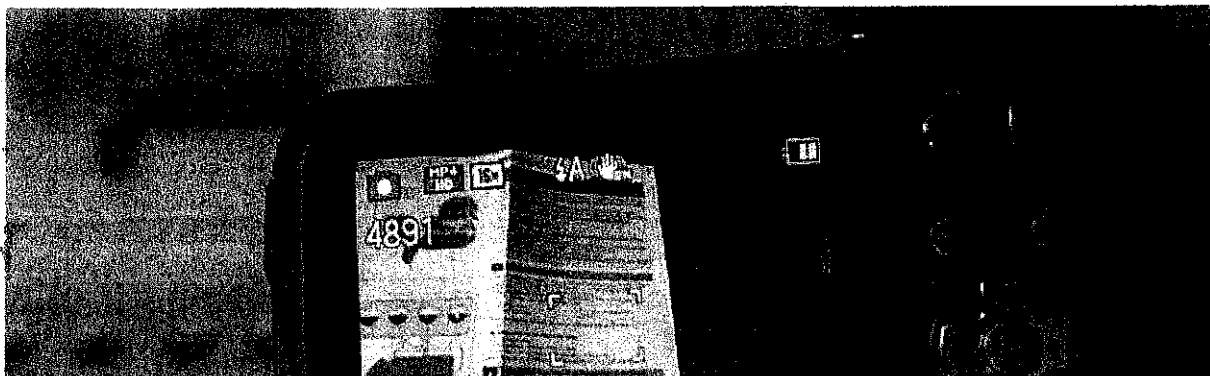
Well, part of it certainly has something to do with the fact that most of us are stuck in the cubicles of a cramped office doing the type of job that a lot of people never really intended to do and these kinds of people and moments that they experience give us the ability to live an exciting life vicariously through them. Another part of it may have something to do with the fact that we are active and social creatures and whether we came to be like this due to the intelligent design or some kind of evolutionary incident, we were certainly never meant to sit idly in front of a screen doing some kind of repetitive, menial job.

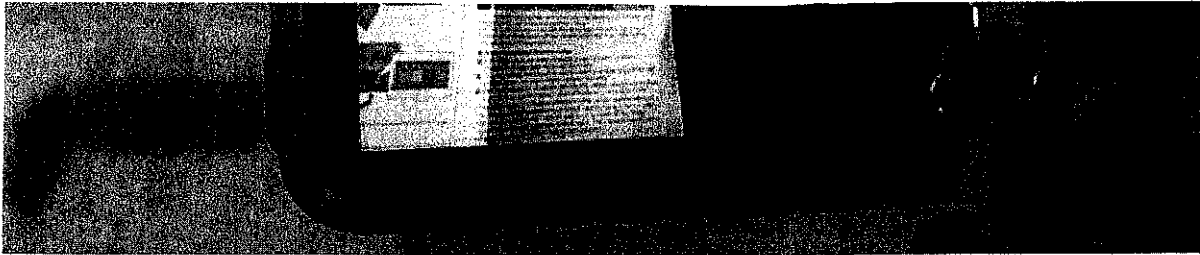
Whatever the reasons for this phenomenon may be, you'd be hard-pressed to find somebody who honestly doesn't truly enjoy spending his time swimming in the ocean, climbing a mountain or simply exploring a new countries' wildlife and all it has to offer. So if you feel bored or tired of your boring mundane life, just get a ticket to a place you've never been before and grab the Panasonic DMC-TS30A LUMIX Active Lifestyle with you in order to immortalize your exciting new adventure.



A HANDY DEVICE

Although the camera may be a somewhat unique piece of equipment when it comes to a variety of aspects, every technological device is only as good as it's convenience and accessibility. You may have a powerful camera with a top-notch sensor capable of delivering the highest amount of megapixels, but what good does it do you if it isn't handy and using such device causes more discomfort than it is worth? People behind this model thought of that which is why this camera comes with a bunch of cool features that will make using this device just a walk in the park. Creative Control feature in the recording mode and Creative Retouch function in playback mode will give you the ability to turn the most regular situations into highly expressive images. Creative Effects include but aren't limited to Expressive, Retro, High Key, Low Key, Sepia, Dynamic Monochrome, Impressive Art, High Dynamic, and Cross Process. With the Creative Panorama function, you can shoot and overlay consecutive horizontal/vertical images, then add filter effects with Creative Controls.





TAKE THE CAMERA WITH YOU

Despite a very conservative price tag of less than \$150, this camera isn't the one to shy away from tough situations and unsafe environment. The device features a quad-proof protection for those leading an active lifestyle and is capable of surviving water down to 26 feet, features a shockproof that will prevent any damage as long as the camera is dropped from a position no higher than 5 feet and a low temperature is not going to affect its performance as long as it doesn't drop lower than 14 degrees Fahrenheit. The device comes with a Torchlight feature that helps record beautiful videos even in dusky underwater environments or in camp at night. And even when camera functions are inactive, you can turn the light on to illuminate subjects. Naturally, the camera also features a microSD slot, but if you ever find yourself in a situation where your SD card is full, don't worry, for the model comes with a reserve of built-in memory that automatically provides 220MB of additional storage. That kind of memory space is enough to store up to 34 images. So stop wasting your time sitting in front of the computer, grab the Panasonic DMC-TS30A and enjoy the active lifestyle you were always meant to lead.



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Manufacturer