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From our National Geographic series, the Explorer NT114CF Newtonian Astronomical Telescope is a perfect portal into the realm of deep sky observation. Offering a 114mm aperture and a 500mm focal length, the telescope comes with two Plossl eyepieces that produce images with excellent definition and contrast. The set also includes an adjustable tripod, a red dot viewfinder, a Smartphone Camera adapter, a 2X Barlow lens, Stellarium computer software download and a star map. Just add clear, dark skies on a moonless night and a red flashlight to protect your night vision and you're set to explore the universe! Page 2 Embark on a fascinating adventure through our solar system and beyond with National Geographic's 70mm telescope. This refractory has unique carbon fiber styling wrap that gives it a sturdy edge and a 70mm aperture that will work well in lunar, planetary and deep sky observing situations. Its manageable 700mm focal length makes it very portable and results in a versatile f/10 focal ratio that offers both wide fields and powerful views. For those looking to make their first foray into astrophotography, the range also comes with an adapter as there allows users to secure their smartphone to the eyepiece in order to capture and easily share images. The National Geographic 114mm Reflecting Telescope offers excellent views of the night sky. And you can attach a camera to take pictures of the stars and planets. Perfect for novice astronomers Large 4.5 aperture for sky viewing Complete telescope package including plossl eyepiece Smart phone adapter to capture sky images on your smart phone Downloadable Celestial Software and Star Map (planisphere) Membership is required to complete an in-club or curbside pickup purchase at Sam's Club. This reflective telescope shows not only the large planets, but also bright deep sky objects as you observe under dark skies. Fully equipped, and with an easy-to-use mount, this telescope is ideal for a beginner who has no astronomical knowledge, but wants to immerse himself in space. Explore Jupiter's moons and cloud bands or Saturn's majestic rings, or find other galaxies, star clusters, and nebula on a moonless night. Note: Reflector telescopewith optical design Newton is very good for astronomical observing on the starry night sky. But these telescopes are not very useful for observing landscapes and nature in daylight. Therefore, we propose refractor (lens) telescopes for landscape and nature observe. SPECIAL DRAGreflektortelescope telescope for beginner observation of the planets and bright deep sky object altazimuth mountingSCOPE OF SUPPLIEDYtelescopealtazimuth mounting with tripod eyepieces (mm 4.9 mm, 25 mm)finder scope 6x30erecting lens 1.5xBarlow lens 3x Application Application Field for application Planetobservation Depth sky Observation Focus group Focus group Beginner Product family ProductFamily Reflector telescope SPECIFICATIONS Magnification from from from Magnification up to 675 Maximum recommended magnification 228 Mirror/lens diam. 114 mm Focal length 900 mm GENERAL TECHNICAL DATA Color black Mount Type Azimutal Extended warranty 5 years Application field Field for application Planetary Observation Deep sky Observation Focus group Focus group Beginner product familyAutoreference telescope OPTICAL SPECIFICATIONS Magnification from 36 Magnification up to 675 Maximum recommended magnification 228-mirror lens/mirror diame. 114 mm Focal length 900 mm GENERAL TECHNICAL DATA Color black Mount Type Azimutal Extended Warranty 5 years © 1996-2015, Amazon.com, Inc. or its affiliates if you are looking for a cheap starter telescope for your children, then the National Geographic Telescope NT114CF is a great choice for money. You can find this telescope on Amazon at starting prices from \$60, so it's very cheap, and you'll get a decent telescope compared to some toy telescopes. The National Geographic Telescope NT114CF is a Newtonian reflector telescope that uses mirrors to produce the image instead of lenses (refractive telescopes). It has a carbon fiber body, which is an excellent feature among the telescopes because it is significantly reduced the weight of the instrument. Overall, the perfect choice for children and beginners. AFFILIATE DISCLOSURE: I hope you love the products I recommend! Just so you know, I can collect a percentage of sales or other compensation from the links on this page. Thank you very much if you use my links, I really appreciate it. Specifications Newtonian reflector designcarbon-fiber tube114mm mirror aperture500mm focal point viewfinder26mm and 9.7mm Plossl eyepiece (19x and 51x magnification)1 2x Barlow lens (doubling of eyepiece magnification)fast focal ratio F/5.2alt-azimuth mountaluminum tripod Carbon-Fiber Optical Tube assembly(OTA) Advantage The main advantage of this telescope is carbon-fiber tube. So why is this important? The first reason is the weight of the telescopic tube. Lighter scopes require fewer sturdy tripods to mount the optical tube, and while looking through the scope you will encounter vibration. Lighter scopes tend to have less vibration when touching the telescope, and the vibrations are shorter in length. The second reason is the thermal property. Before your stargazing session, you need to leave the telescope outside to cool down to outdoor temperature. When the temperature is not even, the rising heat from the inside of the tube (even a very small one) will cause image distortion and focusing problems. Most telescopes are made of aluminum, and it takes longer to cool down than the carbon fiber. A carbon fiber tube adapts better to temperature change, which can also cause focusing problems. Overall, having a carbon fiber tube in such a cheap telescope is a nice feature. Accessories In the Box you will find additional accessories in the box, such as a smartphone adapter and a star map. The smartphone adapter is the Copper. You can use it to take pictures and videos with your smartphone camera when you attach it to the eyepiece holder. I don't find this adapter very useful because it doesn't work well with all smartphones, and it's dangerous because the smartphone can easily fall off if it doesn't have a smooth surface to hold it with suction cups. I will explain this later in the article, and I will also give you a better solution for this. Setting up the telescope – Instructions This telescope will be almost completely fully assembled, so it's easy for you to set it up. You want to set the tripod first. Spread out the legs and press the spreader rod between the legs. Take the accessory washer and mount it on the look-in bar by turning it to a safe position. You can use this washer to place your eyepieces and barlow lens during the stargazing session. Now, you can take the bracket head, which has a metal construction. Remove the bolt on the bottom and place the head on the stand. Then fasten the bolt and tighten it from the bottom. You also need to thread the handle that controls the movement of the bracket, and it also acts as a lock for height swivel. The azimuth locking knob is on the side of the mounting head. Once you have everything secured and pull up, take the actual telescopic tube, which already has the dovetail mounted on the bottom. Place the tube with the dovetail rod on the bracket and secure it with a knob on the side. The last thing is to attach the red dot finder to the top of the telescope. Collimation of NT114CF Collimation is discussed as a disadvantage for Newtonian reflectors. What it means is that you always have to align the primary mirror and secondary mirror to get the perfect image and experience from the reflective telescope. But it's a simple process, and with this telescope it's even easier. The primary mirror is permanently assembled and comes together from the factory, so you don't have to worry about this procedure. It is now commonly used by telescope manufacturers with smaller and cheaper reflective telescopes. However, you can still adjust the secondary mirror, but it should also come collimated from the factory. If you want to learn more about the collimation of reflective telescopes, check out my article HERE. Using a smartphone with NT114CF Telescope And now, back to smartphone adapter disaster. As I mentioned earlier, I don't recommend using the adapter unless you modify it by strapping the smartphone to the adapter with a rubber band or something else. I have to give credit to the manufacturer that they include this accessory, but you will get better with some cheap smartphone adapter from Amazon. If you want better results and step up the game a bit, I recommend checking my article on how to connect a webcam to your telescope. Recommended Accessories Upgrade Various smartphone adapter is the first upgrade you can do. Secondly, consider upgrading the eyepiece collection press more from this telescope. It's a minimal investment of around \$20, and it will give you more magnification options and better image quality. I am very happy with the eyepiece kit from SVBONY on Amazon. Magnification With NT114CF The magnification of the telescope is determined by the focal length of the telescope and the focal length of the eyepiece you are using. This telescope lists 19x and 51x magnification with two eyepieces in the box. You can calculate the magnification by dividing the telescope focal length (500mm) by the focal length of the eyepiece (26mm,9.7mm), which gives you 19x and 51x magnification. The included Barlow lens can double eyepiece magnification to 38x and 102x with eyepieces in the box. The Barlow lens is placed before the eyepiece in the eyepiece holder, and you shoot the eyepiece into the Barlow lens. The magnification is also referred to as the force of the telescope. High power is good for the moon and planets, but for most of the deep sky objects, it is better to use low power eyepieces to get a larger field of view. Some deep sky objects are larger than the moon in the sky. How to use the National Geographic Telescope NT114CF The first rule that applies to all telescopes is never to look into the sun unless you have a proper solar filter attached to the front of the telescope. You can permanently damage the eye, so be careful with the help of the telescope during the day, especially with children. But this is an astronomical telescope, not a spotting scope, and the difference is that in Newton's astronomical telescope, the image is upside down. This is not an error but a function. It doesn't matter when you're stargazing because you don't even notice that the image is upside down, but for terrestrial use, it's not useful. You will need to do the red dot finder alignment during the day, so be careful with the sun, as I mentioned earlier. To adjust it, you need to find an object like a roof or tree in the distance and point the telescope towards it. Center it in the eyepiece and align the red dot in the finder with adjust ing clocks, so when you point the red dot at the object in the sky later in the night, the object will be centered in the eyepiece. You will get a star map in the box, but to find the object, at first, it is a good idea to use a smartphone app like Star Chart or someone else to help you find deep sky objects in the sky. However, it is highly recommended to learn the sky and not use any light source while stargazing. The image you will see, and the overall experience is also greatly influenced by your night vision adaptation, which can take a few minutes in the dark environment. And you want to use the telescope in the dark place away from the city's light pollution. Many times I hear from people that they are disappointed with the telescope's performance, but half of the successful stargazing experience is the dark sky and your night vision adaptation. So try not to the smartphone to navigate the night sky and learn it over time. What can you expect to see through the NT114CF First thing first, you shouldn't expect to see anything like the images of the deep sky objects on the internet. These colorful and high detailed images are made with expensive cameras and very long exposures. As I said before, the key is the dark sky. You can expect to see some of the brightest Messier objects like the Orion Nebula, the Andromeda Galaxy, or the Pleiades. As for the planets, you don't need a dark sky to see them, and you can observe them even from the city. You will see Jupiter with a few moons and Saturn with its rings, but other planets will be just small dots. And of course, the moon will be the best experience. It's easy to see craters and terrain details, so this is the best goal to observe with the NT114CF telescope. Is the NT114CF Telescope worth it? For the price, it's definitely worth it. But don't expect miracles. It's a great telescope for kids to introduce them to astronomy or as occasional entertainment on camping trip and barbecue night in your backyard. If you're serious about astronomy and you're willing to spend more, you can check some of the Dobsonian telescopes like the Orion SkyQuest XT8 that I recommend for more enthusiast novices in astronomy and stargazing. Stargazing.

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