Amcrest AMSS60-G 20-60x60 Spotting Scope

User Manual

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Welcome

Thank you for purchasing an Amcrest Spotting Scope!

Whether your interest is in sports, bird watching, nature, wildlife, hunting, or other activities these spotting scopes offer the finest optical quality to fit your needs.

1 Overview

1.1 Spotting Scope Features

This spotting scope features the following items:



1.2. Assembly

Your Amcrest spotting scope will come equipped with the following items: A tripod, a protective carrying case, a phone adapter for digiscoping, and a lens cleansing cloth. For best results it is recommended to maintain your spotting scope and ensure the objective lens is free from debris or obstructions.

1.2.1. Before You Start

Remove the scope from its protective case and attach it to your tripod. To attach the scope to your tripod, connect the threaded hole on the tripod adapter of the scope to the locking screw located on the tripod. Turn the locking screw in a clockwise motion until the scope is secure. For best results, using the spotting scope on a solid tripod is recommended to be able to see sharp and steady views as well as provide more accurate target acquisition.

Note: Make sure your scope is secure to the tripod and remove the lens cap prior to acquiring a target.

1.3. Basic Use

When the scope has been secured to the tripod you can begin using the scope. On the tripod you will notice an extended lever. This lever is used to lock and unlock the movement of the scope while it is begin used on the tripod. To unlock and begin adjusting your scope, turn the lever counter-clockwise to loosen and then fix your scope onto your target. Once your target is acquired, turn the lever clockwise to tighten the scope and tripod into place. This will secure and lock the scope in the direction of the target.

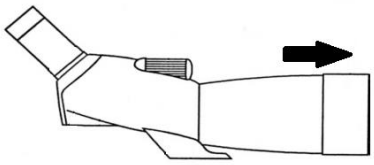
1.3.1. Adjusting Magnification



This scope allows you to magnify a target up to 60x. To adjust the magnification on your scope, rotate the zoom ring to change the magnification level of the spotting scope. The scope ranges from 20x – 60x magnification. When proper magnification has been reached, refocus the image as needed. As a rule of thumb, the brightest and widest field of view will always be the view that requires the lowest magnification.

1.3.2. Using the Sunshade

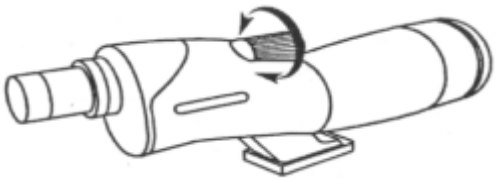
If there is too much stray light in your field of view the scope has a built-in sunshade. The sunshade for the scope is an extendable ring located at the front of the scope by the objective lens. To operate, move the sunshade forward to extend it.



To retract the sunshade, move the sunshade back to its original position. You can adjust the sunshade in accordance with the amount of light that is begin produced at the time of target acquisition.

Note: Never look directly at the sun with the naked eye or with your spotting scope. Permanent eye damage may result.

1.3.3. Adjusting the Focus



To focus your spotting scope, slowly rotate the focus knob until the image in the eye piece is clear and sharp. Refocusing is usually required if the magnification is changed. If you feel the focus knob no longer moves any further in either direction, then you have reached the end of the focus range. When the

focus knob has reached its limit, do not try to force it to go any further. Instead, it is recommended to refocus the spotting scope by turning the focus knob in the opposite direction. Once an image is in focus, turn the knob clockwise to focus on a closer object and counterclockwise for more distant objects.

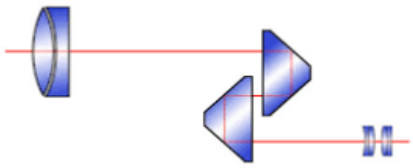
1.3.4. Instructions for Care

Maintaining your scope is good practice to help ensure the effectiveness of your experience. For more information on how to best care for your scope refer to the helpful tips below:

1. When wiping the lenses, use the lens cloth that was included with your scope. If the cloth becomes unusable you can use a soft, lint less cloth in its place.
2. To remove any remaining dirt or smudges from the objective lens, you can add one or two drops of isopropyl alcohol to the cloth.
3. Keep the lens cover that was provided with your scope on the objective lens when not in use.
4. The scope is quite durable however to avoid damage, make sure to use the protective carrying case when the scope is not being used.

1.4. Porro Prisms

This scope features a built-in BK-4 Porro prism for optimal coverage. Porro prisms incorporate an optical path that directs light in a Z or zig zag-like pattern as represented in the diagram below



In a nutshell, light is directed through the reflective Porro prism system in a Z pattern with four reflections to bring the image upright and forward to reach your eye. This creates a stereoscopic image where you have a 3D-like, rich depth of field.

1.4. Technical Specifications

Model: A20-06	
Magnification Factor	20-60x
Objective Size	60.0mm
Focal Length	480mm
Exit Pupil	3.2-1.1mm
Eye Relief	17-13.5mm
Field of View	@1000m – 36-19
Twilinght Factor	30
Coating	Full Multi-Coating
Prism Glass Type	BK7 Porro
Prism Coating	FMC
Tripod	Yes

2 Digiscoping

What is Digiscoping?

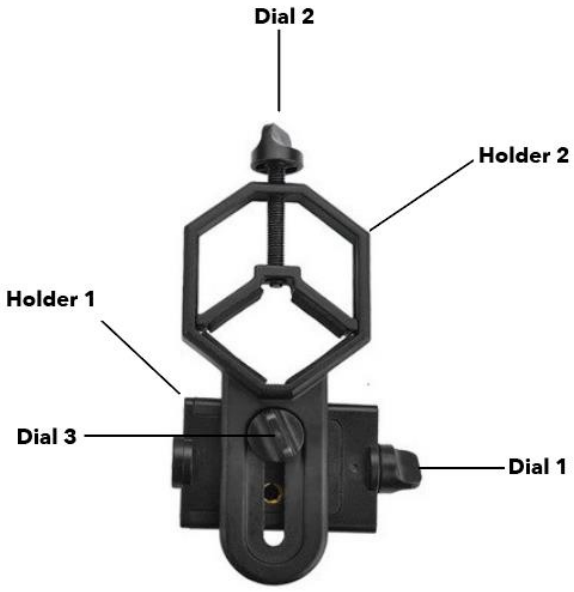
Digiscoping is the practice of shooting digital photos or videos through a spotting scope. The spotting scope magnifies the target image for the camera, just as it magnifies the target image during visual use. This scope allows for the use of digiscoping through the utilization of a universal phone adapter.

2.1. Universal Phone Adapters

The Amcrest 20-60x60 spotting scope can fit any smartphone universal phone adapter. If you have a universal phone adapter and would like to install it on your spotting scope, please follow the instruction set listed below.

2.1.1. Installing a Universal Phone Adapter

On the phone adapter you will notice three adjustable dials; Dial 1 will represent the holder, Dial 2 will represent the eye piece adjustment, and Dial 3 will represent.



Placing Your Mobile Device in the Holder.

To begin, turn Dial 1 (located on the side of the mobile phone adapter mount) to extend the width of the holder.

1. Place your phone or mobile device into the holder making sure not to impede any functional keys in the process.
2. Adjust Dial 1 according to the size of your phone on the holder and turn the dial clockwise to secure the phone to the holder.

Adjust the Mobile Device Height into Position

1. Turn Dial 2 located on the top of the mobile device mount and extend the diameter of Holder 2. Try it on the eyepiece of your spotting scope, but do not secure it.
2. Loosen Dial 3 on the back of the mobile device adapter mount and adjust your phone up and down or left and right until the lens of your phone's camera is facing the center of Holder 2. **Note:** This is to ensure the pictures are at the center of your phone screen.
3. Tighten Dial 3 to fix the position. Make sure not to overtighten it; prepare for later adjustment.

Use for Digiscoping

1. Insert the eyepiece of the spotting scope into Holder 2 and turn Dial 2 to fix the phone adapter to the eyepiece. Make sure not to overtighten the adapter to the eyepiece.
2. Once the phone adapter is secure to the spotting scope, turn your phone camera on. You can adjust your phone camera until you find the most accurate position.
3. When adjustment is complete, turn Dial 3 to the phone camera into position.
4. Adjust the focus knob of the spotting scope to fixate the scope on the target. When a clear shot is acquired, you can use your mobile device to take pictures/video of the object.



Appendix A: Toxic or Hazardous Materials or Elements

Component Name	Toxic or Hazardous Materials or Elements					
	Pb	Hg	Cd	Cr VI	PBB	PBDE
Sheet Metal(Case)	O	O	O	O	O	O
Plastic Parts （Panel）	O	O	O	O	O	O
Circuit Board	O	O	O	O	O	O
Fastener	O	O	O	O	O	O
Wire and Cable/Ac Adapter	O	O	O	O	O	O
Packing Material	O	O	O	O	O	O
Accessories	O	O	O	O	O	O

O: Indicates that the concentration of the hazardous substance in all homogeneous materials in the parts is below the relevant threshold of the SJ/T11363-2006 standard.

X: Indicates that the concentration of the hazardous substance of at least one of all homogeneous materials in the parts is above the relevant threshold of the SJ/T11363-2006 standard. During the environmental-friendly use period (EFUP) period, the toxic or hazardous substance or elements contained in products will not leak or mutate so that the use of these (substances or elements) will not result in any severe environmental pollution, any bodily injury or damage to any assets. The consumer is not authorized to process such kind of substances or elements, please return to the corresponding local authorities to process according to your local government statutes.

Note:

- **This user manual is for reference only. Slight differences may be found in the user interface.**
- **All the designs and software here are subject to change without prior written notice.**
- **All trademarks and registered trademarks mentioned are the properties of their respective owners.**

References and Contact Information

To contact Amcrest support, please do one of the following:

- Visit http://amcrest.com/contacts and use the email form
- Call Amcrest Support using one of the following numbers:
  Toll Free US: (888) 212-7538
  International Callers (Outside of US): +1-713-893-8956

  USA: 713-893-8956

  Canada: 437-888-0177

  UK: 203-769-2757
    - Email Amcrest Customer Support support@amcrest.com

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