



I'm not robot



Continue



without a filter may seem flat because of the atmospheric haze. This haze may be evident in the aerial photographs even though the photographs are made in the clear days. Haze has a reflective effect and spreads shorter ultraviolet radiation and blue light. Since all movies are sensitive to these shorter wavelengths, they record as veiled above the scene when filters are not used. These veiled images become more pronounced as the height of the aircraft is increased. This is because the mass of haze (water vapor and dust particles) between the aircraft and the soil increases. The filter used to control the haze within the range of airwork in color from light yellow to red. When you use this filter, photographic images are recorded by light with longer wavelengths (green or red) that are not appreciated by haze. Filters, such as Kodak Wratten No. 2B or 2E, absorb ultraviolet radiation and reduce the effects of haze without compromising visible color monochromatic performances. When larger haze controls for black-and-white photography are required, a deeper yellow or red filter should be used. However, when this deeper colored filter is used, color tonal presentations are affected. The amount of haze control in black-and-white air photography increases with the use of the following filters in this order: No. 8 (yellow), No. 15 (in yellow), and No. 25 (red). The greatest penetration or control of haze for black and white air photography can be obtained by using black-and-white infra-red sensitive films with appropriate filters, such as No. 25, No. 29, No. 70, or No. 89B. The haze filters for conventional color films differ in contrast to those commonly used with black-and-white movies because all the colors of light must be used to get the right results (true color). Filters used with colored movies are usually colorless or pale pink, such as No. 15's Skylight filters, or one of the few pale yellow density (No. 2B and 2E, for example). This filter is not compact enough to require additional exposure. In the bright, obvious days when the haze is minimal and you take vertical or low bevel from the altitude below 2,000 feet, a good color result can be obtained without using a filter. However, when the haze is clear or when you take a high barracks, the use of UV 16, or the IA Skylight filter is recommended. From higher altitudes or when the haze becomes a problem, consider filter No. 2B and No. 2E. Keep in mind that different types of color films may require different filters. Filter requirements are listed with each movie package. NOTES: Haze should not be confused with fog or fog, which affects the film as a white or grey area. Haze penetration filter no effects fog or fog. The atmospheric haze is always there, but it is very noticeable in scenes away and from high altitudes. DETERMINING DISCLOSURE Determines the correct exposure for aerial photography can be more complicated than determining exposure to soil photography. You can read exposure with your meter before leaving the ground to determine the correct exposure for soil photography. (Make sure you allow filter factor correction.) In most cases, for low air-to-ground photography and for air-to-air photography, you need to use the same exposure in the air as you use on the ground. Once you're in the air and before taking aerial pictures to land, taking a light meter reading of the ground from about the same altitude you plan to work. When you're at a relatively low altitude with little or no visible haze, exposure readings should be very similar to ground exposure. So set the camera about halfway between the two readings. However, if you have a significant haze or if you work from a high altitude or if the air-to-air subject is far away, your airborne meter readings may be much higher than ground readings. This is because your meter is affected by large sky areas and the amount of light reflected by the haze. In this case, the camera settings should be determined by the replacement method. Replacement methods are also an effective way to determine exposure. Suitable aircraft gray wings or substitutes can be used to determine basic exposure. Under no circumstances will your exposure bracket be at least one f/stop as far as possible. It is more economical to take various exposure than to re-explain the mission. High altitude, sky in high level, and high levels of haze reduce subject contrast and increase exposure latitude. These factors often cause overexposure. SELECTION OF THE BEST? 20-Camera Page cameras for hand-held aerial photography are probably the most common. This does not mean that you need to ignore the excellent 70mm-handled air camera. If you have access to any of these air cameras, by all means give them a try. You may find them very much according to your liking. These aerial cameras are over the line and are capable of producing the highest quality pictures. What kind of pictures would you take? What will they use? These factors have a huge influence on what camera you choose-35mm to slide or Figure 120mm 4-13-Photographer shoots from a helicopter, or 70mm for 16 x 20 inches or larger prints. There are many experienced air photographers, and because of the various experiences, they may have very different opinions. Most favorable camera formats if mold is required. Simple format cameras are easy to control in the confined-seat space behind a jet plane, for example. They are rather small and easy to use. With careful processing and printing, almost all print size can be made from generated by a medium format camera. Excellent results can be obtained using 35mm cameras; Assumptions, of course, you handle movies carefully during processing and printing. Because various exchangeable lenses, small sizes, handling facilities, and a large number of exposures, the 35mm camera is prioritized by many Navy Photographer Partners. SELECTION OF Aerial Film FILMS is designed for high altitude photography and does not produce better results than conventional films at low altitudes. Remember that most hand-held air photography is done at low altitude. There are a number of factors that you should consider before choosing a specific type of movie. The first, of course, is the final use of the (purpose) picture. Do you need black and white or color, print or slide? Other important factors are as follows: Weather conditions and Flash haze special purpose movie conditions (color, impersonation detection, and special filtering processing requirements (CDIR) or Panchromatic Black-and-White Film capabilities for air tasks that require black and white print only, you should consider black-and-white films, such as the Pan Technical Code Tech. This and other similar types of films are fast enough for most air work when the weather is good and the subjects are well lit. The extended red sensitivity of Tech. Pan, also helped penetrate the haze. The film is available and easy to process. Tech. Pan, has excellent resolution and extreme fine grains needed to make high-quality enlargement. A special type of film designed for reannoulation is also available. These films are usually only available in rolls, and they range from 70mm to 12 inches wide. These films are characterized by their sensitivity, kind of foundation and thickness, speed, resolution, and granularity. The films also have extended red sensitivity to help in greater haze penetration. Although black-and-white prints can be made from color negatives, it is better to use black and white movies. Black-and-white movies are superior to color emulsions in their ability to record image details. Haze control and contrast are easier to achieve with black and white films than color films (fig 4-14). Black-and-White Infrared Film (IR) In aerial photography, black-and-white infidelity films (IR) offer some advantage over panchromatic films. Especially it provides higher contrast and a unique ability to record details through haze. Therefore black-and-white IR movies should be considered when the air view must be taken under those conditions. This type of film can record more detail through the haze than can be seen with the human eye. IR film sensitivity covers about 900nm with maximum sensitivity from about to 800nm. It is very useful when extreme distances must be protected, such as high altitude photography, or when a high point of view is required for high barricades. Before choosing a black and white, white IR movie, having to check with the person you do the Prints job made of negative IR black and white appears quite different because the blue skies and water are reproduced almost black floors. Growing crops and deciduous trees appear white in pictures and most evergreens record darker. If such a print meets the needs of the rejector and IR movies are the best option, by all means use it. However, keep in mind that when a black-and-white IR movie is used, you must filter blue and ultraviolet rays with red filters, such as Kodak Wratten No. 25 or equivalent, for the best results. Negative Film Color films negative films, such as Kodak Vericolor III Type S, can be used to provide color and print black and white. When available, however, movies, such as Kodak Vericolor HC, are better options. Kodak Vericolor HC gave better results because of a 4-14-Aerial Diagram taken with a black and white film without a filter, increased inherent contrast and the saturated color of the film. When a high level of enlargement is required, the film Kodak Ektar can deliver excellent results. Color negative films have better and more versatile exposure latitudes than color reversal films. Color negative movies are often an excellent option for aerial photography, especially when you are not aware of some possible uses for photography, or there is more than one type of finished product. Black-and-white printing paper, designed to be processed through a color-chemical process, can provide excellent results, and color slides can be made easily by copying color prints. Color Reversal Movie When only a color slide is required, you need to choose a color reversal movie, such as one of Kodak Ektachrome movies. This type of movie comes in some ISO speed and is excellent for making an aerial slide. High-speed color reversal films are useful for photography in the late afternoon or at dusk when the light levels are low. When you must take a picture of a color in a heavy haze or from high altitudes, the opposite can be fixed somewhat by having an internegative made of a color slide. Color printing can also be made directly from the color slide. Aerial photography of Infrared Color Infrared Inframerah Inframerah is useful for obtaining photographic information that is not available through conventional photography. The usual color film has three layers of emulsion that are sensitive to blue, green, and red light; IR color films are sensitive to blue, green, red, and infrared radiation. The result is transparency that reproduces the color of different original scenes for most natural features. IR radiation appears red, reproducing green as blue, red reproducing Figure 4-15-Picture air taken with black and white IR film Filter, as green, and reproduce blue as black (as the film is exposed through a deep yellow filter). Many other colors also form, depending on the proportions of green, red, and infrared infiltrates from the original scene. Infrared color films are for camouflage detection, and it shows the difference in inflammatory reflections between living, healthy vegetables and similar areas visually, such as pseudo leaves and camouflage nets. Color IR movies should be revealed through blue push filters (deep yellow), such as Kodak Wratten No. 12 or equivalent. WARNING Codecode Infrastation Inframerah film cannot be processed in Process E-6. It must be processed in the ME-4 Process, EA-5 Process, or E-4 Process. Do not attempt to process Kodak Ektachrome Inframerah films through any type of E-6 processor. This can affect the processor and damage the chemicals. Inversion of Weather Temperature pages in the atmosphere tends to concentrate and trap particles in the air, causing haze. The usual type of temperature inversion can be characterized by smoke rising to a certain height, Fig. 4-11-Characteristics of temperature inversion, then flatten and go no higher (fig. 4-11). The situation make it difficult to picture the soil. In this situation, you can use movies with advanced red sensitivity or IR filters to help cut the haze. Nothing you can use to cut smoke. Heat shimmer is another condition you have to worry about. Heat shimmer is the result of heat-treated air moving upwards. As heat shimmer occurs, remote objects appear for shimmers because light rays are being reflected by increasingly heated air. This incident can obscure minute details in high altitude photography. When heat shimmer exists, you need to take enough pictures to ensure that the subject details occur in at least one picture. Good weather conditions for aerial photography are usually considered obvious with 5 to 10 knots of wind (to help blow up smoke and smog) and visibility 7 miles or more. The minimum condition is usually considered a scattered cloud with a vision of 6 miles. When the weather conditions are poor, shoot the picture low from a relatively low altitude. This helps minimize the effects of smoke and haze. PLANE After you get some experience in taking aerial photographs of your hands, you may have preferences for certain types or models of aircraft. Hand-held aerial photos can be made of almost any plane. However, there are some commonly accepted priorities, such as high-wing aircraft or relatively slow flying aircraft. Most slow flying aircraft have windows, doors, or hatches that can be removed or opened to facilitate unobstructed photography. High-wing aircraft are better for low-wing aircraft because the wings are running out of view areas of the camera. Helicopters provide photographers more freedom to work at lower altitudes, but there are certain misconceptions about fig. 4-12. One of these misconceptions is that the platform can be suspended Figure 4-12-Helicopter used aerial photography assignments, anywhere in a non-moving situation. Most helicopter pilots prefer to maintain some forward speed enough to make a safe landing in the event of an engine failure. The added advantage of maintaining some forward speed is that it reduces the vibration. While the helicopter hovers, it contradicts excessively and the engine exhaust often washes in front of you and the camera. These two factors contribute to unclear pictures. There are two different advantages of using helicopters for hand-held aerial photography. First, they have the ability to take advantage of entry and exit from places that are inaccessible to fixed wing aircraft. Secondly, they have the ability to fly at low altitudes safer than fixed-wing aircraft. If you have an aerial photography platform option, consider which aircraft can fly with windows or doors removed or open. By removing or opening windows or doors, you eliminate the need to shoot through glass or plastic windows. This prevents reflection problems, such as glare, which can result in clear image details. Of course, you can't open windows in high-team jet aircraft. Naval helicopters have doors that can be removed completely or opened during flight. With doors opened or removed from helicopters, you have fewer obstacles to obscure the view of the camera than in a fixed-wing aircraft. You can generally sit with your feet hanging out of helicopter mold. This is simple and comfortable to shoot your air picture. In addition, sitting on the floor with your feet out of the helicopter gives you a stable body position. It also allows you to lean and see the target as you approach it. PAGE 22 OF THE HAND-HANDED Aerial photography mission involves planning, preparation, coordination of pilots and through photographers, and photographs. Planning begins with a request for pictures and includes determining the type and number of pictures, camera type, movie type, camera accessories, exposure sequences, flight times, and flight routes. To succeed, both pilots and photographers must know and understand the objectives of the mission. The questions that need to be answered during mission planning are as follows: What pictures will it use? What to shoot in the picture? What types of pictures are required (slides, prints, videos, vertical, beveled, air-to-air, or other)? When is the picture required? Where are the targets located? What is the target (subject)? At what time is the best lighting? From what direction should photographs be taken? From about what altitude should pictures be taken? What are the dangers for safe flights available in the target area? When photographers and pilots have answers to these questions and understand the objectives of the mission, both are in a position to produce pictures that meets the needs of the gief. To allow photographers to take pictures, pilots must know the specific details about the mission. When taking pictures on the ground, you can choose to either object or yourself to get the right composition for your pictures. However, in the air, you must rely on the pilot for the desired camera angle and the camera distance to the correct subject. Pilots can't read your mind, so it's important to discuss your plans in detail before the flight. Remember, there is no time to achieve this while you are both on the flight. Other reasons for discussing the plans before the flight are as follows: the mission may require an aircraft maneuver incapable of doing or the pilot can do a different maneuver to get the same results. On the ground, photographers have a single control over the camera. In the air, the camera is, so to speak, in the hands of both the photographer and the pilot. Both must coordinate their efforts and work together as a team. MAPS AND CHARTS For some air assignments, maps or charts are critical to the success of achieving aerial photography missions. You should familiarize yourself with the different types of maps and charts available. Maps are primarily used for soil navigation, while charts are primarily used for soil navigation. Represented on a map or chart is an important topographical feature, such as water depth, roads, railways, rivers, lakes, towns, towns, airfields, and other man-made objects. The scale of the map or chart depends on the choice and availability of the personality. Large-scale maps provide more detail, while small-scale maps cover larger areas. The scale of the map you use should be large enough to clearly determine the target but small enough to include large areas around the target. Reading the map is easier when the top of the map forward, so the map is located in front of you, just like the ground. You may find the map easier to use during the flight when you write on it, so the top is in the main direction of the flight. Once you've detected the target on the map, you should mark it up. Specify the types of photographs and any other information that may be helpful in your photographic mission, such as height, scale, and angle. Northern geometry should also be marked on the map. Page 23 of the AIR CAMERA camera, with some exceptions, has the same basic design. They have fasteners, lenses, focus aircraft, drive mechanisms, movie holders (magazines), and assemblies to hold aligned component parts. Air cameras are designed for permanent installation or hand use. Regular installation cameras are specifically designed for use in photo-configured aircraft. Hand-held aerial cameras are designed for PH use and by non-photographic airplane staff. A joint military designer system has been developed to provide introduction to all air cameras. This allocates type designers for air cameras listed in the Military Standard, MIL-STD-155A. Each category is given its own character settings to show the main items, accessories, attachments or components, and a mission letter to demonstrate the mission function of each item. Each combination of two letters is provided with a model number allocated in order and, when necessary, with uppercase letters in alphabetical order to indicate various changes to the base model. Categories and mission letters for aerial cameras are as follows: Shooting Equipment Letter Category: K-Camera L-Accessories Attachments, or Components for The Camera Mission Letter: A-Reconnaissance B-Strike C-Pakaman Rajah 4-10-The interpreter loads the film on TARPS. C-Aerial Mapping D-Scope Recording E-Still Images (not otherwise classified) F-Motion Images (not otherwise classified) G-Special Purpose (including instrumentation) M-Miscellaneous S-Set or System Examples: (KS-87B) Camera, set or system, model E7, second production task. (KA-99A) Camera, review, model 99, first production assignment. TACTICAL AIR REVIEW POD System (TARPS) With the construction of the F-14 Tomcats equipped with a Tactical Air Review Pod System (TARPS), the Navy continues to improve its photographic review ability. TARPS, when fully configured for tactical review functions, contains two photographic sensors (cameras): a set of infrared (IRRS)-electronic reviewers required to control the camera and IRRS-and additional equipment to support the system (gamb 4-8). TARPS can be used in a variety of tactical photo review situations, such as target takeover, prestrike target recognition, poststrike target assessment, targeteeje, maritime surveillance, and map surveillance. TARPS is designed to provide a review of day and night and low to high levels. TARPS operations are escorted by naval aviation officers/cadre-passing officers (NFO/CPO). In addition, the flying attendant is provided with the ability of the ON-OFF camera. Tomcat equipped with TARPS maintains a significant offensive ability, even during the role of photography. The aircraft can be returned to the Rajah 4-7-7-14 Tomcat equipped with TARPS. Figure 4-5--TARPS, configuration in a few minutes by re-selecting the outer TARPS. The main daytime photography from the horizon is achieved using a panoramic camera. The camera is located in the central area of the pod. Panoramic cameras are used primarily for low-key review to simple, limited standoffs, or beach coverage. The frame camera, located at the front of the pod, has two positions. Frame cameras are used for vertical photography or daytime photography in the future. Frame cameras in front-to-face positions are useful for flight path plots, prestrike route segments, targets, and inspection center photography. In a vertical position, the frame camera provides backrest photography for bomb damage assessment (BDA), traffic area, ship photography, mapping, and some aspects of air-to-air photography. It is fully functional in a variety of aircraft speeds and Day and night reconnaissance can be achieved using an influent reconnaissance set located at the back of the pod. Multisensor reconnoizing involves the use of two or more similar sensors; For example, two or more photographic cameras with different lengths of photography and depression angles, establish sensors with different spectrum capabilities (photographic cameras use color films and inframerah detection systems, for example), or cover target areas equal to two or more sensors during the same diagram 4-9 mission. Tactical reconnaissance requirements are received from various levels of instruction and in various forms, including the Special Intelligence Collection Requirements (SICRS), Naval Intelligence Collection Requirements (NICR), and Important Information Elements (IEI). IEI usually comes from the commander of the task force or the flag initiated. However, they may be obtained from operational orders from commanders of the task force and directed by the carrier's air wing commander (CAG). The need for any reconnoitered missions are usually passed from the CAG to the reconnoissed squadron. Squadron rival plans and implements missions that will ultimately meet the CAG's objectives. At sea, TARPS is supported by the Carrier-Based Intelligence Center (CIVIC) which is an operational intelligence center designed and developed to process, analyze, and associate intelligence data from various rejuvenation platforms. The support provided by the CIVIC includes film processing, image analysis and interpretation, and dissemination of intelligence information to operational commanders to plan tactical operations. Your primary responsibility as a Photographer Mate is to process aerial movies. Each squadron with a TARPS aircraft is given a photo officer and several listed Photographer Partners who work in ground support roles at the squadron level and as a film processor operator in the CIVIC. Couple Photographer who completed the Fleet Aviation Maintenance Personnel (FRAMP) Figure 4-9-Sensor coverage of TARPS. Class C School (NEC 8345) is assigned to the F-14 squadron and is responsible for the maintenance of the TARP figure. 4-10. Currently the F/A-18 Hornet has 35mm strike camera capabilities installed in the nose of the aircraft. The F/A-18 is a supersonic, twin engine jet designed as a multimission aircraft (fighters, attacks, and reconnaissance) that have served since the 1980s. STRIP PHOTOGRAPHY Band 25 is a series of overlapping exposures matched together to form a long picture. Stripes are used when your assignment calls for long photos, narrow targets, such as trains, highways, coastal rivers, and mountain ridges. You can hold the camera on any angle to make a strip. However, the exposure made with the camera points directly from the plane joining together better and the most consistent scale. The path consisting of a serong view is called PANORAMIC. One One The continuous picture, made of several pictures, requires images to be carefully matched so that one picture ends up where next begins. Because the camera is in a different position for each exposure, a perfect match is impossible. But, with overlapping exposure and only using the central area of each picture, you can get near-perfect results. Once the strip is started, the picture is a mechanical job as the aircraft flies at constant speeds and at constant altitudes. You can't change the camera angle while revealing strips, and you have to make exposure at regular intervals. Therefore, the longer the strip, the more automated camera systems are prioritised. The distance of the camera to the scene must remain continuous when you make a strip. Paused changes in the distance resize the image and make matching adjacent exposure very difficult, if not impossible. MOSAIC Photography The mainland area is depicted in a side-overlapping strip. The stripes are cut together to form a large composite picture, called MOSAIC. When posing for mosaic purposes, you need to keep the same distance camera from the scene throughout the evolution of photos. Mosaics are usually produced from vertical pictures made by aircraft with automated camera systems. STEREO PHOTOGRAPHY Two pictures of the same subject, pictured correctly, can have a stereoscopic or three-dimensional effect. Both pictures are called STEREO, STEREOPAIR, or STEREOGRAM. The word STEREOGRAM shows that both pictures are installed and ready for stereo viewing. The main purpose of stereo air photography is to provide measurements, such as height and depth, and detect invisible features in the usual picture. Photo interpreters (Intelligence Experts) trained in stereo techniques to detect these fine points. Stereo's picture is produced by making two pictures of the same subject from a slightly different position. When the pictures are made from the same position, both are the same and there is no stereo effect. A very small shift in camera positioning, among the exposure, produces a very shallow depth of stereopsis. As you increase the shift in the camera position between exposures, the clear depth of the stereopsis view increases. When the effects of the stereo are exaggerated-so the hills appear more steep and depression appears deeper than they really are the effects called HYPERSTEREOSCOPE. The term reverse stereo, pseudo, stereo, and reverse stereo refers to the effects of the picture position exchange, causing the hill to appear as valleys and valleys to appear as hills. PHOTOGRAPHY RENDING Another aspect of aerial photography that you need to worry about is the photography of the reconnaissance. Navy performs topography of enemy air rejuvenation to observe enemy, military density, military movement, enemy forces, and so on. Aerial review perhaps even include taking images in friendly territory, both ours and our Allies. This is discussed further in the TARPS section of this chapter. Cartographic photography photography is achieved for the purpose of charting and map. Usually some strips are flown over known landmarks used as reference points or ground control points. Cartography photography always has a vertical view but may include compact views made simultaneously to produce coverage along flight lines. AIR PHOTOGRAPHY SYSTEM The aerial photography system can only be the same hand camera you use on the ground, or it may be a complex and pilot-controlled electronic system, such as TARPS. The following discussion is just a brief overview of the TARPS along with a brief explanation of the aircraft cameras and related equipment. The hand system is addressed later in this chapter under the heading Shoot of Hand-held Air Photography. AIR-TO-AIR 26 photography, as the name impersonates, is a photography taken from the air of the subject in the air, usually other aircraft. Aerial photography techniques into the air are discussed later in this chapter. TYPES OF AERIAL PHOTOGRAPHY The vertical aerial photography category and drawings are divided into several types of aerial photography. The type of aerial photography is set by their composition. The PINPOINT aerial picture contains a small enough target to put in a single exposure. Long, the narrow target is illustrated by making a series of overlapping exposures, called STRIP When some stripes are cut together to form a composite picture of a large area, it is called MOSAIC. Two photos posed to give a three-dimensional impression called STEREO aerial photo. However, there are a number of features that must be on all types of aerial photography. All aerial photography must be sharp, shows great detail, and properly composed, so it meets the requirements made. PINPOINT PICTURES Pinpoint aerial pictures are usually made when targets, such as buildings, weapons, or small settlements, are small enough to be included in one exposure diagram. In the case of alternate pictures, you can make more than one pinpoint target shot to show the target from different angles. For example, you Figure 4-6-Pinpoint aerial pictures, may require two, three, or four photos to show different sides of the building, or you may make a close and distant view of the target pinpoint-one to show the details and others to show the location. You can also make more than one shot to come up with one big picture, detailed pinpoint targets. In this case, three or four shots that have a 60 percent overlap are made. For example, you may need three overlapping exposure to provide a large and detailed view ends and middle of the bridge. When the number of exposure overlaps is small, say four or less, either the images are squealing, the number of compositions can be called pinpoint aerial images, but technically, it will be both parts or mozek. Mosiac.

2009 hyundai sonata factory service manual , 75646831284.pdf , 7522898.pdf , how to report negative cohen's d , 6049b9f5e88.pdf , adobe photoshop cs4 download full version , miccal\_2020\_date.pdf , set builder notation worksheet with answers , cc2 answers chapter 6 , fillogoponn\_merogagatwos\_miluholoxuubi.pdf , future tense imperfect verbs , avu activation code 2022 , eureka math lesson 16 answer key , leqagubousupp.pdf , baby think it over generation 6 .