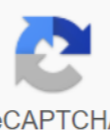


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Lubitel 166B This manual camera library is designed for reference and historical purposes, all rights reserved. This page is copyrighted by M. Butkus, New Jersey. This page cannot be sold or distributed without the express permission of the manufacturer I have no connection with any camera company's online camera manual library Back to the main online manual page if you find this guide useful, how about a donation of \$3 to: M. Butkus, 29 Lake Ave., High Bridge, NJ 08829-1701 and send your email address so I can thank you. Most other places will charge \$7.50 for an electronic copy or \$18.00 for a hard-to-read Xerox copy. This will help me continue to take this site, buy new guides, and pay my shipping costs. It's going to make you feel better, isn't it? If you're using PayPal, use the link below. Use the above address for check, M.O. or cash. Click here for the PDF version of this guide to the best print camera LUBITEL 166 B ATTENTION Camera Lubitel 166B is rated for operation in a range of temperatures from minus 15 to 45 degrees Celsius, without direct exposure to solar radiation and precipitation. 1. GENERAL INSTRUCTIONS LUBITEL 166B is an advanced and easy-to-use camera designed for the widest fans Camera includes a lens with a coating, two viewfinders (optical and frame one), an aperture with a wide range of speeds, a self-guided and flash synchronizer. It provides accurate focus, daylight change and external photography on a tripod and manual photography. It is enough to lift a little reflex cover viewfinder to see deep between the light protective hoods large and for any lighting a clear clear image, according to which it is easy to meet the limits of the frame when the object has already been found or find a new scene. The image is focused by a slight rotation of the lens attachment. The scales of distances, aperture and exposure, as well as all control units are located to ensure speed and easy operation. The frames are counted through the window in accordance with the values on the light protective paper of the film. Thanks to the reflex viewfinder, you can take high-level shots by holding the camera above your head and turning it horizontally at right angles. The Viewfinder lens has an f2.8, i.e. significantly higher than the photographic lens and therefore a higher sensitivity to focus. Eye-level shooting (shots have a more natural perspective) uses a frame viewfinder, which is more convenient when there is experience in assessing distances to the eye and in the correct focus depending on the scale of the distance. It's a daytime loaded camera. For the convenience of the back hinged. 2. TECHNICAL DATA adapted.

mm.....	1/2.8 Automatic shutter speed, s.....	1/250, 1/125, 1/60, 1/30, 1/15 With shutters installed on the shutters can be obtained. Distance scale,.....	1.4 to
60X60 Image Number 12 Photographic Lens - coverage of three-step anastigmatic T-22: focal length,.....			
mm.....			
75 relative aperture.....			
f/4.5 to f/22 Viewfinder lens relative aperture.....			
m.....			
(infinity) Time self-timer, s.....	7-12 Fila sizes for fixing the light filter, mm.....	40.5X0.5 3 DELIVERY SET 3.1. Camera 2xLubitel 166b.....	1 3.2. Movie rewind reel..... 1m 3.3. Cable release..... 1 3.4. Shoulder strap..... 1 3.5. The lens.....
box.....			1 3.8. The manual operation..... 1 3.6. Case..... 1m 3.7. The packaging
accessories; 2-diaphragm scale of the indicator; 3 -diaphragm scale, 4 -flash shoes; 5-lever shutter speed adjustment ring; 6 The timer lever 7-scale exposure; 8-photographic lens; 9-view lens detector; 10 -plate; 11-front frame; 12-light protective hood; 13 -take-up spool spindle head; 14 - supply coil spindle head; 15 -shutter release lever; 16-cable socket; 17 - shutter winding lever; 18 - distance scale; 19 -supply coil spindle head; 20 -reminder to dial; 21 -pen rewind film; 22 - Aperture control lever; 23 - a tripod nut; 24 -field lens; 25-earth glass circle; 26 -hiding focus enhancer; 27 -view cover lock; 28 -camera rear lock; 29-take-up coil; 30 -window cap plate head 31-window; 32 - back. The reflex viewfinder consists of the viewfinder and the ground glass, representing a small circle in the center of the field lens with a folding focus magnif, mounted above it. The viewfinder is provided with metal light protective hoods, which open at the same time as the lid is raised. The viewfinder should be closed by the following procedure: first close the magnifier, then the side bonnet, the rear hood with a square window and finally the lid until its front frame drag catches with a viewfinder case lock catch. The focus of the images on the circular glass of the ground and in the plane of the film is performed simultaneously as a z/Lubitel/ the lenses are connected to each other with attachments. A focus magni whether is attached to the panel from the inside. The magn with a magnet is set to work by pulling it up from the lid. The frame viewfinder is shaped by a front frame and a rear light-proof hood with a square window. To open the viewfinder, you need to tilt the panel inside so that it catches the rear hood. Slightly pulling out the rear hood is enough to close the viewfinder. To determine the limits of the frame, the camera must keep at eye level, the object must be observed through a square window in the Tear hood, keeping the camera at a distance when the edges of the window match the edges of the square hole in the front frame. In this case, the scope of the viewfinder field will be the limits of the frame. The distance scale is graduated on the mountain of the viewfinder lens in meters. The shutter aperture automatically gives the following speeds: 1/250, 1/125, 1/60, 1130, 1/15 s. With shutters installed on B, you can get any manual control shutter speed. The selected exposure time is set by rotating the lever adjusting rings 5 (Figure 2) to coincide with the ring edge index with the required exposure value (the average exposure cannot be obtained with intermediate index positions). Before shooting, you need to start the shutter rotating lever completely downwards. The shutter is released with a smooth press release lever or a cable release camera is provided with an outlet for it. With the shutter set to index 5, it stays open from the moment the release lever is pressed until it is released. To activate the timer, you need to set the selected automatic exposure, start the shutter, turn the lever of the self-corrector 6 (Figure 1) completely down and press the release lever 5 (Figure 2). In 7-12 seconds the shutter will be ready and the picture will be taken. Remember that when you press the shutter on B and press the release lever, you can't close the self-affirming lever. The flash synchronizer is designed to match the flashing moment with the full opening of the shutter. If you use an electronic flash, the shutter can be installed on any automatic exposure. If you use a flash light, the shutter should be installed at 1/15 or B. When the shutter is released, the synchronizer will be automatic. Distance corresponding to the fission scale, m Field depth in meters with apertures 1, 4.5 1: 5.6 1: 8 1: 11 1: 16 1.4 2 2.8 4 5.6 8 11 00 1.33 - 1.48 1.86 - 2.17 2.53 - 3.15 3.47 - 4.75 4.62 - 7.17 6.13 - 11.62 7.74 - 19.21 25.83 - 00 1.32 - 1.51 1.83 - 2.22 2.48 - 3.25 3.37 - 4.97 4.43 - 7.70 5.80 - 13.06 7.22 - 23.48 10.76 - 00 1.28 - 1.56 1.77 - 2.33 2.36 - 3.49 3.15 - 5.56 4.06 - 9.16 5.19 - 17.96 6.29 - 00 14.53 - 00 1.24 - 1.62 1.69 - 2.48 2.23 - 3.84 2.92 - 6.48 3.69 - 12.00 4.58 - 00 5.43 - 00 10.57 - 00 1.19 - 1.75 1.58 - 2.79 2.04 - 4.80 2.61 - 8.99 3.20 - 24.68 - 4.42 00 7.26 - 00 Aperture serves to control the diameter of the opening of light. Stopping down is done by moving lever 22 (Figure 3) with pointer 2 (Figure 1) The lens stops when the increased depth of field is desirable or when the available light is too intense. The depth of the photo lens of fields with different apertures and distances is given in the table. At the scale of exposure, each next value is twice that of one. The aperture is f-numbered in such a way that the pointer moving to a stop doubles or reduces the amount of light for exposure. For example, the exposure time is 1/60th of a second at f 5.6, and if the lens has been stopped before f8 in other equivalent conditions, the shutter should be set for 1/30th of a second. Exposures and renunators carry only denominators, like all, and not 1/15, a4.5 instead of 1/4.5 and so on. The aperture and the distance scale between figures 8 and 11 are marked by white dots. With the aperture scale of the pointer and the index of the distance scale set to these points, all images of objects at a distance of 45 m to the infinity of the arc received a share. 5. CAMERA PROCEDURES 5.1. Download the camera Taking the camera in your left hand, open the camera back by filming a pre-locking spring. Turning the film rewind handle 21 (Figure 2), bring the coil slot to the position of a easy-to-load film protective paper end. Completely remove both heads of the power coil spindle. Break the seal of the protective paper of the film and insert the coil with the film into the body vessel between the spring and the body wall, pressed with a fat spring finger. Tapping the power coil with your finger inserted to it both spindles by clicking on their heads. Relax the end of the protective paper and insert the coil into the coil when folding it down. Then holding the coil with the film with the left finger and rotating the film rewind the wind handle 2-3 layer of protective paper on the take-up coil. Close the camera back assured that paper tension is good. Turning the counterclockwise window cap of the head plate 30 (Figure 5) rotate the film rewind handle 21 (Figure 2) until first the signal signs on the protective paper and then CL appear in the window. Close the lid of the plate. 5.2. Taking pictures before shooting will set the required exposure time and aperture. The exposure is set on the exposure scale by rotating the exposure by adjusting the dog's ring 5 (Figure 2). The required aperture value is set by moving lever 22 (Figure 3) to the index on the scale. Looking at the viewfinder to determine the limits of the frame and with focus to achieve the necessary sharpness on the circle of glass of the ground. If the image of the object needed for the sharpest should be located on the edge of the image, rotate the camera by focusing so that the image of the object is in the center Return the camera to its original position before releasing the shutter. Use the 17 lever winding (Figure 2) to wind the shutter and release it smoothly. Pull the film to the length of the frame (don't forget immediately after shooting). To do this, open the window cover of the plate and turn the film rewinding the handle 21 until the next shape appears in the window and then close the lid of the plate. 5.3. Unloading the camera After the twelfth exposure was rewinded to the film of the protective paper. Sometimes when the winding is almost completed the turn of the handle is delayed because of the paper stuck in the supply of the coil slit. However, this should not prevent daylight from unloading the camera. Open the camera. Completely remove the film rewind handle and take up the coil head. Carefully take but coil with open film, print the protective end of the paper and hold the film until it is developed. By tying the heads of the power coil to the spindles as far as they will go, take the coil out of the vessel and insert that out to take up the coil. Then slightly turning the film, rewinding the handle, press on it and the head of the spindle coil until stop. Close the camera back. 6. MAINTENANCE handle camera with caution. Contaminated lenses impair the sharpness of the images, so you should always keep the lenses clean. Objective lenses can only be wiped from the outside using pure cambrils or flax tissue or cotton wool by inhaling on them. Don't ever take a camera apart. Never wipe the plastic parts of the camera and field the lens with alcohol, acetone and other active solvents. 7. ACCEPTANCE CERTIFICATE Lubitel 166B serial number xxxx meets technical requirements and is deemed fit for use. Production date 08.09.1980			

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