

I'm not robot!

31 Reset You can reset your camera back to the default settings. 1. 2. Select Reset.Select YES and press the OK button to reset your camera. More Reset OK Reset ON OFF OK 1 2 Function Setting Capture mode Time Lapse Time Interval 2 seconds Time Lapse Frame Rate 10 FPS White Balance Mode Auto Image Quality Better Scene Daylight HDR Range Medium Time Stamp ON Low Light Recording ON LED Indicator ON Band Filter None More settings Page 2 32 CS-mount lens The TLC200 Pro comes with an interchangeable CS-Mount lens, so you can change the CS-Mount lens by yourself to fit your shooting needs. Page 3 33 Extensional accessories This extension connector is used for optional Brinno Time Lapse accessories: Shutter Line (ATS110): For creating Stop Motion film and Face Time Lapse video Motion Sensor (ATM110): For motion activated use, turns your time lapse camera into a motion activated camera! Page 4 34 External Power For long term use, you can attach an external power supply (DC 5V) through the Micro USB connector. DC 5V Reference Page 5 35 Micro USB connector A. File transfer You can connect the TLC200 Pro to your computer in order to transfer the time lapse video from the SD card to the computer. OS requirement: Windows XP and above. Page 6 36 Micro USB connector B. Webcam With the TLC200 Pro connected to your computer you can install free webcam software. The TLC200 Pro can then be used as a webcam for your computer! Suggested software: please check on Brinno.com OS requirement: Windows XP and above. Page 7 37 Subject Description Time Interval Playback Frame Rate Daily Life Recording kids, pets all parts of daily life 1~ 30 seconds 10~30 Party Recording family parties, public events, and happy time all around 1~10 seconds 10~30 Traveling Recording your trips, short and long 2 sec~ 1 min 10~30 Plant Recording Flowers growing, or gardening over a period of time 1~30 min 15~30 Construction Recording a building being built or any construction project 30 min~ 1 hr 15~30 Biking Recording a bike ride or trip 1 sec 10~30 Face time Lapse You're the leading character in your time lapse videos Shutter line 5 What setting should I use Page 8 38 Scene Setting What Size SD Card Should I use SD card size Stored photos 4 GB SD Card 30,000 8 GB SD Card 60,000 16 GB SD Card 120,000 32 GB SD Card 240,000 Based on a selected image quality setting of "Good" Daylight Twilight Night Moon Star The longest exposure time (Sec.) 1/15 0.5 1 2 4 The shortest time interval (Sec.) 0.2~ 1 1 2 4 8 Page 9 39 Scene: Twilight mode Time interval Captured frames to battery low Days ASAP 93,690 1 2 SEC 67,400 1.6 5 SEC 55,500 3.2 10 SEC 51,300 5.9 20 SEC 51,000 11.5 30 SEC 45,000 15.0 1 MIN 33,700 23.0 5 MIN 10,900 38.0 10 MIN 5,900 41.0 1 HR 1,060 44.0 4 HR 269 24 HR 45 45.0 Battery Life Scene: Day mode Time interval Captured frames to battery low Days ASAP 168,000 1 1 SEC 200,000 2.3 2 SEC 244,000 5.6 5 SEC 204,000 11.5 10 SEC 145,000 17.0 20 SEC 108,000 25.0 30 SEC 84,500 29.0 1 MIN 51,000 35.0 5 MIN 12,300 42.0 10 MIN 6,300 43.0 1 HR 1070 44.0 4 HR 269 24 HR 45 45.0 1 www.brinno.com HD Video Camera TimeLapse TLC 200 fl. 2 User Manual Need help? Post your question in this forum. Brinno Page 1 TimeLapseHD Video Camera TLC 200 fl. 2 User Manual www.brinno.com Page 2 WELCOME TO BRINNO FAMILY! THE WELCOME TO BRINNO!! Share your awesome TimeLapse videos with other Brinno fans on our facebook page !!! facebook.com/BrinnoInc Brinno TimeLapse Camera TLC200 fl. 2 Page 3 www.brinno.com/support/register.html contact us: customerservice@brinno.com more information: www.brinno.com Page 4 Optional Accessories Weather Resistant Housing (ATH110) Brinno Reader (ABR100) Bike Cam Holder (ABH100) Shutter Line (ATS110) Camera Wall Mount (AWM100) Motion Sensor (ATM100) Fan Lapse (ART100) Pouch (ATP100) 04 Brinno TimeLapse Camera TLC200 fl. 2 www.brinno.com Page 5 Thank you for purchasing a Brinno TimeLapse Camera! The Brinno TimeLapse Camera (TLC200 fl. 2) uses unique Time Lapse and PowerSaving technologies to capture images for days, weeks, or even months. The Brinno TimeLapse Camera TLC200 fl. 2 captures photos and stores them as videos making them easy to view. Turn it on, set the time interval, frame your subject, let it run and you have a time lapse video! No fancy equipment, no intervalometer, no complicated gear setups, no time-controlling, no video-making headaches. If you have any questions or problems setting up your Brinno TimeLapse Camera please contact the sales staff where you purchased our product or email us at brinno Incorporated directly customerservice@brinno.com Please visit our website www.brinno.com Time Lapse Camera TLC200 fl. 2 Features Aperture Large Aperture Wide Angle View Better low light recording and sharper images. 140° Field of View. A wider area to be recorded creating panoramic images. Time Lapse Video Power Saving TLC200 fl. 2 provides you a 1280x720 resolution video, yes, it's HD video. Unique Power Control means 4 AA batteries can capture 270,000 frames. LCD Viewfinder Rotatable Lens The 1.44" LCD screen allows you to easily frame your subject. Provides greater flexibility in targeting your subject! TLC200 fl. 2 Output file format: (Video Mode) Format AVI. Resolution 1280x720, 640x480 Note: The maximum size of each single AVI file ranges between 8,192 to 20,480 frames, depending on the time interval setting. Still Image Mode) Format JPEG. Resolution 1280x720, 640x480 www.brinno.com 05 Page 6 Normal MENU AVI Frame Rate 1 FPS / 5 FPS / 10 FPS / 15 FPS / 20 FPS / 30 FPS Image Quality Set the Time Interval OK START ASAP / 1 Sec / 2 Sec / 3 Sec / 5 Sec / 10 Sec / 20 Sec 30 Sec / 1 Min / 5 Min / 10 Min / 1 Hr / Custom Best / Better / Good Custom Exposure Scene Daylight / Night Timer You can set start and stop time. Set Date & Time Output Resolution 720P / 480 MENU TIME OK START on the screen goes to sleep, press OK to wake up. OK START BAND Filter None / 50 Hz / 60 Hz Firmware Version Media Statistics 06 Brinno TimeLapse Camera TLC200 fl. 2 Subject to change without notice, please refer to brinno.com/support for latest information. Page 7 Package Contents 1 AAA AAAA AA SDD31 TimeLapse Cam (TLC200 fl. 2) 2 4 AA Batteries 3 SD card** SD Card may or may not be included, please check the contents list on the package. Camera Components Front Back 1 2471892103115134 Metal Ring 1 SD Card Cover 9 TIME () Button (for ATM100, ATL045) 10 OK/ START Button 2 Connector for Extension Accessories 5 Battery Door 1 Power Switch (For ATS110, ATM100) 6 Strap Eyelet 1 2 LED Indicator 3 Connector for Micro USB cable 7 LCD Screen 13 Tripod Screw Hole (For extension power supply, DC 5V) 8 MENU () Button www.brinno.com 07 Page 8 Display Icons Set Up screen Normal 14 ASAP 2 OK 2011/08/31 22:58:32 3 Preview screen 56 READY 7 BATTERY EMPTY 8 SD 10 No Card Error Please replace SD card. 10 No Card Please insert SD card. 9 Initial Step 1 Install Batteries and SD Card 12 31 Open battery door. 2 Insert 4 AA batteries. 3 Close battery door. Be sure the battery cover is locked into place. Initial Step 2 Install SD Card 12 31 Open SD card cover. 2 Insert SD card until it clicks into place. 3 Close SD card cover. www.brinno.com 09 Page 10 Initial Step 31 Turning the camera on 20 Normal ASAP SD READING. OK 2011/08/31 22:58:32 1 Rotate the Power switch to ON position. 2 Process screen may display other information on screen, please refer to page 3 3 Set Up screen Now, you can set Date and Time and Time Interval before you use your TimeLapse Camera. Initial Step 4 Set Date and Time 23 MENU Date & Time Set Date & Time 2011/08/31 22:58:32 OK OK. Next 1 Press MENU button. 2 Press TIME () to select Set Date & Time (MENU 7/15), and press OK. 3 At the highlight field, press MENU () to decrease value, press TIME () to increase value, press OK to confirm and go to the next field. When finished, press OK to exit set up. 10 Brinno TimeLapse Camera TLC200 fl. 2 Page 11 Initial Step 51 Set Time Interval TIME 3 TIME 2 Sec 10 Min OK OK Normal 2 Sec OK TIME CUSTOM 22:58:32 OK OK. Next 2011/08/31 22:58:32 1 Press TIME button to enter time interval set up. 2 Press MENU () and TIME () to select a pre-set time interval or customize it by yourself. When complete, press the OK button to confirm and return to the Set up screen. 3 Back to the Set up screen Now, you are ready to go to Preview screen and start recording your Time Lapse Videos. About Power Saving Set up screen Normal ASAP Preview screen 10 sec. Turn off LCD 20 sec. OK 2011/08/31 22:58:32 READY 1 At Set Up Screen After 10 seconds without activity on the set up screen, the camera will go to Preview screen automatically. You can press the MENU or TIME button to go back to the set up screen. 2 At Preview Screen After 30 seconds without activity on the set up or preview screen, the LCD screen will turn off automatically to save power. You can press the OK button to wake up the camera. www.brinno.com 11 Page 12 Start Recording 1 Set up screen 2 Preview screen 3 Recording Turn off LCD Normal ASAP Recording! OK 2011/08/31 22:58:32 1 After selecting the time interval, press OK to proceed to the Preview Screen. 2 On the Preview screen, hold the OK button for 2 seconds to start recording. Preview Screen will show REC at the bottom bar. 3 During the recording period, the LCD panel will turn off to save power. Stop Recording! Preview screen 2 SD Processing READY 1 While recording, hold the OK button until the LCD light turns on and shows the text "Processing", it means the camera is processing the file. When completed the processing it will display the text "Ready". This indicates the recording session is complete. 2 Remove the SD card from the camera, and insert it into your computer or laptop to enjoy your amazing Time Lapse Videos! LED Indicator Green LED light: indicates image capture in progress. When the Green LED flashes, the Time Lapse Camera (TLC200 fl. 2) is capturing photos. Red LED light: Low battery level. Low recording space on your SD card! 12 Brinno TimeLapse Camera TLC200 fl. 2 Page 13 Advanced Menu Setting AVI Playback Frame Rate You can change the video FPS (frames per second) playback with this setting. 12 MENU Frame Rate 1 FPS5 FPS10 FPS OK AVI Frame Rate OK Frame Rate 15 FPS20 FPS30 FPS OK 1 FPS (Frames Per Second) means: 10 frames are played in 1 second. 1 Select AVI Frame Rate. 2 What frame rate should I use? Generally, 10 FPS is suitable for Time Lapse video. 1 FPS: If the video plays at 1 frame per second, the video will not look smooth, and the video length will be longer. 30 FPS: If the video plays at 30 frames per second, the video will look smooth, and the video length will be shorter. Image Quality Set the image quality for your camera. 12 MENU Image Quality OK Quality Best Better Good OK 1 Select Image Quality 2 There are three options you can select: Best, Better, Good www.brinno.com 13 Page 14 Custom Exposure Increase or decrease the exposure. 12 MENU Exposure Exposure Custom Exposure OK 1 Select Custom Exposure 2 press MENU () and TIME () to increase (exposure and press OK to exit.) or decrease () the Time Stamp You can choose if you want to show the time stamp at bottom of your video. 12 MENU Time Stamp Time Stamp OK 1 Select Time Stamp. 2 Select OFF or ON. 14 Brinno TimeLapse Camera TLC200 fl. 2 OFF ON OK Page 15 Low Light Recording You can choose to enable your camera to keep recording video in a low light environment (< 5 Lux). 12 MENU Low Light OFF ON Low Light Recording OK OK 1 Select Low Light Recording. 2 ON: Allows your camera to record video in a low light environment. OFF: Your camera will go to sleep in a low light environment. Scene Select the scene to fit your Photographic needs. 12 MENU Scene Set Daylight Night Scene OK OK 1 Select Scene. 2 There are two options you can select: Daylight, Night. Option Description Daylight Night For any Daytime photography. Special setting for Nighttime photography shooting. Low ISO setting, long exposure time. www.brinno.com 15 Page 16 Timer The Timer will allow you to pre-set a recording period. (eg. 8 am - 5 pm 11) Set the start recording time (A area), then set the stop recording time (B area). The time is set in 15 minutes increments. Press MENU to lower the number, press TIME to increase the number and press OK to next column. Or you may select Cancel to disable Timer setting. e.g. 0600 - 1600 morning to afternoon 0000 - 0001 600 - 2330 afternoon to night AB 2345 - 0500 overnight 22 After setting up the time, go back to the set up screen then press the OK button to move to the preview screen. Hold the OK button for 2 seconds to start recording. The LCD panel will show REC then turn off to save power. The camera will automatically activate at the start recording time you selected. ONCE YOU ACTIVATE TIMER, YOUR TIME LAPSE CAMERA WILL ONLY WORK AT THE TIMER SETTING PERIOD. 16 Brinno TimeLapse Camera TLC200 fl. 2 Page 17 Set Date and Time Set the correct date and time for your camera. 12 MENU Date & Time Set Date & Time 2011/08/31 22:58:32 OK OK. Next 1 Select Set Date & Time. 2 At the highlight field, press MENU () to decrease the value, press TIME () to increase the value, press OK to confirm and go to the next field. When finished, press OK to exit set up. Output Resolution You can change video resolution with this setting. 12 MENU Output Resolution OK Resolution 720 P480 OK 1 Select Output Resolution. 2 There are two options you can select: 720P, 480. www.brinno.com 17 Page 18 LED Display You can choose if the LED indicator will flash while capturing each frame, or not flash at all. 12 MENU LED Display OFF ON LED Display OK OK 1 Select LED Display. 2 OFF: During capture period the LED indicator will not flash. ON: When the camera is capturing a frame, the LED indicator will flash once. Band Filter Select the correct fluorescent lighting frequency to match your indoor lighting frequency. 12 MENU Flicker Set Band Filter OK None 50 Hz 60 Hz OK 1 Select Band Filter. 2 None: For outdoor environment. 50 Hz: Europe 60 Hz: USA 18 Brinno TimeLapse Camera TLC200 fl. 2 Page 19 Firmware Version Display the current firmware version of camera. 12 MENU Firmware Firmware Version XX.XX OK OK 1 Select Firmware Version. 2 Display the firmware version for 30 seconds, or press the OK button to exit. Media Statistics In this mode, the LCD will display the SD card capacity, so you will know how much free space remains on the SD card. 12 MENU Media Statistics OKS 1 Ze = 4 GB Used = 27% Free = 73% OK 1 Select Media Statistics. 2 Display the SD card storage status. www.brinno.com 19 Page 20 Reset You can reset your camera back to the default setting. 12 MENU Reset NO YES RESET OK OK 1 Select Reset. 2 Select YES and press the OK button to reset your camera. Default Settings: Function AVI Frame Rate Image Quality Time Stamp Low Light Recording Scene Output Resolution LED Display Band Filter Time Interval Setting 10 FPS Best On Daylight 1280x720 On None 2 Seconds 20 Brinno TimeLapse Camera TLC200 fl. 2 Page 21 What Size SD card should I use? SD card size Stored photos 4 GB SD Card 30,000 8 GB SD Card 60,000 16 GB SD Card 120,000 32 GB SD Card 240,000 Based on a selected image quality setting of "Good" What Settings Should I Use Subject Description Recording kids, pets all parts of daily life Party Recording family parties, public events, and happy times all around Recording your trips, short traveling and long Time Interval Time Lapse Frame Rate 1~ 30 seconds 10~30 Party Recording family parties, public events, and happy times all around Recording your trips, short traveling and long Time Interval Time Lapse Frame Rate 1~ 30 seconds 10~30 Biking Recording a bike ride or trip 1 sec 10~30 Face time Lapse You're the leading character in your time lapse videos Shutter line 5 What setting should I use Page 8 38 Scene Setting What Size SD Card Should I use SD card size Stored photos 4 GB SD Card 30,000 8 GB SD Card 60,000 16 GB SD Card 120,000 32 GB SD Card 240,000 Based on a selected image quality setting of "Good" What 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