



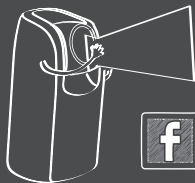
TimeLapse

HD Video Camera

TLC 200

User Manual

www.brinno.com



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Length of battery usage

Time Interval	Capture Frames	Battery Life
ASAP	450000	2.5 Days
1 Second	310000	3.6 Days
5 Seconds	300000	17 Days
10 Seconds	260000	30 Days
20 Seconds	210000	48 Days
30 Seconds	180000	62 Days
1 Minute	120000	83 Days
5 Minutes	34560	120 Days
10 Minutes	17280	
1 Hour	2880	
4 Hours	720	
24 Hours	120	

Thank you for purchasing a Brinno TimeLapse Camera!

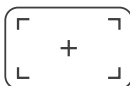
The Brinno TimeLapse Camera (TLC 200) uses unique Time Lapse and Power Saving technologies to capture images for days, weeks, or even months. You can use it to record your Daily Life, Projects, anything that moves, you can record. The Brinno TimeLapse Camera TLC200 captures photos and stores them as 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.

Time Lapse Camera TLC200 Features



Time Lapse Video

TLC200 provides you a 1280x720 resolution video, yes, it's HD video.



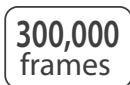
LCD Viewfinder

The 1.44" LCD screen, allows you to frame to your subject easily.



Rotatable Lens

The Rotatable lens allows you to adjust the field of view easily!



Power Saving

TLC200 comes with unique Power control technology, 4 AA batteries can capture 300,000 frames.



Simple Solution

Just turn it on and shoot, the TLC200 will deliver a time lapse video!



Extension Lens*

Unique design allows you to attach optional lenses. **ADD THE NEW ACCESSORIES !!!!**

**Optional accessories.*

TLC200 Output file format

- Video Mode:

Format: AVI.

Resolution: 1280x 720, 640x 480

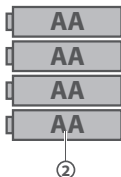
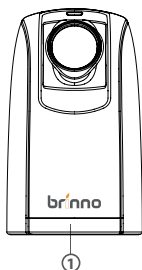
Note: The maximum size of each single AVI file ranges between 8,192 to 20,480 frames, depending on the time interval setting.

- Still Image Mode (**only for using Shutter Line**):

Format: JPEG.

Resolution: 1280x 720, 640x 480

Package Contents



1 TimeLapseCam (TLC200)

2 4 AA Batteries

3 SD card*

* SD Card may or may not be included, please check the contents list on the package.

Parts of the Camera

Front



Back



1 SD Card Cover

2 Connector for Extension
Accessories

(For Shutter Line, Motion sensor)

3 Connector for Micro USB cable

(For extension power supplier, DC 5V)

4 Lens

5 Battery Door

6 Strap Eyelet

7 LCD Screen

8 MENU (◀) Button

9 TIME (▶) Button

10 OK/ START Button

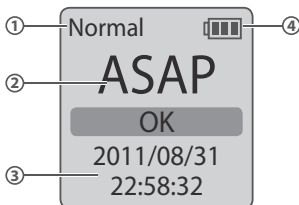
11 Power Switch

12 LED Indicator

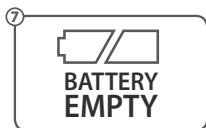
13 Tripod Screw Hole

Display Icons

Set Up screen



Preview screen



At Set Up screen

- 1 Capture mode
Normal: Time Lapse mode
Shutter: Shutter Line mode
Motion: Motion Activated mode
- 2 Time interval
Select the pre-set time interval or customize yourself.
- 3 System date and time
- 4 Battery level

Icon	Description
 (green)	Battery fully charged.
 (yellow)	Battery partially discharged.
 (red)	Low battery. Replace as soon as possible.
 (red)	Out of battery. Replace battery immediately.

At Preview screen

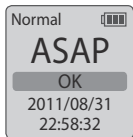
- 5 Video/ Image resolution
- 6 Preview image capture window

Status icon

- 7 Battery Empty
Please replace battery immediately.
- 8 SD Card Full
Please download files to clear SD card space.
- 9 SD Card Error
Please replace SD card.
- 10 No Card
Please Insert SD card.

About Power Saving

Set up screen



10 sec.

Preview screen



20 sec.

Turn off LCD



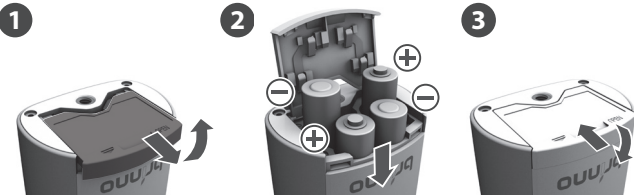
1 At Set Up Screen

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 **20** 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 camera.

Initial Step-1 Install Batteries and SD Card



1 Open battery door.

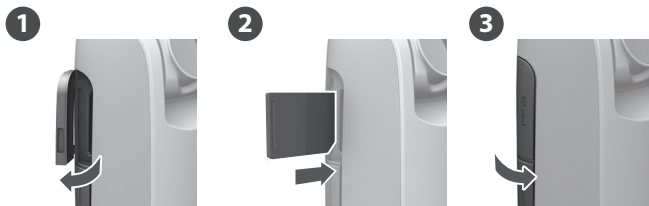
2 Insert 4 AA batteries.

3 Close battery door.

 Be sure the battery cover is locked into place.

Initial Step-2

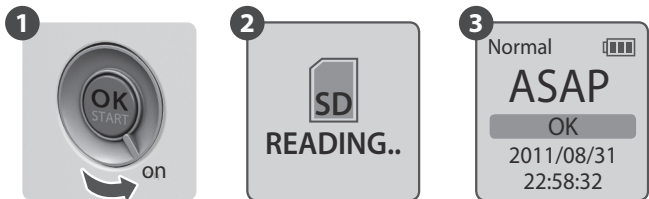
Install SD Card



- 1 Open SD card cover.
- 2 Insert SD card until it clicks into place.
- 3 Close SD card cover.

Initial Step-3

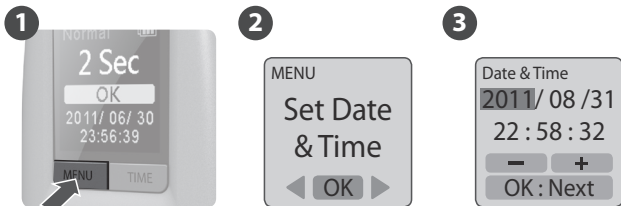
Turning the Camera on



- 1 Rotate the **Power** switch to **ON** position.
- 2 Process screen
⚠ It 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

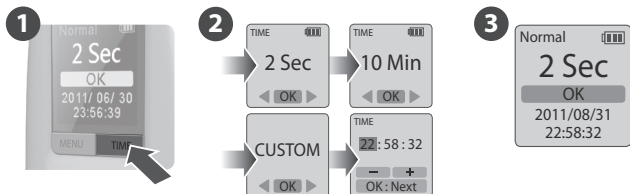
Set Date and Time



- 1 Press **MENU** button.
- 2 Press **TIME** (▶) to select **Set Date & Time (MENU 5/10)**, 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.

Initial Step-5

Set Time Interval



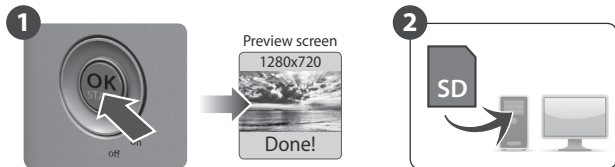
- 1 Press **TIME** button to enter time interval set up.
- 2 Press **MENU** (◀) and **TIME** (▶) to select a pre-set time interval or customize it by yourself. When complete, press the OK Button to confirm and return to the Set up screen. (ASAP option: everysecond can capture 2 photos)
- 3 Now you are back to the Set up screen
Now, you are ready to go to Preview screen and start recording your Time Lapse Videos.

Start Recording



- 1 Turn on TLC200, set time interval and press OK to **Preview Screen**.
- 2 Adjust lens angle to frame subject.
- 3 At Preview screen, press OK button to start recording, during recording period the LCD panel will turn off to save power.

Stop Recording



- 1 While recording, hold the **OK** button until the LCD lights on and shows the **Preview Screen**, it will display text "**Done!**". This indicates the recording session is over .
- 2 Remove the SD card from the camera, and plug it into your computer or notebook to enjoy your amazing Time Lapse Videos!

LED Indicator



Green LED light: indicates Image capture in process
When the Green LED flashes, the Time Lapse Camera (TLC200) is capturing photos.

Red LED light: Low battery level, Low recording space on your SD card

AVI Playback Frame Rate

You can change the videos FPS (frames per second) playback with this setting.

1

MENU

AVI Frame Rate

◀ OK ▶

2

Frame Rate

10 FPS

◀ OK ▶

10 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, use 10 FPS is suitable for Time Lapse video.

1 FPS: The video plays 1 frame per second, so the video will look not smooth, and the video length will be longer.

30 FPS: The video plays 30 frames per second, so the video will look smooth, and the video length will be shorter.

Image Quality

Set the image quality for your camera.

1

Image Quality

Best

◀ OK ▶

2

Image Quality

Better

◀ OK ▶

3

Image Quality

Good

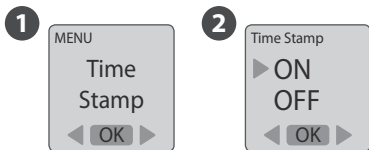
◀ OK ▶

1 Select **Image Quality**

2 There are three options you can select: **Best, Better, Good**

Time Stamp

You can choose if you want to show the time stamp at bottom of your video.

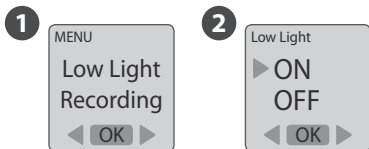


1 Select **Time Stamp**.

2 Select ON or OFF.

Low Light Recording

You can choose to enable your camera to keep recording video in a low light environment (< 5 Lux).

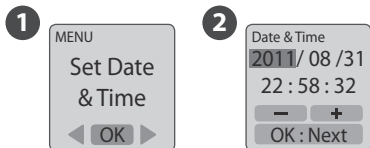


1 Select **Low Light Recording**.

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.

Set Date and Time

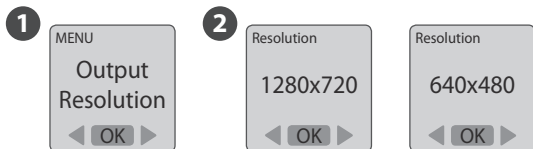
Set the correct date and time for your camera.



- 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

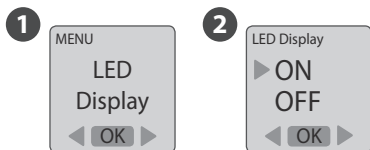
You can change video resolution with this setting.



- 1 Select **Output Resolution**.
- 2 There are two options you can select: **1280x720**, **640x480**.

LED Display

You can choose if the LED indicator will flash while capturing each frame, or not flash at all.



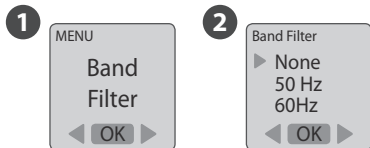
1 Select **LED Display**.

2 **ON:** When the camera is capturing a frame, the LED indicator will flash once.

OFF: During capture period the LED indicator will not flash .

Band Filter

Select the correct fluorescent lighting frequency to match your indoor lighting frequency.



1 Select **Band Filter**.

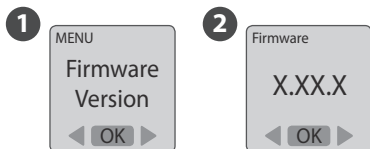
2 **None:** For outdoor environment.

50 Hz: USA

60 Hz: Europe

Firmware Version

Display the current firmware version of camera.



1 Select **Firmware Version**.

2 Display the firmware version for 30 seconds, or press the OK button to exit.

Reset

You can reset your camera back to the default setting.



■ Select **Reset**.

■ Select **YES** and press the OK button to reset your camera.

Default Settings:

Function	Setting
AVI Frame Rate	10 FPS
Image Quality	Better
Time Stamp	ON
Low Light Recording	ON
Output Resolution	1280x720
LED Display	ON
Band Filter	None
Time Interval	2 Seconds



Accessories

Time Lapse Camera

Accessories Wide-Angle Lens (ATL045)

MAGNET MOUNT CONVERSION LENS -0.45 WIDE-ANGLE-



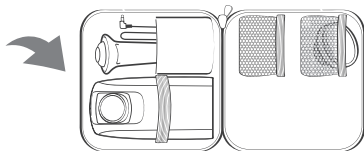
Enlarge your vision with Wide-Angle Lens!

Capture the changes of magnificent scenery, and discover the city in a different way. You will capture an entirely new scene when you add the wide angle lens!

Accessories Camera Pouch (ATP100)



Easy way to secure your Time Lapse Camera and accessories.



SHUTTER LINE for Time Lapse Camera



EASY to CREAT STOP MOTION VIDEO!

In the past, in order to create stop motion video, you will need Hi-end equipment and lots of time to edit thousands photos.

But now, the Brinno TLC200 and shutter line will help you save time and make it easy to make a stop motion video!



Accessories Motion Sensor (ATM100)



Motion Detected

- **Waterproof:** IP54
- **Detect Angle:** 90°
- **Detect Distance:** 4 meters



Perfect for HOME & PROPERTY SECURITY!

Adding the Motion Sensor (ATM100) to Time Lapse camera (TLC200), will allow the camera to detect any movement and wake up and take pictures automatically. It can take thousands of photos and convert them into a video, making them easy to review.

Accessories Weather Resistant Housing (ATH100)

For Outdoor Use

- **Waterproof:** IP54



Whether it is Natures Beauty, Plant Growth or a Construction Project

The Weather Resistant Housing (ATH100) allows the Time Lapse Camera (TLC200) to function safely outdoors in any weather. Your Time Lapse Camera (TLC200) will be protected against severe weather, so you can keep recording images in any season or location.

Specifications

Model	TLC 200
Output format	- Video Mode Format: AVI. Resolution: 1280x720, 640x480 - Still Image Mode (only for use with the Shutter Line) Format: JPEG. Resolution: 1280x720, 640x480
Field of View	59°
Focal Length	36 mm (35mm equivalent)
Focus Distance	75 cm (Minimum)
Time Interval	from 1 sec to 24 hours
Memory Storage	SD Card (Up to 32GB supported)
LCD Screen	1.44" TFT LCD
Power Supply	DC IN: 5V (Micro USB connector) Battery: 4 AA Batteries
Size (DxWxH)	64x 46x 106 mm
Weight	120 g(without batteries)

Package Contents

TimeLapse Camera (TLC200)	1	User Manual	1
AA Battery	4		
4GB SD card*.....	1		

* SD Card may or may not be included, please check the contents list on the package.

Thank you for purchasing a Brinno TimeLapse Camera!

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

