Time Lapse Camera

TLC120

EN Quick Start Guide

brinno

brilliant innovation

1. Install Brinno Camera App on Smartphone

Brinno Camera

Download on the App Store

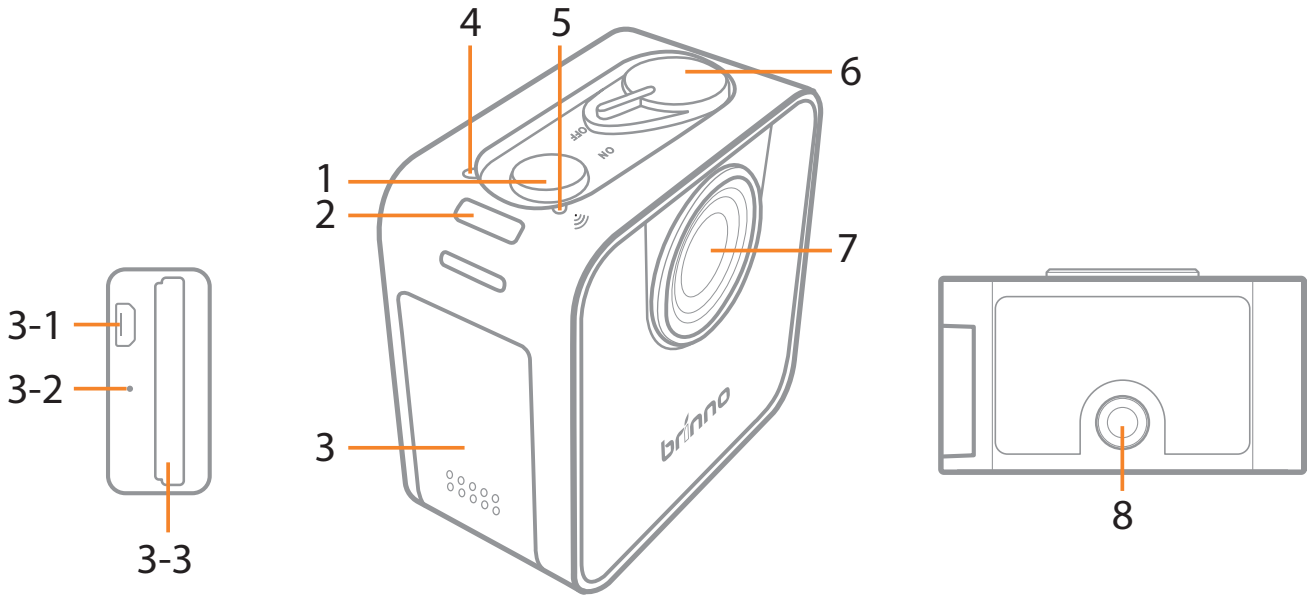
ANDROID APP ON Google play

Smartphone OS :
Android 4.4 , iOS 7.0 or above.

Camera Wi-Fi and BLE SSID# is required when connecting the camera to smartphone. The infomation is on a sticker inside the device package.

SSID:
TLC120-XXXXXX

2. Camera Parts



1. Shutter Button
2. Strap Eyelet
3. Memory Card Cover
   3-1. Micro USB Socket
   3-2. Camera Reset Button
   3-3. SD Card Slot
4. LED Status Indicator*1
5. Wi-Fi / Bluetooth Lamp*2
6. Power ON/OFF Switch
7. Lens
8. Tripod Mount (size: 1/4")

*1 LED Status Indicator:

Red(Alert):
- Battery Low
- SD Card Error

Green(Recording):
- Recording in progress: Light flashes
- Standby: Press "**OK**" button. Light flashes one time.

*2 Wi-Fi / Bluetooth Lamp:

- Connecting: Blue light flashes
- Wi-Fi/BLE Connected: Blue light turns solid

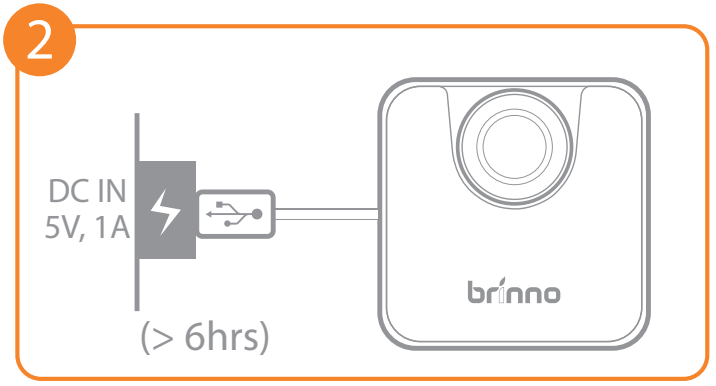
3. Charge Camera Battery

1. Insert SD Card.
   (Up to 32 GB)

2. Fully charge the battery.

* First time charging requires 6 hours.

* LED indicator:
  Orange:
  Battery charging.
  Green:
  Battery fully charged.



Before battery charging, make sure the SD card is installed and camera power is off.

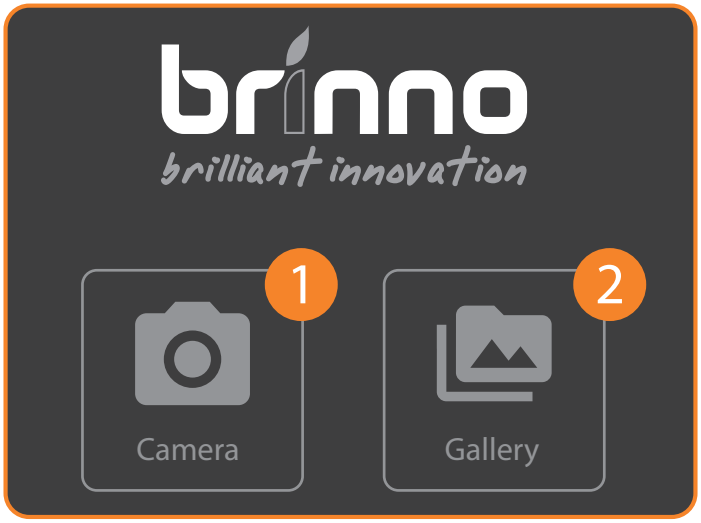
4. Two-step Connection

1. Control and operation: through Bluetooth connection (Remains connected)
2. Preview and download videos: through Wi-Fi connection (Disconnected during recording)

Open App to turn on Bluetooth before access Wi-Fi connection (Details in Sections 5 & 6).

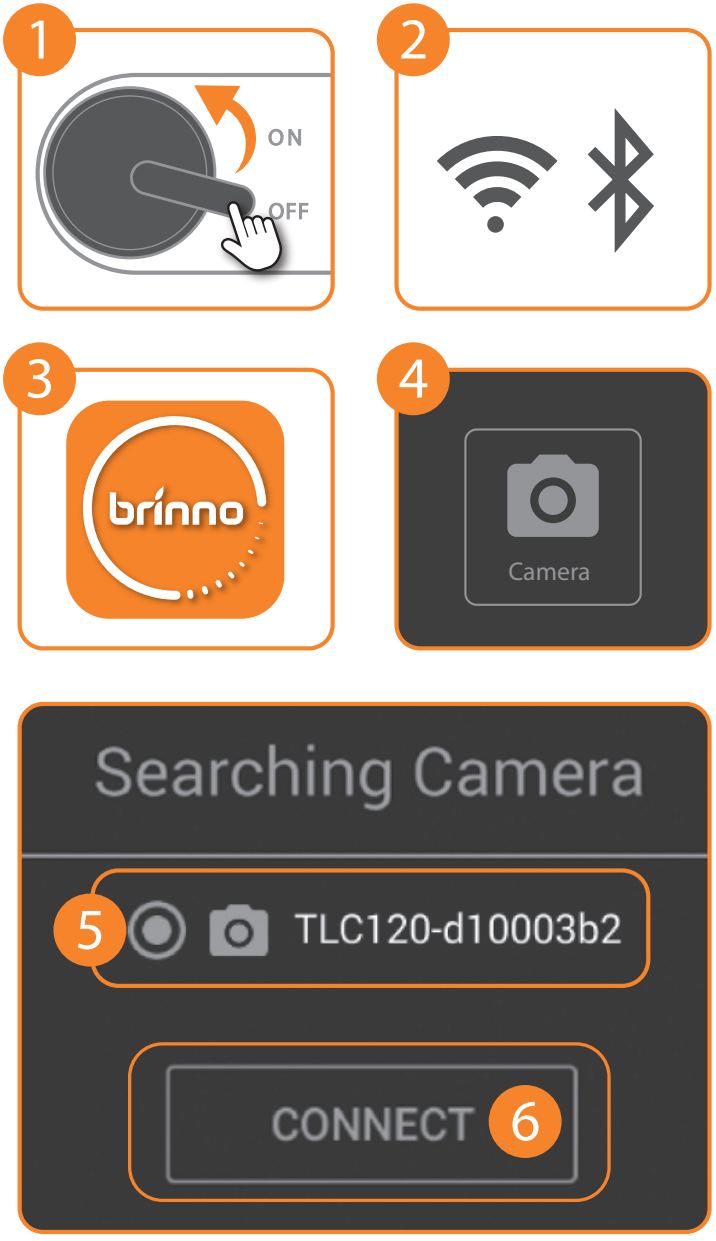
5. Brinno Camera App

1. Camera:
   Connect your smartphone to Brinno camera.
2. Gallery:
   Download time lapse video in app for replay.



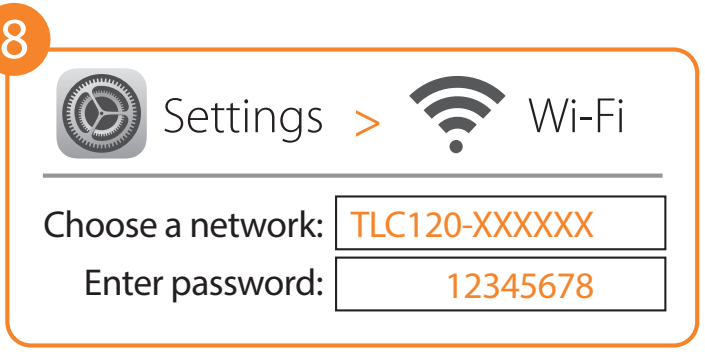
6. Connect to Smartphone

1. Turn on camera.
2. Turn on Bluetooth and Wi-Fi on smartphone.
3. Open Brinno Camera App.
4. Press "**CAMERA**" Button.
5. Select the camera's SSID: TLC120-XXXXXX
6. Press "**CONNECT**"



7. After Bluetooth is connected. Preview screen shows "**Wi-Fi AP Mode Error**" message. Proceed to connect camera Wi-Fi.

8. Go to Phone Settings -> Wi-Fi -> Select: TLC120-XXXXXX -> Password: 12345678 (Password is required for first time connection.)



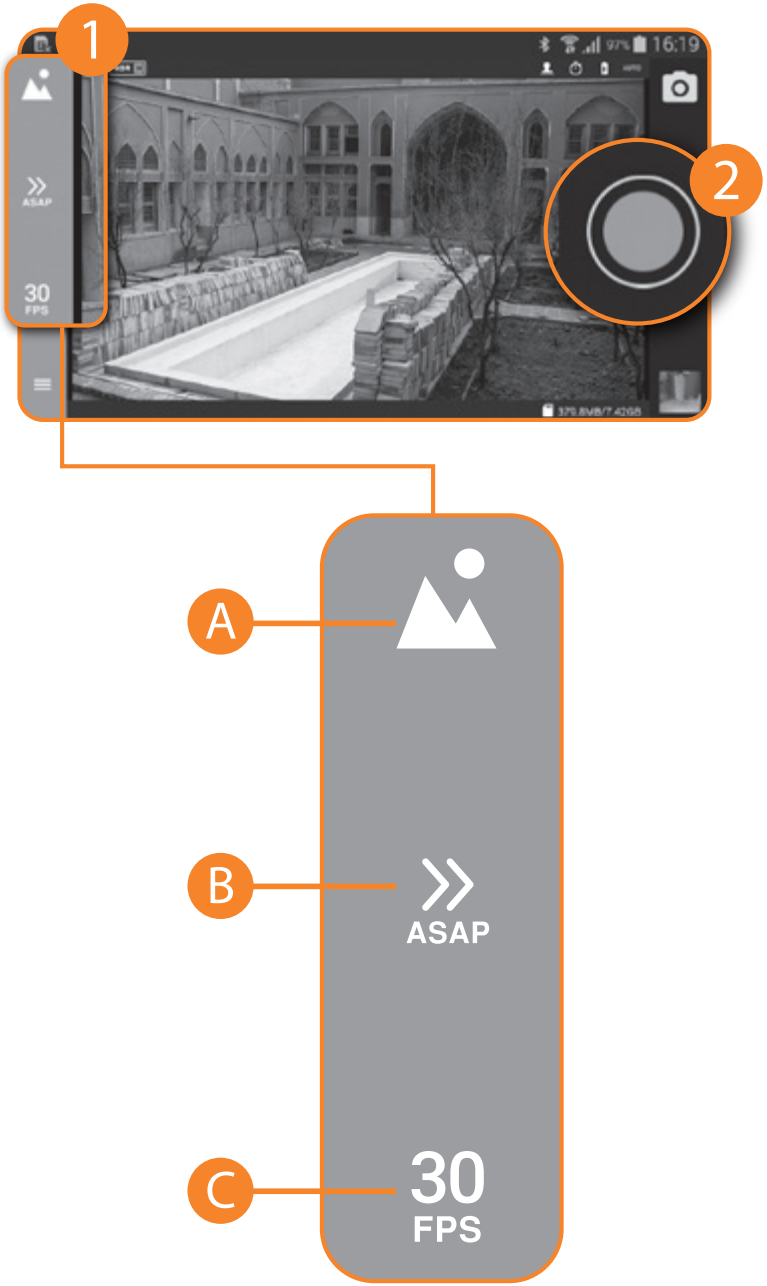
9. Once Wi-Fi is connected, go back to Brinno Camera App, press "**REFRESH**".

10. Now you see **PREVIEW** screen in the app.

7. Record Time Lapse Video

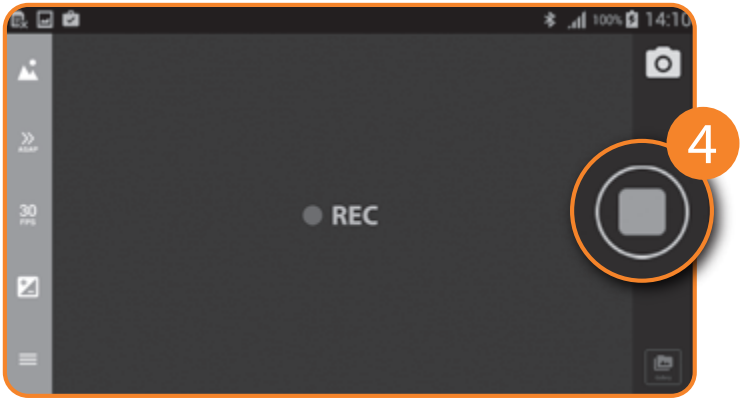
1. When camera is successfully connected to smartphone, change capture settings: Scene, Time interval (Capture rate), Playback rate. Recommend settings for first time user:
   A. Scene: Night (It suits shootings for both day and night.)
   B. Time interval: 5 secs
   C. Playback rate: 20FPS

2. Press "**SHUTTER BUTTON**" to record.



3. After the countdown, the screen shows a flashing "**REC**" icon. Exit app.

4. Press "**STOP**" button to stop recording.



When camera is recording, Wi-Fi is automatically turned off to save power.

5. Camera auto processes time lapse video.

6. When video is processed, press "**OK**" to go back to **PREVIEW** screen.

Reconnect to Your Smartphone

For power saving purpose, camera disconnects Wi-Fi when video recording. To re-enable camera preview or replay time lapse video, you MUST RECONNECT TO camera's Wi-Fi after you are done with recording.

8. Replay Time Lapse Video

1. Reconnect camera Wi-Fi to see image in the **PREVIEW** screen. (pages 6-7, steps 8-10)

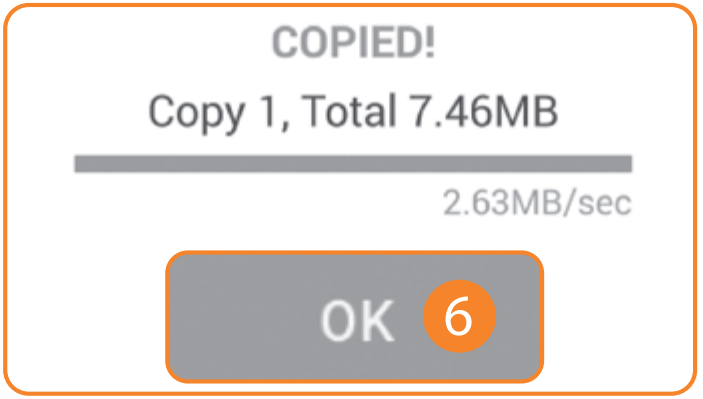
2. When camera is successfully connected to a smartphone, select "**GALLERY**" icon.

3. At "**GALLERY**" screen, choose category icon on the right bar:
   A. "**CAMERA**" icon: Files in the Camera.
   B. "**FOLDER**" icon: Files in the App.
   C. "**BACK**" icon: Return to **PREVIEW** screen.

4. Select one or more files.

5. Press "**COPY**" to download videos to smartphone.

6. When file transmission is done, press "**OK**".



It takes longer when multiple video files are transferred at one time.

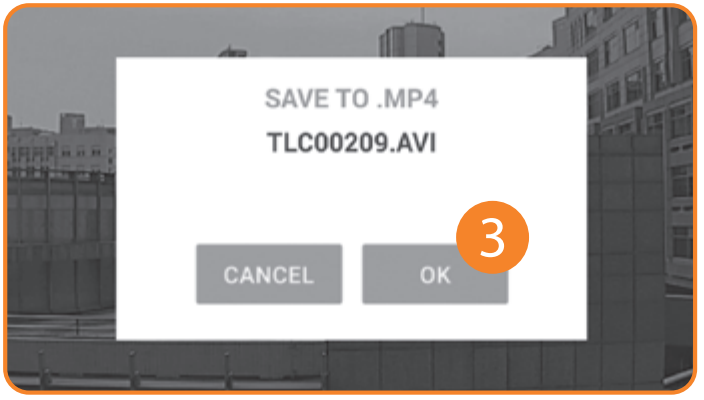
7. Select "**GALLERY**" icon.

8. Select video.

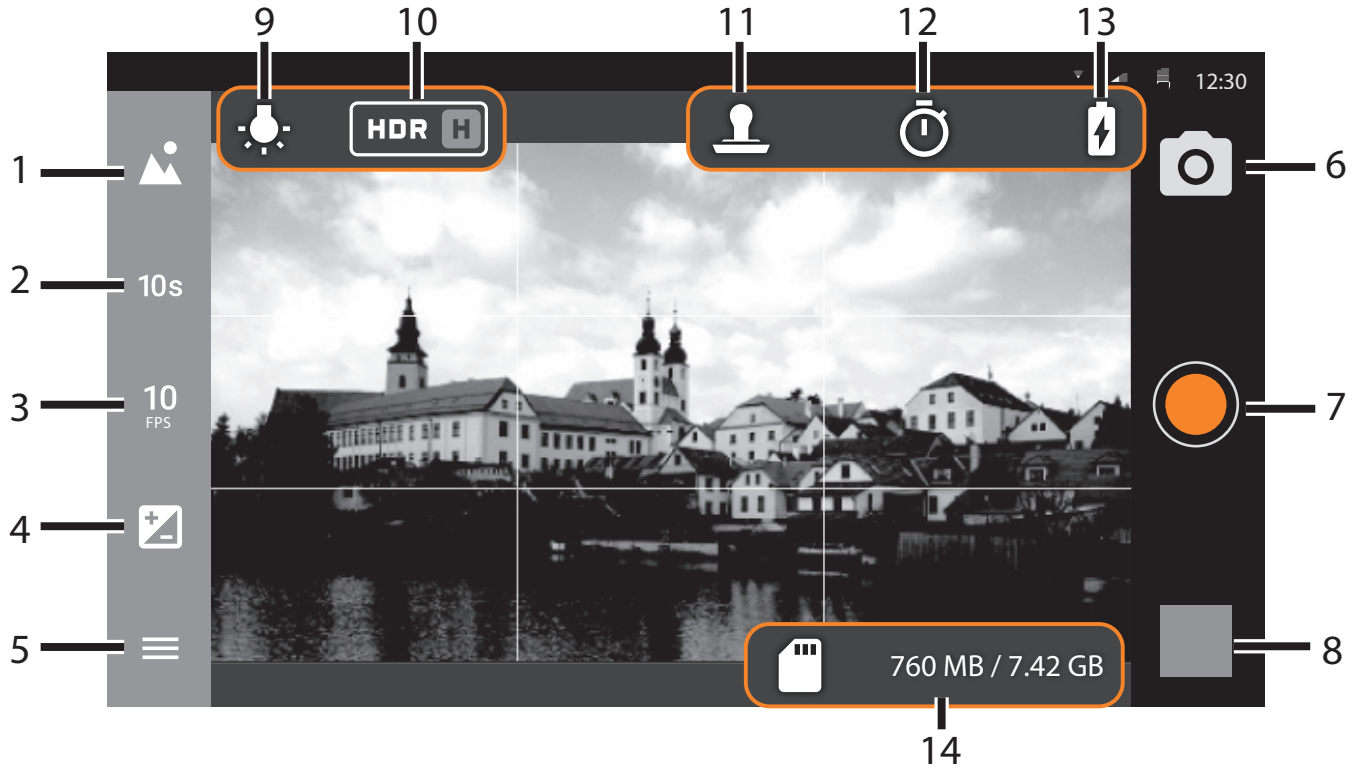
9. Press "**PLAY**" button
   to replay video.

9. Save Time Lapse Video to Smartphone

1. At **Video Playback** screen.
2. Click "**SAVE TO PHONE**" icon.
3. Press "**OK**" to convert video into MP4 format and save it to your smartphone.
4. Your time lapse video in MP4 format is successfully stored in smartphone photo album.



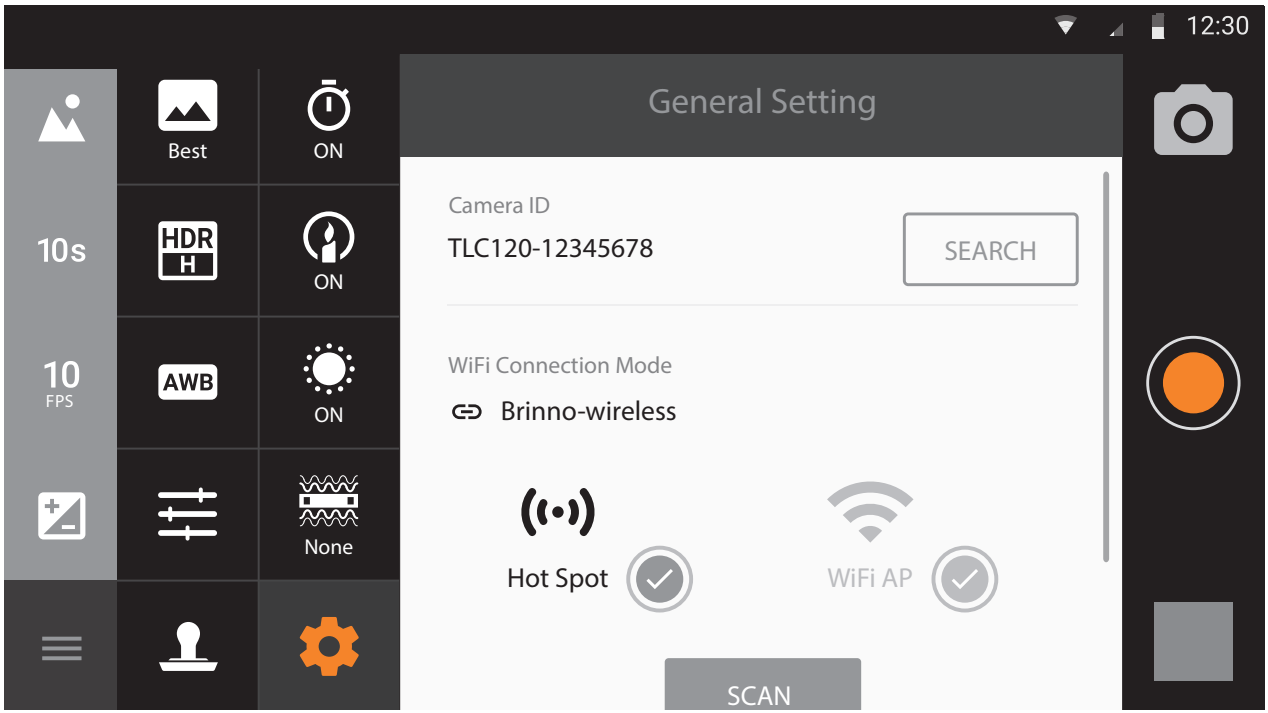
10. App Interface: Preview Screen



1. Scene Setting
2. Time Interval Setting
3. Playback Rate
4. Exposure Value (EV)
5. Camera Setting
6. Photo Shooting
7. Shutter (Start/ Stop Recording)
8. Gallery (Replay Videos)
9. White Balance
10. HDR Range
11. Time Stamp On
12. Timer On
13. Battery Status
14. Storage Status

When PREVIEW is not working in a weak or no Wi-Fi environment, control camera through Bluetooth connection.

11. App Interface: Camera Setting Screen



Best Image Quality

ON Timer

HDR H HDR Range

ON Low Light Recording

AWB White Balance

ON LED Indicator

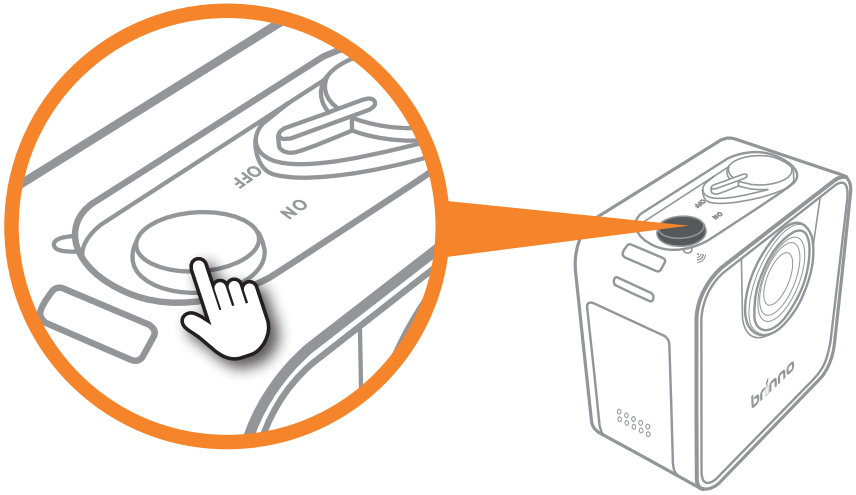
Custom Image

None Band Filter

Time Stamp

General Settings

12. Tips: Camera Operation Mode
(Start & Stop recording without App)



Start Recording

Hold "**SHUTTER BUTTON**" for 0.5 sec to trigger recording. The solid green LED light starts flashing one time. When recording, the green light keeps on flashing in tandem with the photo-taking interval set by camera.

Stop Recording

Hold "**SHUTTER BUTTON**" for 2 secs. The green LED light stops flashing and turns solid. Camera stops recording.

You can shoot time lapse video under camera operation mode alone, applying the previous/last recording settings without using camera app.

For more tips,
please visit Brinno blog:

http://bit.ly/2se3Rji

For more information,
please visit Brinno website:

www.brinno.com/tlc120

Note

FCC
FEDERAL COMMUNICATIONS COMMISSION INTERFERENCE STATEMENT
This equipment has been tested and found to comply with the limit s for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
-- Reorient or relocate the receiving antenna.
-- Increase the separation between the equipment and receiver.
-- Connect the equipment into an outlet on a circuit dierent from that to which the receiver is connected.
-- Consult the dealer or an experienced radio/TV technician for help.

CAUTION:
Any changes or modications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.
This device complies with part 15 of the FCC Rules.

Operation is subject to the following two conditions:
(1) This device may not cause harmful interference, and
(2) this device must accept any interference received, including interference that may cause undesired operation.

FCC RF Radiation Exposure Statement:

1. This Transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.
2. This equipment complies with FCC RF radiation exposure limits set forth for an uncontrolled environment.

This equipment should be installed and operated with a minimum distance of 20 centimeters between the radiator and your body.

BSMI 有電池產品

CAUTION

RISK OF EXPLOSION IF BATTERY IS REPLACED BY AN INCORRECT TYPE.
DISPOSE OF USED BATTERIES ACCORDING TO THE INSTRUCTIONS

警告

本電池如果更換不正確會有爆炸的危險，請依製造商說明書處理使用過後之電池。

NCC LP0002

低功率電波輻射性電機管理辦法

第十二條 經型式認證合格之低功率射頻電機，非經許可，公司、商號或使用者均不得擅自變更頻率、加大功率或變更原設計之特性及功能。

第十四條 低功率射頻電機之使用不得影響飛航安全及干擾合法通信；經發現有干擾現象時，應改善至無干擾時方得繼續使用。前項合法通信，指依電信法規定作業之無線電通信。低功率射頻電機須忍受合法通信或工業、科學及醫療用電波輻射性電機設備之干擾。

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