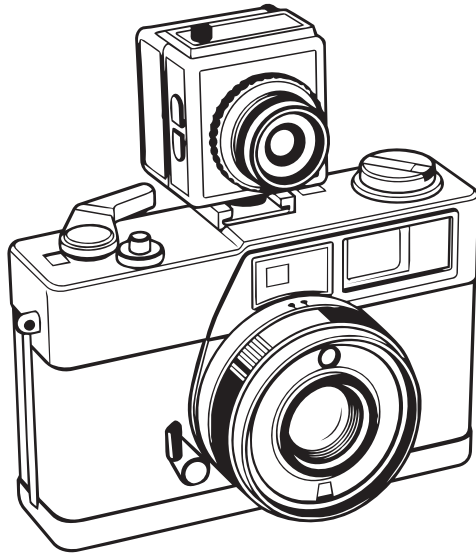


escudo



L I G A R TM

Harmonize Your Vision
Blend Film and Digital Creativity

User's Guides/Safety Precautions

Notes on Camera Disposal

This camera contains a built-in lithium-ion battery. To protect the environment and avoid personal injury, please follow these disposal guidelines carefully:

Do Not Attempt to Remove the Battery:

CAUTION: Do not attempt to remove the built-in lithium-ion battery yourself. Doing so may cause damage to the device or result in personal injury.

Follow Local Regulations:

Always dispose of the camera in accordance with your local environmental laws and municipal waste guidelines.

Regional Support:

- Refer to the supplied CONTACT INFORMATION sheet for specific disposal advice in your country.
- If your country or region is not listed on the sheet, please contact your local authorized distributor for guidance.

Disposal of Electrical & Electronic Equipment

(Applicable in the European Union and other European countries with separate collection systems)



This symbol on the product, in the manual, on the warranty, or on the packaging indicates that the device and its batteries must not be treated as standard household waste.

Correct Disposal Procedure

- Designated Collection Points: This product must be handed over to an applicable collection point designated for the recycling of electrical and electronic equipment.
- Environmental Impact: By ensuring this product is disposed of correctly, you help prevent potential negative consequences to the environment and human health that could arise from improper waste handling.
- Resource Conservation: Recycling materials directly helps conserve natural resources.

Contact for Detailed Information

For more detailed information about recycling this camera, please contact:

1. Your local city office or municipal authority.
2. Your local household waste disposal service.
3. The retail shop where you originally purchased the product.

For Countries Outside the European Union

If you wish to discard this product outside of the EU, please contact your local authorities to inquire about the correct and legal method of disposal.

Before Use

Before using the camera, check you have the following.

- 1 x LIGAR Camera
- 1 x Camera Pouch
- 1 x USB Type-C Cable (for Data transfer and Charging)
- 1 x Camera Strap
- 1 x CPL Filter
- 1 x 0.45x Wide Angle Lens
(Equivalence to 28mm Lens of 135 Camera)
- 1 x Macro Lens
- 1 x Tripod
- 1 x Hot shoe Mount

- Use the strap over your shoulder, not around your neck.
- The battery has not been fully charged at the factory, be sure to charge the battery before using the camera.
(Approximately 1 to 2.5 hours using the supplied USB Type-C cable.
Charging duration may vary depending on the power source.)

Preparing a Memory Card

To store your photos and videos, you will need to insert a compatible memory card.

Card Type	MicroSD Card
Capacity	4GB to 128GB
Speed Class	Class 4 to Class 10

Important Notes

Auto-Shutdown: Automatically powers down within 1 minute of inactivity when a memory card is not detected.

Charging Your Camera

Please fully charge your LIGAR camera using the supplied USB Type-C cable before its first use.

Charging Time:

Charging times vary depending on the power source, but a full charge typically takes between 1 to 2.5 hours.

LED Status Indicators:

Solid Red Charging in progress.
LED Off Fully charged.

Battery Life

On a single full charge, the camera's battery provides approximately:

Photo	350 Photos
Video	75 Minutes of continuous video recording

Video Recording Note

To ensure data safety and prevent file corruption or data loss, continuous video recording will automatically split and save into individual 5-minute video files.

Note: Actual battery performance may vary depending on settings, usage patterns, and environmental conditions

Data Storage Capacity Reference

The tables below provide an estimate of how many photos or how many hours of video can be stored depending on the capacity of your MicroSD card.

Photo Storage Capacity

Card Size	Estimated Number of Photos
4 GB	500 – 600 photos
8 GB	1,000 – 1,200 photos
16 GB	2,000 – 2,500 photos
32 GB	4,000 – 5,000 photos
64 GB	8,500 – 10,000 photos
128GB	17,000 – 20,000 photos

Video Storage Capacity

Card Size	Total Recording Time
4 GB	~35 minutes
8 GB	~1 hour 10 minutes
16 GB	~2 hours 20 minutes
32 GB	~4 hours 40 minutes
64 GB	~9 hours 20 minutes
128 GB	~18 hours 45 minutes

Date & Time Setup

LIGAR automatically creates a **SetTime.txt** file on your memory card upon insertion. To configure the time settings, open this file on a computer using a text editor and modify the values to reflect your current time. Please maintain the required format: **YYYY/MM/DD HH:MM**. Save the file, reinsert the memory card into LIGAR, and turn the camera ON to automatically synchronize the date and time.

Smartphone & Computer Connection

Connect LIGAR directly to your computer or smartphone using the supplied USB Type-C cable to view your saved photos and videos. All media files are stored in the **DCIM/100MEDIA** folder. Please note that operation details and file pathways vary depending on your device's operating system; refer to your device's user manual for further information.

Display Icons & Status Indicators

Memory Card Status

Memory Card Detected	Memory Card Not Detected
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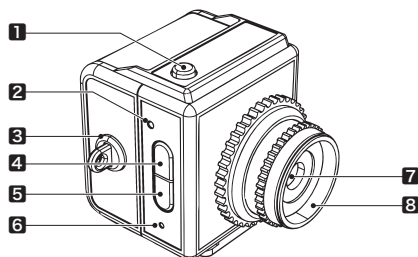
Battery Level Status

Battery 30~70% Capacity	Battery 70~100% Capacity
Battery 10~30% (Charging Suggested)	Low Battery (Charging Required)

Camera Mode

Photo Mode	Video Mode
Light Meter Mode	Preview Mode

Front



1 Shutter Button

Press to capture photos or start/stop video recording.

2 LED Light Indicator

Shows charging and operational status.

3 Camera Strap Hook (Right)

Secure attachment point for the camera strap.

4 Function Button - UP

Navigate menus up or adjust specific shooting settings.

5 Function Button - DOWN

Navigate menus down or adjust specific shooting settings.

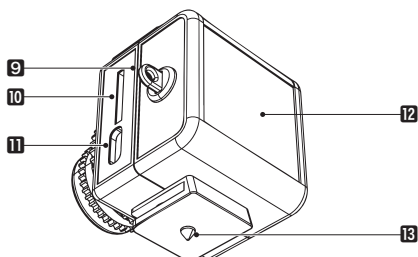
6 Reset Button*

Press to hard-reset the camera if the system becomes unresponsive.

7 Lens

High-quality optical lens for shooting.

Back



8 17mm Filter Thread

Allows you to attach compatible 17mm lens filters or accessories.

9 Camera Strap Hook (Left)

Secure attachment point for the camera strap.

10 Memory Card Slot

Insert your microSD card here.

11 USB-C Socket

Connect the provided USB-C cable for charging and data transfer.

12 LED Screen

Displays the live viewfinder, menus, and playback.

13 Hot-shoe Connector

Used for connecting film camera.

* If the camera is not working properly, press the reset button to reset it.

About LIGAR

Main Features

- **Innovative Hybrid Design:** Seamlessly bridges analog and digital photography by integrating directly with your traditional film camera.
- **Dual-Format Synchronized Capture:** Connects via a standard hot-shoe interface to capture both a film photograph and a digital image simultaneously with a single shutter press.
- **Universal Film Camera Compatibility:** Engineered as the first camera of its kind to be universally compatible with any film camera equipped with a standard hot-shoe connector.
- **Powerful Standalone Digital Camera:** Can be detached and used independently as a lightweight, compact standalone digital camera.
- **High-Resolution Imaging:** Captures vibrant, high-quality 12MP digital still photographs.
- **Square HD Video Recording:** Records crisp, high-definition 1440 x 1440 video for a distinct, vintage square-aspect aesthetic.

Hybrid Analog-Digital Shooting

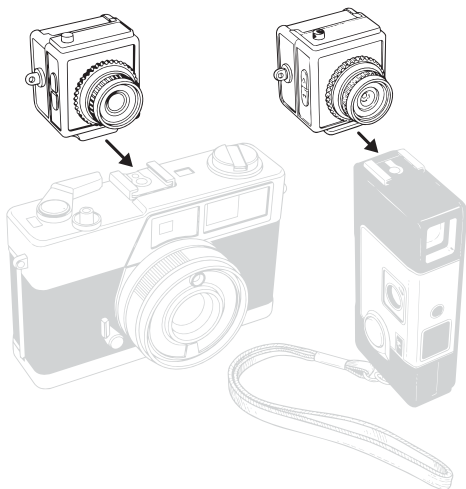
- LIGAR bridges the gap between classic film and modern digital. Equipped with a specialized hot-shoe connector, it links directly to your favorite film camera. The moment you press your film camera's shutter, LIGAR instantly captures a matching digital image—giving you the best of both worlds in a single click.

The Film Shooting Ritual

- Enjoy the mechanical satisfaction of analog shooting combined with digital ease. Simply mount LIGAR to your hot-shoe to synchronize your process—advance your film, press the shutter, and capture digital depth alongside your physical film frame.

Seamless Focal Alignment (28mm - 105mm)

- Achieve perfect composition harmony between your analog and digital frames. LIGAR includes dedicated Wide-Angle and Macro lenses and a precise 5x digital zoom. Together, this system effortlessly replicates the field of view of your connected film camera across a versatile 28mm to 105mm focal range, ensuring your digital preview tightly mirrors your analog shot.



- **Universal Compatibility:** LIGAR can be mounted to any camera format equipped with a **standard shoe connector**.
- **Traditional Hot-Shoe:** Check the camera's hot-shoe contact for cleanliness and proper alignment before attaching LIGAR.
- **Advanced Hot-Shoe:** LIGAR is compatible with multi-pin advanced hot-shoes (which carry TTL, HSS, or wake commands), but it operates using the primary sync signal.
- **Shutter Speed & Electronics:** Performance and supported shutter speeds depend entirely on your connected camera's electronic settings and limitations.
- **Cold-Shoe Mounting:** LIGAR can be mounted to a cold-shoe (no electronic contacts) for physical attachment, but the hot-shoe synchronization function will not operate.
- **Fitment Check:** Ensure your camera's hot-shoe is not bent, deformed, or damaged, as this may prevent LIGAR from locking firmly into place.

Important Notes on Shutter Synchronization

- **Film-to-Digital Sync:** Once LIGAR is mounted and powered ON, its shutter automatically synchronizes with your film camera. Pressing the **film camera's shutter button** will simultaneously trigger LIGAR to take a digital shot.
- **One-Way Trigger Only:** Synchronization is strictly one-way. Pressing the shutter button directly on **LIGAR** will capture a digital image/video, but it **will not** trigger your film camera's shutter.



Warning: If you experience any resistance when attaching LIGAR, or notice improper operation during shooting, stop immediately. Do not force the connection. Please consult an authorized local distributor for assistance.

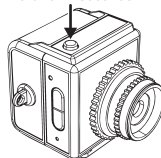
Turning the Camera ON

Operation: Press and hold the **Shutter Button** for 2 seconds.

Status: A "Welcome" screen will appear on the LED display, and the camera will then enter the **Mode Selection** screen.

* No Memory Card Alert: If no MicroSD card is inserted, the camera will automatically turn off after 20 seconds to preserve power.

Hold for 2 seconds



Welcome Screen

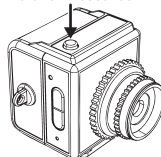


Turning the Camera OFF

Operation: Press and hold the **Shutter Button** for 2 seconds while the camera is on.

Status: A "Good Bye" screen will appear briefly on the LED display before the camera fully powers down.

Hold for 2 seconds



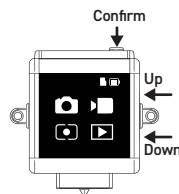
Good Bye Screen



Power Saving (Auto-Power Off)

To conserve battery life, the camera will be automatically **turn off** it remains **idle** with no operations for **2 minutes**.

Mode Selection



Selecting a Mode

- **Navigate:** Press the **Function Button [UP]** or **[DOWN]** to cycle through the available modes.
- **Identify:** The icon of the currently highlighted mode will flash on the screen.
- **Confirm:** Press the **Shutter Button** to enter and activate the selected mode.

Returning to the Mode Selection Screen

- **Operation:** While inside any camera mode, press and hold the **Function Button [UP]** for 2 seconds to return directly to the main Mode Selection screen.

Photo Shooting



Light Meter

Video Recording



Preview

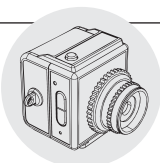
Press and hold the **Function Button [UP]** for 2 seconds to quickly return to the main Mode Selection screen.



Photo Shooting

Standalone Digital Camera Mode

- **Aim:** Point the camera toward your subject.
- **Compose:** Frame your shot using the built-in LED screen.
- **Capture:** Press the Shutter Button once. The digital image will automatically save to your memory card.



Hot-Shoe Synchronized Mode

- **Setup:** Mount LIGAR to your film camera's hot-shoe and frame your shot using either LIGAR's LED screen or your film camera's optical viewfinder.



Hybrid Capture

- **Aim:** Point your camera setup toward your subject.
- **Compose:** Frame your shot using either the camera's LED screen or the optical viewfinder of your connected film camera.
- **Capture:** Press the shutter button on your film camera.
- **Result:** A digital image will automatically save to your memory card, while your film camera simultaneously takes a matching analog exposure.

The Film Shooting Ritual (without the Analog Film)

- Experience the tactile, mechanical satisfaction of analog shooting with the immediate ease of digital. Even without 135 film loaded in your camera, LIGAR keeps the traditional workflow alive. Simply mount LIGAR to the hot-shoe to synchronize your process: advance the lever, press the mechanical shutter, and capture rich digital depth with the physical soul of analog handling.



Video Recording

Standalone Digital Camera Mode

- **Start:** Press the LIGAR shutter button to start recording digital video.
- **Stop:** Press the LIGAR shutter button again to stop recording.
- **Auto-Save:** Every recorded video file is automatically saved directly to your memory card upon stopping.

Hot-Shoe Synchronized Mode

- **Setup:** Mount LIGAR to your film camera's hot-shoe and frame your shot using either LIGAR's LED screen or your film camera's optical viewfinder.

Hybrid Capture (Video + Film Exposure)

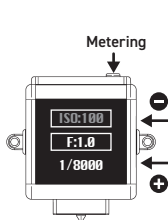
- **Compose:** Frame your shot using either the camera's LED screen or the optical viewfinder of your connected film camera.
- **Start:** Press the film camera shutter to simultaneously start digital video recording and take an analog photo.
- **Stop:** Press the film camera shutter again to stop the video recording and take a second analog photo.

The Video Shooting Ritual (without the Analog Film)

- Even without 135 film loaded in your camera, LIGAR keeps the traditional workflow alive. Simply mount LIGAR to the hot-shoe to synchronize your process: advance the lever, press the mechanical shutter, and capture cinematic video alongside the physical rhythm of analog handling.



Light Meter Mode Operating Instructions



Adjusting Exposure Settings

- **Activation:** Press and hold Function Button - [DOWN] for 2 seconds to cycle between ISO, F-Stop, and Shutter Speed. The selected setting will turn Red, indicating it is ready to adjust.
- **Adjustment:** Press Function Button - [DOWN] to increase the value, or Function Button - [UP] to decrease it.

Adjustable Ranges

- **ISO:** 100 to 800
- **F-Stop:** F1.0 to F64
- **Shutter Speed:** 1s to 1/8000s

How to Take a Reading (Metering)

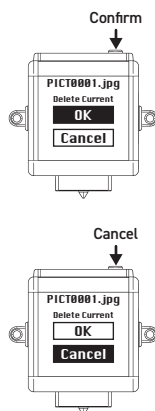
- LIGAR utilizes **Spot Metering** to calculate precise exposure values.
- **Aim:** Point LIGAR directly at the specific subject or area you wish to measure.
- **Measure:** Press the Shutter button at any time to take a light reading.
- **Repeat:** To refresh or take a new reading, simply press the Shutter button again.
- **Recalibrate:** You can readjust your ISO, F-Stop, or Shutter Speed settings at any time to meter with a different configuration.

Important Notes

There is no live preview on the LED screen when entering Light Meter Mode or while taking a reading.



Preview & File Management



Browsing Photos & Videos

- **Navigate:** Press the Function Button - [UP] or [DOWN] to browse through your saved files.
- **Video Playback:** Press the Shutter Button to play or pause a selected video file.

Deleting Files

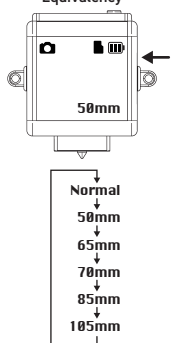
- **Initiate:** Press and hold the Function Button [DOWN] for 2 seconds while viewing the file you want to remove.
- **Confirm Delete:** Press the Function Button [UP] or [DOWN] until [OK] is highlighted on the screen, then press the Shutter Button to permanently delete the file.
- **Cancel Delete:** Press the Function Button [UP] or [DOWN] until [CANCEL] is highlighted on the screen, then press the Shutter Button to safely return to your preview.



Important Warning: Once a photo or video is deleted, it is permanently erased and cannot be restored.

Digital Zoom

135 Camera Equivalency

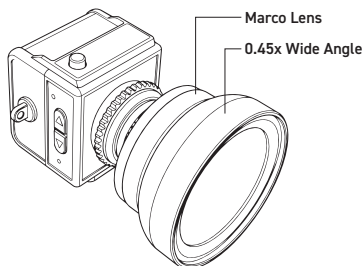


- **Zoom Capability:** LIGAR provides up to a **5x digital zoom** for both photo capture and video recording.
- **Adjustment Sequence:** Press the **Function Button [UP]** while shooting or recording to cycle through the focal lengths (equivalence to 135 camera) in this order:
→ 50mm → 65mm → 70mm → 85mm → 105mm → Normal (35mm)
- **135 Camera Equivalency:** The focal lengths listed above represent the equivalent field of view of a standard 135 camera lens.
- **Image Quality:** Please note that digital zoom crops the sensor area, which will result in a reduction of overall image and video sharpness.

Important Notes

If you apply digital zoom while using a Wide-Angle or Macro conversion lens, the actual equivalent focal lengths will differ.

0.45x Wide-Angle & Macro Conversion Lens



- **Included Lens Set:** LIGAR comes complete with a dual-purpose 0.45x Wide-Angle and Macro Conversion Lens set.
- **Macro Mode (Close-up):** Using the Macro conversion lens alone shifts your focusing distance to approximately 3cm–5cm for close-up photography.
- **Wide-Angle Mode:** To achieve the full wide-angle field of view, the 0.45x Wide-Angle lens must be screwed directly onto the Macro lens.
- **135 Camera Equivalency:** Attaching the complete wide-angle setup expands LIGAR's field of view to match the focal length of a standard 28mm lens of a 135 Camera.

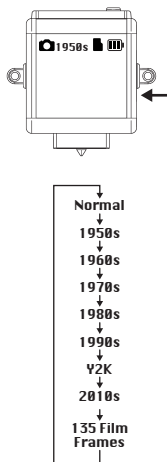
Important Notes

If you apply digital zoom while using a Wide-Angle or Macro conversion lens, the actual equivalent focal lengths will differ.

Care & Maintenance

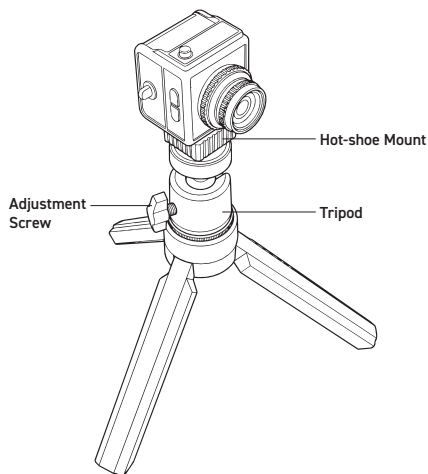
- **Handling:** Handle the conversion lens set with care to prevent scratches, impacts, or damage from drops.
- **Cleaning Restrictions:** Never use harsh chemicals, liquid solvents, or wet cleaners on the glass elements.
- **Proper Cleaning:** Only use a clean, dry, dedicated Lens Cleaning Cloth to gently wipe away dust and fingerprints.

Vintage Soul: Time Capsule Filter & 135 Film Frames



- LIGAR features 7 unique color filters available for both photo capture and video recording. Additionally, it offers a dedicated 135 Film Frame border to add an authentic analog touch to your still images.
- **Adjustment Sequence:** Press the **Function Button [DOWN]** while shooting or recording to cycle through the filters in chronological order:
1950s → 1960s → 1970s → 1980s → 1990s → Y2K → 2010s → 135 Film Frames → Original ...
- **Aesthetic Styling:** Each filter name represents the distinct photographic and color trends of that specific era.
- **Permanent Effect:** Once a Time Capsule filter is active, files are processed and saved with the look permanently baked in. LIGAR will not save a duplicate unedited or original color version to your card.

Tripod & Hot-shoe Mount



- **Image Stability:** Using a tripod significantly improves video stability and reduces camera shake during recording.
- **Assembly:** Attach the hot-shoe mount included in the LIGAR package to the tripod before sliding LIGAR onto the mount.
- **Angle Adjustment:** Loosen the adjustment screw on the tripod head to position your camera angle, then tighten it securely to lock it in place.
- **Universal Compatibility:** The included hot-shoe mount features a standard thread, allowing you to use LIGAR with your own personal tripods or monopods.
- **Safety Precaution:** Always place your tripod setup on a flat, stable, and level surface to prevent the camera from tipping over or dropping.

Troubleshooting Guide

If you experience issues operating your LIGAR camera, please refer to the troubleshooting tables below before seeking technical support.

POWER & CHARGING

Issue	Potential Cause	Solution
LIGAR will not power on.	The battery is fully depleted.	Connect the camera to a power source and charge it fully.
	The battery has reached the end of its lifespan.	If charging does not resolve the issue, the battery may be dead. Please contact customer service for battery replacement.
Battery will not charge.	The USB cable is damaged, or the power adapter is incompatible.	Use the supplied USB Type-C cable, or try a different high-quality data-transfer cable.
	Internal hardware issue.	If the cable is not the issue, please contact customer service for service and repair.

MEMORY CARD ISSUES

Issue	Potential Cause	Solution
Memory card is not detected.	The memory card is not inserted correctly.	Push the memory card firmly into the slot until you hear a distinct "Click" sound.
	The memory card specifications are incompatible.	Ensure your microSD card meets these requirements: Capacity: 4GB to 128GB Speed Class: Class 4 to Class 10
	The file system format is incorrect.	Format your memory card to FAT32 on a computer. (Note: Formatting will erase all existing files on the card.)
	Hardware failure.	If the above steps do not work, the card slot may require inspection. Contact customer service for service.

HOT-SHOE CONNECTION & SYNCHRONIZATION

Issue	Potential Cause	Solution
LIGAR cannot physically mount to the host camera.	The hot-shoe bracket on your film camera is deformed or damaged.	Inspect your film camera's hot-shoe. Try mounting another standard hot-shoe accessory (like an external flash) to check for a physical fit.
LIGAR does not synchronize shutter signals with the host camera.	The host camera's current shutter speed or hot-shoe signal is incompatible.	1. Try shooting at a different shutter speed on your host film camera. 2. Mount LIGAR to a different film camera to verify hot-shoe signal compatibility.

SMARTPHONE & COMPUTER CONNECTIVITY

Issue	Potential Cause	Solution
Cannot browse files on a smartphone.	The smartphone's operating system (OS) does not support direct USB storage.	Try connecting LIGAR to a different smartphone model or OS.
	The USB cable is damaged or does not support data transfer (charging-only cable).	Swap the cable for the supplied USB Type-C cable, or ensure you are using a certified USB data transfer cable.
Cannot browse files on a computer.	The computer's operating system is incompatible.	1. Try connecting LIGAR to a different computer. 2. Remove the memory card from LIGAR, place it in an external card reader, and connect the reader directly to your computer.
	The USB cable is damaged or is not data-compatible.	Replace the cable with a verified USB data cable.

Remark: If you encounter any issues not listed in this guide, or if the suggested solutions do not resolve the problem, please contact your local distributor for professional service and technical support.

For more detailed information on how to use this product,
please enter the URL below or scan the QR code.



<https://www.escura-camera.com/support>

escura



escurainstant60s



escura.lab

<https://www.escura-camera.com/>