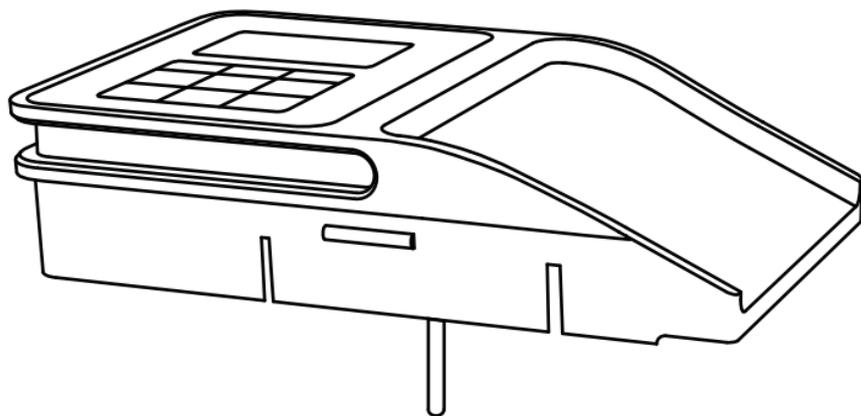


# USER MANUAL

## PROFESSIONAL LID



**LAB-BOX**

[lab-box.it/tutorials](http://lab-box.it/tutorials)

### **WHY LAB-BOX**

Interest in analogue photography is growing. New generations of digital natives are rediscovering the analogue process as something new to experiment with.

This is why we have decided to create a product that would easily allow anyone to develop film rolls in full daylight, indoors or outdoors. Lab-Box addresses the needs of those just getting started with film photography and, at the same time, it is a tool with great potential for professionals and advanced users.

### **WHAT IS LAB-BOX**

Lab-Box is a multi-format tank and can be used for both 35mm and 120 films, thanks to the two interchangeable modules and adjustable reels. The films are loaded in full daylight and are wound onto the reel using the outer knob without the need to be in a darkroom. Lab-Box is the easiest and quickest tool to develop your own films in full daylight anywhere and at anytime, bypassing the need to load the rolls in the dark. Lab-Box is the result of years of research and development, paired with an effective and beautiful design.

### **CROWDFUNDED**

Lab-box is a crowdfunded project that became reality thanks to the Kickstarter platform and to all the 4791 backers that contributed and supported us from all over the world.

*Lab-Box is a project by*

**ars-*imago***

*Design and prototyping done by VIVO Design Studio in Rome, Italy*

**INDEX**

**User  
Manual**

Professional lid parts.....	4
Parts Assembly.....	5
Lid inserting.....	6
Touchpad.....	7
Recommendations.....	8
Temperature/Time Charts.....	9
Safety Information.....	10
Compliance.....	11

## PROFESSIONAL LID

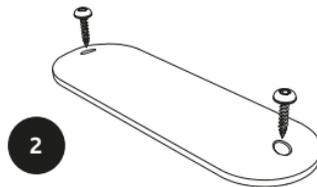
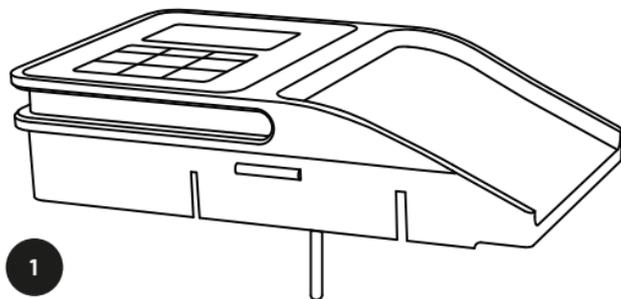
LAB-BOX Professional Lid is a special accessory with a built-in Timer and digital Thermometer. It is a professional alternative to the standard Lab-Box Lid.

The Lid has a stainless steel probe that can measure the liquid temperature inside the tank during the process, to control and check the developing.

Especially useful for processes like the color negative C-41 which need special attention to the temperature.

### PARTS:

1. LID
2. BATTERY COVER
3. PROBE LOCK

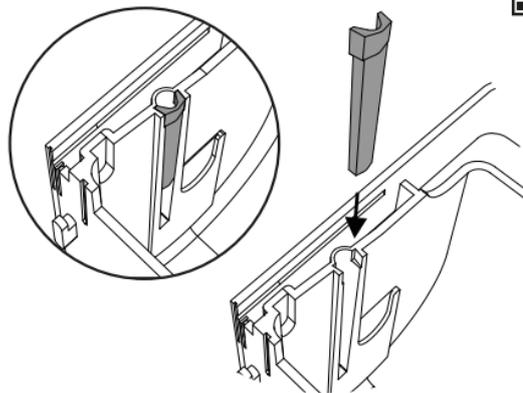




## PROBE

The probe lock holds the temperature probe in the right position throughout the process inside the tank. Insert the probe lock into the probe slot and press it until locked as shown in the picture.

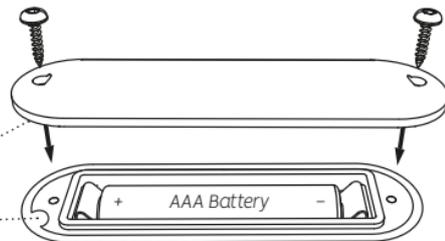
You may leave the probe lock in place even when the professional lid is not in use.



## BATTERY COVER

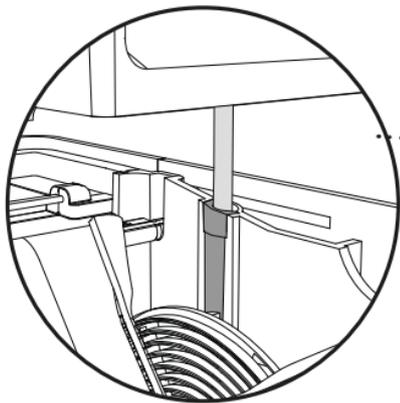
Insert the AAA Battery into the battery slot, place the battery cover (being careful to place it in the same position as shown in the picture) and tighten the two screws. To change the battery, re-open the slot by unscrewing the two screws.

Be careful this shape matches the shape of the battery cover's back

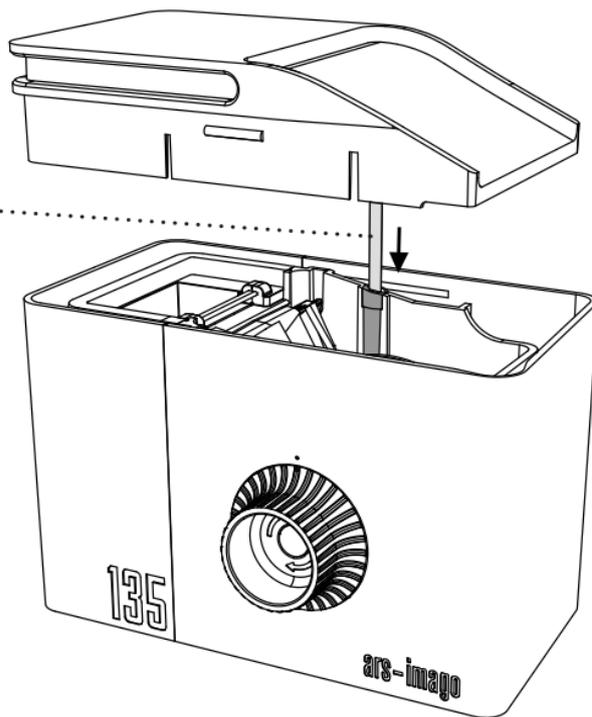




## HOW TO INSERT THE PROFESSIONAL LID



Insert the probe into the probe slot and close the lid by pushing it towards the tank like the standard lid.





## TOUCHPAD

	<b>On/OFF</b> Hold down 5 seconds to turn on and 2 seconds to turn off
	<b>Increase time</b> Touch to increase time by 15 seconds
	<b>Reduce time</b> Touch to reduce time by 15 seconds
	<b>Celsius-Fahrenheit</b> Touch to switch the temperature mode
	<b>Cancel</b> Touch to reset the timer or the pre-sets
	<b>Play-Stop</b> Touch to start or stop the timer
T1	<b>3 Time Pre-sets:</b> Hold down 3 seconds to save the set time. Touch to set quickly the saved time
T2	
T3	



## RECOMMENDATIONS

Professional Lid must not be immersed in water or washed under strong jets of running water. It can be cleaned gently with a wet cloth. We recommend removing it from the tank as soon as the process is finished.



**Do not immerse in water!**  
**Do not wash under running water**  
**Clean gently with a wet cloth**

## TEMPERATURE SENSOR

The temperature sensor is very precise but it needs some time: the precise temperature is usually reached after about 1 minute. Once the temperature stabilises, the indication remains accurate within a range of 0,3/0,4°. Once the chemicals are inside, you cannot change the temperature. You can only check the temperature and adjust the process time accordingly. **Do not push or pull the temperature probe! Move it gently.**

## BATTERY LIFE

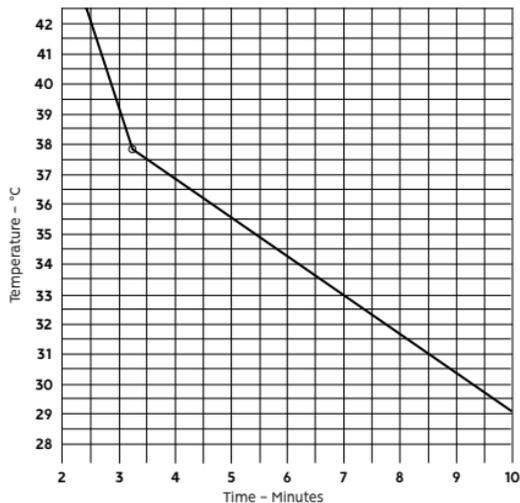
The AAA battery life is about 40–60 hours.  
The device will turn off automatically after 5 minutes of inactivity.

## DEVELOPING TEMPERATURE/TIME CHARTS

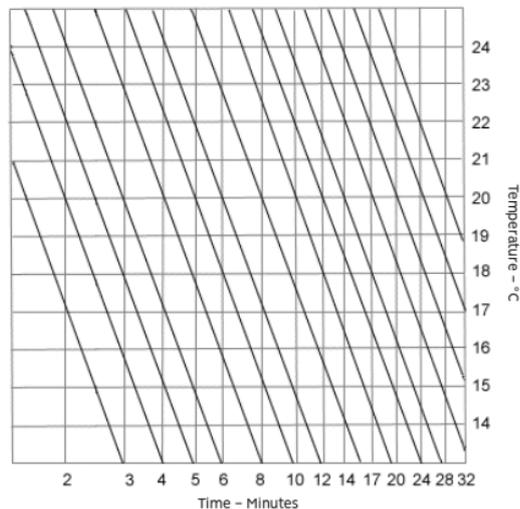
The Developing temperature/time charts below can be followed as a reference for adjusting the process time. The actual temperature process is the average between the temperature of solution before and during the process. Professional lid is especially useful for color negative C-41 process: After about 2 minutes the developer has been poured in, you can check the temperature and calculate the average process temperature and adjust the developing time. For C-41 process we highly suggest a pre-soak with water (pre-heating tank and film) to reduce temperature drifting.

*Example: Developer temperature before to pour in the tank: 39°C. Developer temperature after 2 minutes inside the tank: 35°C.  
The average is 37°C, so you can increase the developing time by 30 seconds according to the following chart.*

Time/Temperature Chart for Color negative C-41 process



ILFORD Time/Temperature Chart for Black and White process



## Safety Information

- Do not disassemble the device. Incorrect reassembly can cause electrical shock if the device is used again.
- Do not immerse the device in water or other fluids.
- Do not operate the device in a high humidity environment or very dusty environments.
- Do not attempt to tamper with, adjust or remove the electronics located inside the device.
- Do not attempt to remove/pull the temperature probe
- Keep the device out of reach from children as the moving parts may cause injury.
- Do not use or store the device near any heat source or any type of equipment that generates heat, including stereo amplifiers.
- Do not use the device near flammable or explosive gases.
- Do not use the device if you notice any unusual odors, noise or smoke.

**14+**

*This is not a toy*

## Usage Environment

- To protect the electronic board contained in this device, never leave it in the following environments for extended periods of time: high temperature (+42°C/108°F), high humidity, places with extreme changes in temperature (hot and cold), direct sunlight, sandy or dusty environments such as beaches, damp places, or places with strong vibrations.
- Do not drop the device or subject it to severe shocks or vibrations.
- Do not push, pull or press on the LCD display.

## Technical Specifications

Dimensions: 168x99x38mm (probe not extended)

Weight: 143g

## Materials

ABS plastic, Silicone rubber, PET adhesive.  
Stainless Steel (temperature probe)

## Care and Warranty

Your Lab-Box has two-year warranty against any manufacturer defects. In the event of defect, the ars-imago will repair or replace the item at our discretion. For the warranty service, please contact [support@lab-box.it](mailto:support@lab-box.it)

## Customer Support

Lab-Box Support Team is always more than happy to hear from you. Get in touch using the contact details provided.

[support@lab-box.it](mailto:support@lab-box.it)  
[www.lab-box.it](http://www.lab-box.it)

**Designed in Italy**, Made in P.R.C.

a project by  
**LAB-BOX** **ars-imago**

### EU Declaration of Conformity

Hereby, ars-Imago international srl declares that the Lab-Box Professional Lid is in compliance with the essential requirements of the Electromagnetic Compatibility Directive (2014/30/EU), Low Voltage Directive (2014/35/EU) and RoHS Directive (2011/65/EU) and other relevant provisions, when used for its intended purpose.

### FCC Compliance Statement

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.

**Caution** The user is cautioned that changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. This equipment must not be co-located or operated in conjunction with any other antenna or transmitter.

**Note** This equipment has been tested and found to comply with the limits 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 different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help. This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. End user must follow the specific operating instructions for satisfying rf exposure compliance.

The symbol means that according to local laws and regulations your product should be disposed of separately from household waste. When this product reaches its end of life, take it to a collection point designated by local authorities. Some collection points accept products for free. The separate collection and recycling of your product at the time of disposal will help conserve natural resources and ensure that it is recycled in a manner that protects human health and the environment.



# LAB-BOX

**ars-*imago***

[www.lab-box.it](http://www.lab-box.it)



@labboxfilmtank



@arsimago