

INSTRUCTION MANUAL



LLG-uniROLLER 6 easy

Analogue Tube Roller

LLG-uniROLLER 6 pro

LCD Digital Tube Roller

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Preface

Users should read this manual carefully, follow the instructions and procedures,

and beware of all the cautions when using this instrument.



Service

When help needed, you can always contact your local LLG-Labware distributor in the following ways:

Please provide the customer care representative with the following information:

- Serial number (on the rear panel)
- Description of problem (i.e., hardware or software)
- Methods and procedures adopted to resolve the problems
- Your contact information

1. Safety Instructions

	<p>Warning!</p> <ul style="list-style-type: none"> • Read the operating instructions carefully before use. • Ensure that only trained staff works with the instrument.
	<p>Protective ground contact!</p> <ul style="list-style-type: none"> • Ensure the socket must be grounded (protective ground contact) before use.

- When working wear personal safety protection to avoid the risk of:
 - Splashing liquids
 - Broken glass containers
- Follow the safety instructions, guidelines and accident prevention regulations.
- Do not touch the moving parts and rolling care not of your fingers.
- Set up the instrument in a spacious area on a stable, clean, non-slip, dry and fireproof surface. Do not operate the instrument in explosive atmospheres, with hazardous substances or under water.
- If the instrument does not run smoothly, please decrease the motor speed.
- Preparation of samples can lead to dangerous flames. Only process samples that will not react dangerously.
- The instrument should only be opened by a qualified person, please switch off before use.
- The voltage stated on the nameplate must correspond to the main voltage.
- Do not cover the instrument while running.
- Keep away from high magnetic field.

2. Inspection

2.1 Receiving Inspection

Unpack the instrument carefully and check for any damages which may have arisen during transport. If it happens, please contact your local supplier for technical support.



Note:

If there is any apparent damage to the system, please do not connect to the power line.

2.2 Listing of Items

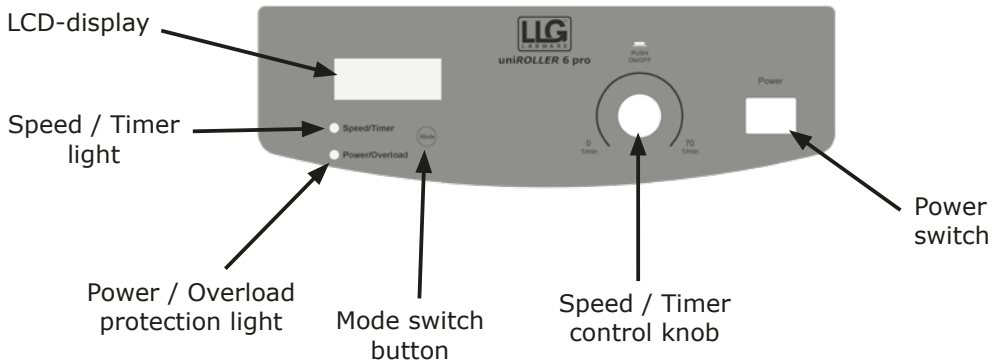
Items	Qty
Main unit	1
Power cable	1
User manual	1

Table 1

3. Control and Display

3.1 Control

LLG-uniROLLER 6 pro



Items	Default settings
Mode switch button Mode	Switch between speed and time display.
Speed/timer control knob	Set speed and time by roller speed/timer control knob. Push on/off to start/stop roller function.
Speed/timer light Speed/Timer	Green/Red LED display light. Different colors of LED light show the value for speed or time that LCD screen currently displays. Green LED light shows that LCD screen currently displays speed. Red LED light shows that LCD screen currently displays time.
Power/Overload protection light Power/Overload	Green/Red LED display light. LED light shows green when switch on, LED light shows red when starts overload protection. When the torque reaches limited value, overload protection function will be started. At the same time overload protection light flashes, while the system stops running.
LCD display	LCD displays the real working state and all setting values.
Power switch I/O	Switch ON or OFF the instrument.

Table 2**LLG-uniROLLER 6 easy**

Items	Default settings
Speed control knob	Roller speed control knob to start/stop roller function.
Power light	Green LED display light.
Power	LED light shows green when switch on.
Power switch I/O	Switch ON or OFF the instrument.

Table 3

3.2 Display LIG-uniROLLER 6 pro



Figure 3

Items	Default settings
Set	Display when set target value.
Err	Display in case of error happening.
Display area	When Set display, this area shows setting value; When Set disappears, this area shows running value.

Table 4

4. Operation

- Place the roller on a safe and stable surface, ensure the required operating voltage and power supply voltage matched, and the socket must be earthed safely.
- Connect the power cable.
- Switch ON instrument.
- The instrument begins self-checking.
- When initialization is over, LCD displays the last running values of speed. (only LLG-uniROLLER 6 pro)
- Rotate the speed/timer control knob to set target speed.
 - a. Press the speed/timer control knob to start roller. Press the speed/timer control knob again to stop rollerfunction.
 - b. Press the mode switch button, LCD displays time, and then o.k. The speed/timer control knob to set target time. Press the speed/timer control knob to start roller function at the set time. During operation, motion can be stopped at any time by pressing the speed/timer control knob. If the knob is pressed again, motion will start again and the timer will restart countdown. When the timer reaches zero, the unit will be automatically halted and an alert will sound. (only LLG-uniROLLER 6 pro)

If these operations above are normal, the instrument is ready to operate. If not, the instrument may be damaged during transportation, please contact your local supplier.



Note:

The set values can be altered at any time.

5. Faults

- Instrument cannot be powered ON.
 - Check whether the power cable is connected.
- Roller function suddenly stops
 - Power/overload protection light changed to red, LCD displays "Er 03", indicate the current failure is "overload protection".
 - Press the speed/timer control knob first to close roller function, and then restart roller function after lowered load. If roller function cannot start, then repeat the process and gradually reduce load.

6. Maintenance and Cleaning

- Proper maintenance can keep instrument working properly and lengthen its lifetime.
- Do not spray cleanser into the instrument when cleaning.
- Do not remove the power line when cleaning. Only use recommended cleansers:

Dyes	Isopropyl alcohol
Construction materials	Water containing tenside / Isopropyl alcohol
Cosmetics	Water containing tenside / Isopropyl alcohol
Foodstuffs	Water containing tenside
Fuels	Water containing tenside

- Before using other method for cleaning or decontamination, the user must ascertain that this method will not damage the instrument. Wear the proper protective gloves during cleaning of the instrument.

Note:



- Electronic device cannot be cleaned with cleanser.
- If you require maintenance service you, must clean the instrument in advance to avoid pollution of hazardous substances, and to send back into original packing including a decontamination form.
- If the instrument will not be used for a long time, please switch off and place in a dry, clean, room temperature and stable location.

7. Associated standards and regulations

Construction in accordance with the following safety standards:

EN 61010-1
 UL 3101-1
 CAN/CSA C22.2 (1010-1)
 EN 61010-2-10

Construction in accordance with the following EMC standards:

EN 61326-1

8. Specifications

Items	Specifications	
	LLG-uniROLLER 6 pro	LLG-uniROLLER 6 easy
Voltage [VAC]	100-240	
Frequency [Hz]	50/60	
Power [W]	30	25
Number of rollers	6	
Roller size [length x diameter, mm]	280 x 30	
Motor type	DC motor	
Speed range [rpm]	10-70	0-70
Speed display	LCD	
Timer range [min]	1~1199	
Timer display	LCD	
Run type	Timer/Continuous operation	Continuous operation
Max. load [kg]	4	4
Overall Dimensions [mm]	470×260×120	
Weight [kg]	5.1	4.5
Permissible ambient temperature [°C]	5-40	
Permissible relative humidity	80 %	
Protection class acc. to DIN EN60529	IP21	

Table 5

9. Ordering Informations

Cat. No.	Descriptions
6.263 645	LLG-uniROLLER 6 easy , variable speed, 6 rollers, 100 V-240 V, 50 HZ/60 HZ, Euro plug
6.263 646	LLG-uniROLLER 6 easy , variable speed, 6 rollers, 100 V-240 V, 50 HZ/60 HZ, UK plug
6.263 647	LLG-uniROLLER 6 pro , LCD-Display, variable speed, 6 rollers, 100 V-240 V, 50 HZ/60 HZ, Euro plug
6.263 648	LLG-uniROLLER 6 pro , LCD-Display, variable speed, 6 rollers, 100 V-240 V, 50 HZ/60 HZ, UK plug

Warranty Replacement

This product is warranted to be free from defects in material and workmanship for a period of three (3) years from date of purchase.

This warranty is valid only if the product is used for its intended purpose and within the guidelines specified in this instruction manual. This warranty does not cover damage caused by accident, neglect, misuse, improper service, natural forces or other causes not arising from defects in original material or workmanship. This warranty does not cover any incidental or consequential damages, commercial loss or any other damages from the use of this product.

The warranty does not cover damage to paint or finish and defects or damages caused by physical and chemical abuse or normal wear and tear. The warranty is invalidated by any non-factory modification, which will immediately terminate all liabilities on us for the products or damages caused by its use. The buyer and its customer shall be responsible for the product or use of products as well as any supervision required for safety. If requested the products must be returned to the distributor in well packed and insured manner and all shipping charges must be paid.

Information on the disposal of electrical and electronic devices in the European Community:

The disposal of electrical devices is regulated within the European Community by national regulations based on the European Directive 2012/19/EU on waste electrical and electronic equipment (WEEE). According to these regulations, any devices supplied after 13.06.05 in the business to business sphere, to which this product is assigned, may no longer be disposed of in municipal or domestic waste. They are marked with the following symbol to indicate this. As disposal regulations within the EU may vary from country to country, please contact your supplier if necessary.

PRODUCT DISPOSAL



In case the product is to be disposed of, the relevant legal regulations are to be followed.



Lab Logistics Group GmbH
Am Hambuch 1
D-53340 Meckenheim/Germany

Fon: +49 (0)2225 9211- 0

Fax: +49 (0)2225 9211-11

www.llg-labware.com

info@llg-labware.com