

# unicornBOX

QuickStartGuide version 1.0



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## 1. What is unicornBOX

Congratulations on your purchase of the **unicornBOX** from LANG AG. The unicornBOX is a small sized, battery powered test pattern generator. It enables technicians to troubleshoot and check a video signal chain on site. Moving test pattern and exclusive developed EDID analysis functions ensure a professional workflow.

## 2. Hardware and charging instructions

- a. Rotary Encoder
- b. DDC-State LED
- c. 16x2 character display
- d. HDMI Output
- e. Battery-Voltage-Indicator
- f. Main switch
- g. Micro USB socket
- h. Charging indicator LED

Connect the Micro USB socket to a 5V/1A power supply to charge the device. Charging is possible while the device is powered on or off. For faster charging please switch off the device. A total charging cycle should be done within four hours when turned off

## 3. Power indicator

While pushing the Battery-Voltage-Indicator, the four LED represent the current capacity which is remaining. Depending on the usage the following rest times can be assumed (for static pictures)

	RED	YELLOW	GREEN 1	GREEN 2
Remaining Runtime <sup>1)</sup>	1,5h	4h	5h	6h

1) with Color Bars at 1920p50

## 4. Menu index and test pattern

### Navigation

Going through the menu is done by turning the jogwheel left and right. Confirmation is done by a push on the jogwheel.

### Structure

The menu is divided in two sections, at the end of each submenu you can go a level back by choosing the corresponding entry “#back”



### Timings

Within this menu you can choose your output resolution and framerate. If no EDID Register can be read, several standard timings can be selected. Otherwise all possible timings can be selected.

### Pattern

Within this submenu you can choose your output pattern. Pattern parameters can be set within further submenus.

<b>Ramp</b> <ul style="list-style-type: none"> <li>• Primary Color</li> <li>• Secondary Color</li> <li>• RGB <sup>2)</sup></li> <li>• Orientation</li> <li>• Movement <sup>1)</sup></li> </ul>	<b>Burst</b> <ul style="list-style-type: none"> <li>• Orientation</li> <li>• Movement <sup>1)</sup></li> </ul>	<b>Grid</b> <ul style="list-style-type: none"> <li>• Size</li> <li>• Background Color</li> <li>• Foreground Color</li> <li>• Circle Visibility</li> <li>• Index Visibility</li> <li>• Movement <sup>1)</sup></li> </ul>
<b>Colorbars</b> <ul style="list-style-type: none"> <li>• Intensity</li> <li>• Black Bar Visibility</li> <li>• Movement <sup>1)</sup></li> </ul>	<b>Fullscreen</b> <ul style="list-style-type: none"> <li>• Color</li> </ul>	<b>EDID</b> <ul style="list-style-type: none"> <li>• Fontsize</li> <li>• Background Color</li> <li>• Foreground Color</li> <li>• Polling <sup>3)</sup></li> <li>• Movement <sup>1)</sup></li> </ul>

1) Movement gets disabled as soon as an UI input is detected, to improve performance. Movement is disabled for the UHD Timing

2) RGB-Ramp Pattern overrides the other Ramp settings

3) EDID Polling requests the current EDID and refreshes the view every two seconds. EDID Polling overrides all other settings

## 5. DDC LED

The DDC LED lights red if no DDC connection is detected. If a successful connection is detected, the LED will turn green.



## 6. Technical data

Dimensions:	175 x 128 x 54 mm
Weight:	0.85 kg
User interface:	rotary-encoder with push button for menu navigation 16 x 2 character LCD for adjusting bicolor LED indicating DDC state battery capacity indicator
Connectors:	HDMI 1.4 female / micro USB female (for charging)
Power consumption:	5V, 1A
Battery runtime:	approx. 7 hours (depending on usage)
Supported output modes:	HDMI, DVI
Supported output pixelclock:	max. 212 MHz
Supported timings:	up to 3840 x 2160 @ 25 Hz (detailed list can be found on <a href="http://www.solutions4av.com">www.solutions4av.com</a> )
Available test pattern:	colorbars fullsreen (R, G, B, C, M, Y, W, ...) ramp (colored, grey, triple color, ...) burst (horizontal, vertical) grid EDID-information diagonal moving option for all pattern

## Imprint

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