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User manual of the 10 slide rotary viewer model 2007
Hand wheel advance mechanism
07-02-A-H-c



The contents are subject to changes without giving notice. Last update June 2017

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Introduction

This viewer is the result 30 years of experience in building high quality 3D slide viewers for public use. Each change in the previous models extended the durability, stability and the quality. Especially this 10-slide rotary viewer 2007 has been adapted for the demand to show short 3D slide series to large amounts of public to be informed.
Model 2007 got some small upgrades in construction in 2009.
Changes 2009

- Timer electronics have been removed causing defects in the inverter and mechanical damage to the IR light switches (removed as well).
- The lamp is always on.
- The lamp is changed to a LED backlight.
- A small internal rectifier circuit provides a reliable stable power source. In the past the external dc adapters often caused problems because of too low quality rectifiers.
- Small changes in the construction to preserve alignment of parts when de- and reassembling the viewer.

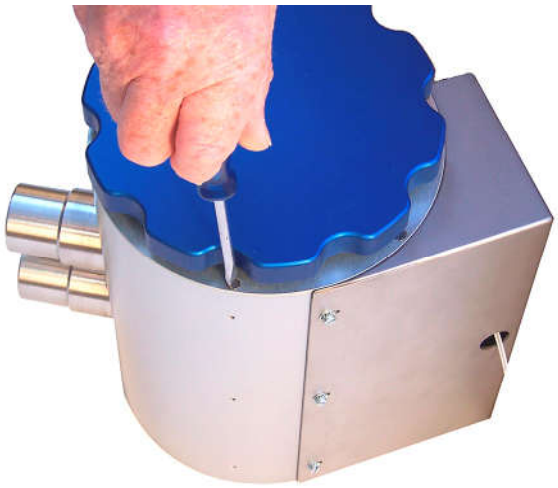
Changes 2013 are mechanical to preserve more stability and improve assembly.
Changes 2016 are mechanical to preserve more stability and improve assembly.
Changes 2017

- PCB inside has been updated, rectifier has been removed, polarity error protection added.

1. First indications for operational use

1.1 Opening the viewer for exchanging the slides.

- For exchanging the slides you have to remove the cover of the round housing where the hand wheel is located;
- Remove the 6 bolts.
- Now you can insert or exchange your slides and text cards. Keep the order and position of the slides in mind that they won't be presented up side down!
- Do not de-assemble the drum from its axle.





1.2 Were do I place the viewer?

Obviously you already have chosen a spot for the viewer in your museum, exhibition or other public environment. Here are some considerations that might help you to check the spot;

- Keep in mind the height of the viewer. Height of ground up to the lenses ± 1.4 meter. Children and grown-ups both want to look in the viewer! An extra step is recommended.
- Depending on the interest of the viewer, people might form a queue. This could cause congestion for the rest of the public.
- Watch out for sunlight coming through the lenses! The lenses will act like burn glasses on the slides. A few minutes in the sun will cause enough damage to the slide that it should be replaced. Within 1 day, in worst case, you have to replace all slides. You can see this on the slide like tiny little white spots showing the track of the sun during the day.
- Avoid spotlights to be shinning on the lenses. The slides are not going to be burned but it does shorten the lifecycle of the slide.
- When the viewer is to be mounted inside some kind of panel, be sure you can get easy access to the viewer for replacing the slides.

1.3 How do I mount the viewer against a wall?

The 10 slide rotary viewer holds a bracket at the back that has several holes to attach the viewer with screws or bolts against a wall. First you have to remove the 3 bolts on the top of the bracket (see the image) and the bolts underneath the viewer to position the bracket only against the wall. Think about how you want to let the cables run through the bracket; are they going through the wall or do they go through the hole at the bottom of the bracket?



Picture 3

2 Data

2.1 Technical specifications of the rotary viewer

Slides:

- Slide frame format; 41x101 mm.
- Maximum picture size; 23x33 mm.
- Compatible with RBT frames, mounted between glass maximum 3 mm. Thickness.
- The drum can hold 10 slides and accompanying text cards.

Optics:

- One lens barrel holds 2 achromatic lenses of ∅ 37 mm. f= 120 mm. each.
- Total focal distance is 60 mm.; magnification: 4.2 x
- Lenses are coated on all sides
- Lens separation is fixed to 62 mm.

Illumination:

- The slide is illuminated by a LED backlight.
- The color temperature is 4200 Kelvin.
- The lamp runs on 12 Volts dc at ± 65mA.
- Brightness can be adjusted on the small pcb inside (bleu trimmer).

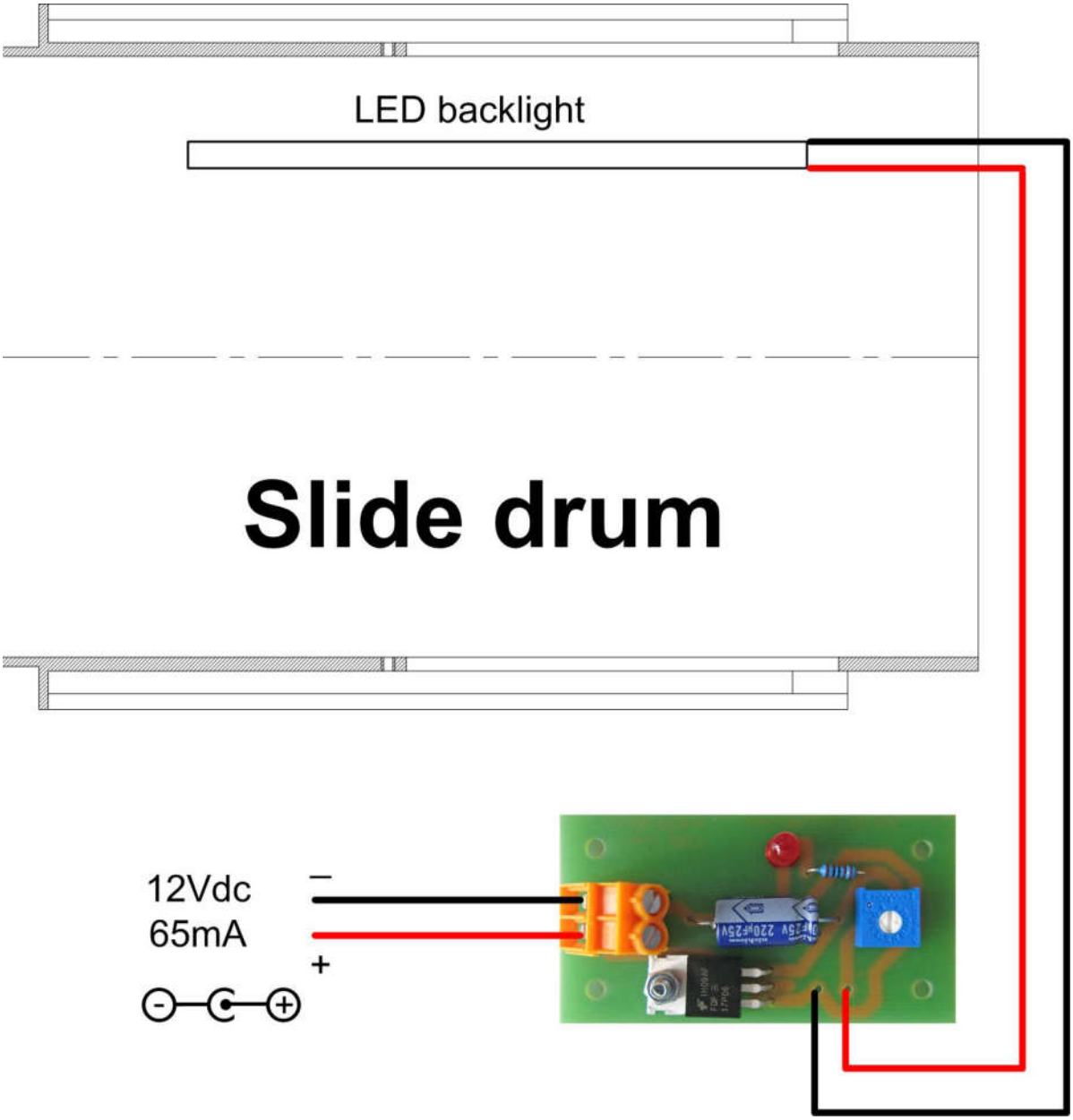
Electronics;

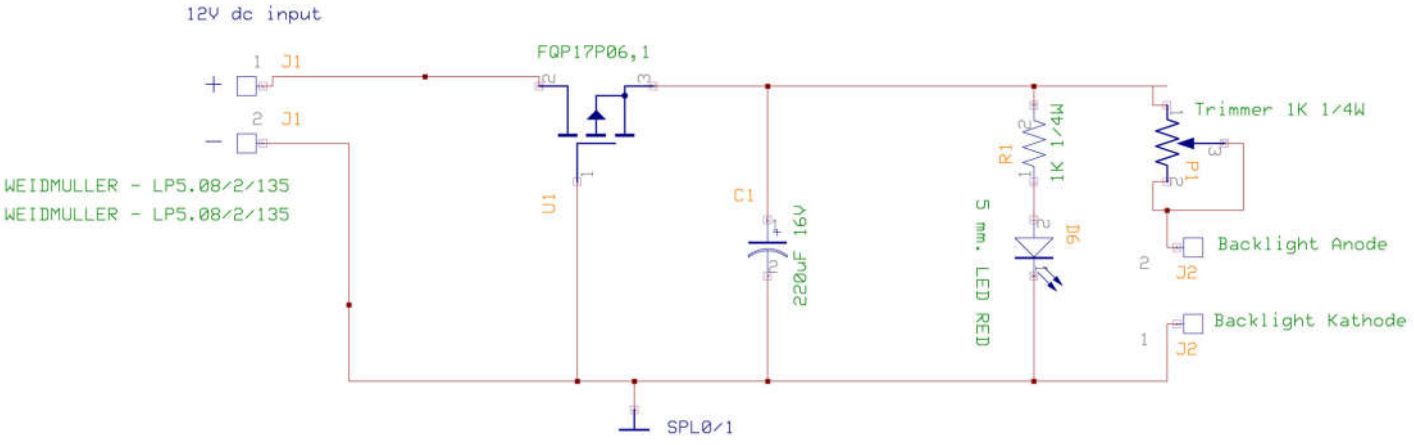
- The viewer is powered by 12 Volts dc. The viewer comes with a 220 Volts AC adapter giving 12 Volts dc. at 1000mA.
- THE VIEWER SHOULD BE GROUNDED TO EARTH.

Mechanics;

- The Housing of the viewer is made of plain hard anodized aluminum. The wall bracket and lens barrels are made of stainless steel.
- The slide drum revolves on ball bearings and don’t need any lubrication.

2.2 Internal electrical connection diagram.





2.3 Wall bracket dimensions in mm (not to scale).

