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User manual of the 10 slide rotary viewer model 2007
Hand wheel advance mechanism



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Introduction

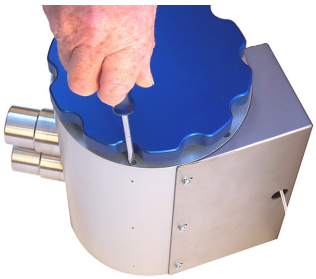
This viewer is the result 30 years of experience in building high quality 3D slide viewers for public use. Each change in the previous models extended the durability, stability and the quality. Especially this 10-slide rotary viewer 2007 has been adapted for the demand to show short 3D slide series to large amounts of public to be informed. To give any idea about the changes with respect to the previous model:

- The CCFL is more protected against damaging when inserting the slide drum.
- The assembly of the slide drum to the main axle is more solid.

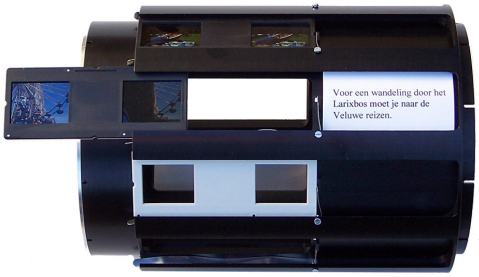
1. First indications for operational use

1.1 Opening the viewer for exchanging the slides.

- For exchanging the slides you have to remove the right cover of the round housing; see the image. That is the side where the text window and the pushbutton are located.
- Remove the 6 bolts.
- Remove the DC adapter plug from the rear side of the drum.
- Now pull gently the right cover away of the main drum and place the whole thing right up on a table.
- 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!



Picture 1



Picture 2

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. Children and grown-ups both want to look in the viewer!
- 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 of another model but the bracket is the same.

Picture 3

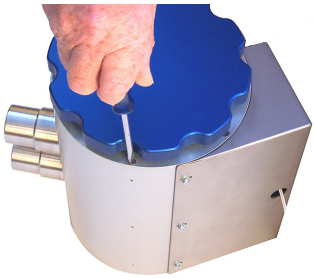
2. Manual operation

In this situation, the rotary viewer is used in stand-alone mode, without any external devices.

2.1 Two operational modes:

The rotary viewer is able to work in 2 different modes. These modes are configurable using the small switches inside the viewer. To get access to these switches follow the next directions:

- Removing the 6 bolts of the right cover of the viewer (the side where button is located, picture 4).



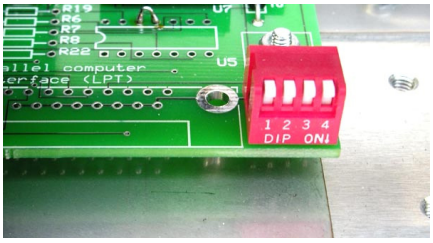
Picture 4



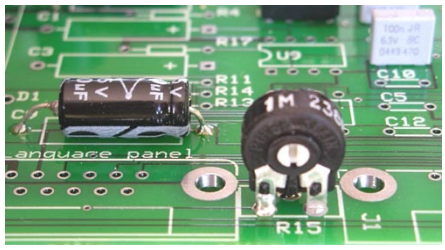
Picture 5

- Now you see the round slide drum. Through the bars of the slide drum, you see the red dipswitches (picture 6)

Picture 6



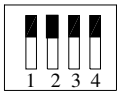
Picture 7



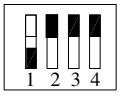
To change the turn off time of the lamp, you have to remove the slide drum by taking the 3 bolts on top of the drum away. Be careful with removing and replacing the drum. You can damage some electronic parts. Now the time is set to ± 40 seconds. Turning with a screwdriver the pot-meter counter clockwise, will increase the time, turning anticlockwise will decrease it.

At the left (picture 6) you see an image of the dipswitch.
At the right you see an illustration; the black square marks the position of the switch.

Mode 1:
After the pre-set shut-off time, the lamp turns off and the viewer stays at this slide.



Mode 2:
The lamp is always ON. Switch 1 should be pushed down (ON position)



6 Data

6.1 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 (cut to size 42x74 mm.).

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 single CCFL (Cold Cathode Fluorescent Lamp) passing its light through a light guide.
- The colour temperature is 5500 Kelvin.
- The lamp runs on 12 Volts dc at ± 300mA using an inverter.



12Vdc 500mA
2.1 mm plug

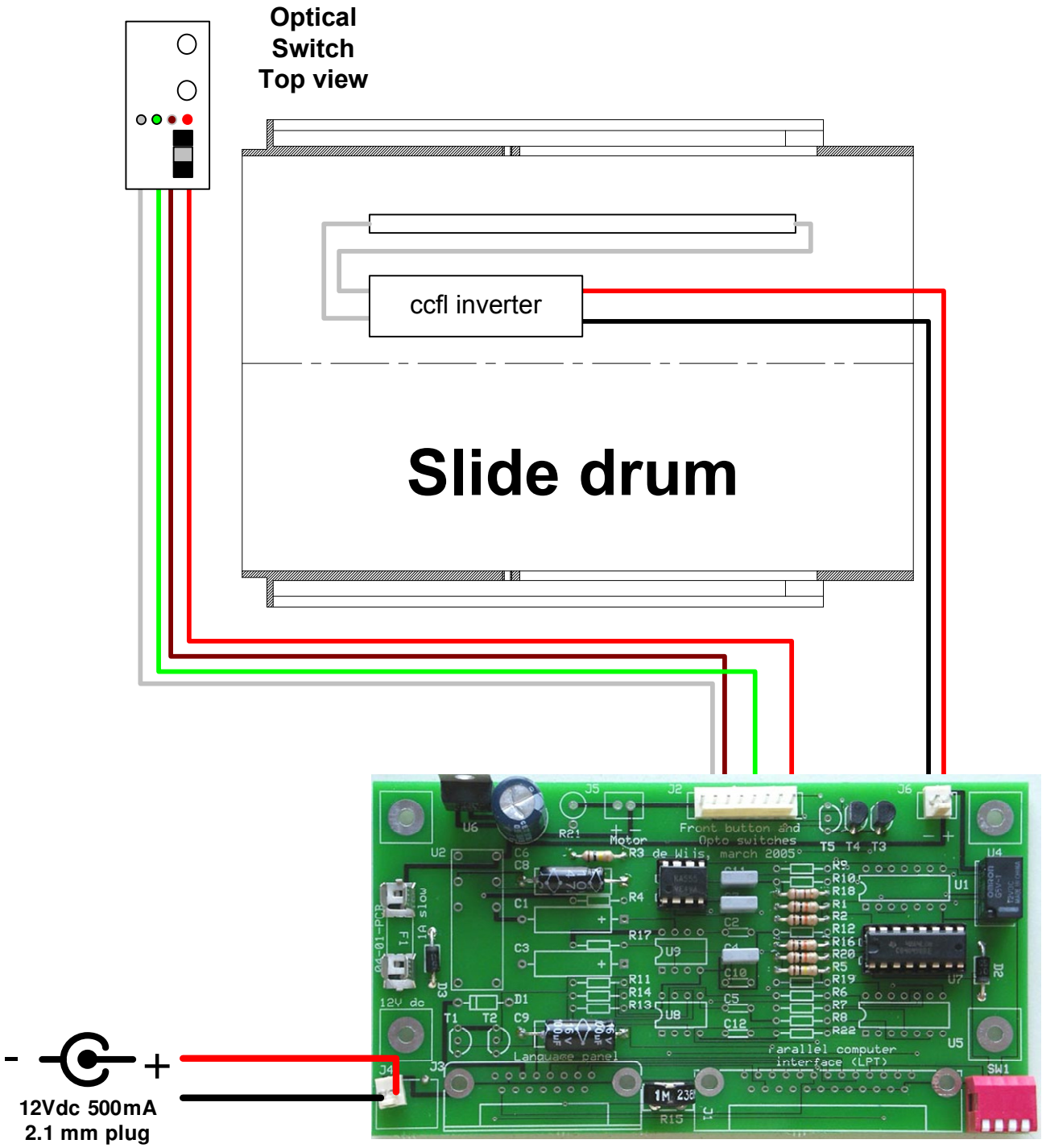
Mechanics;

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

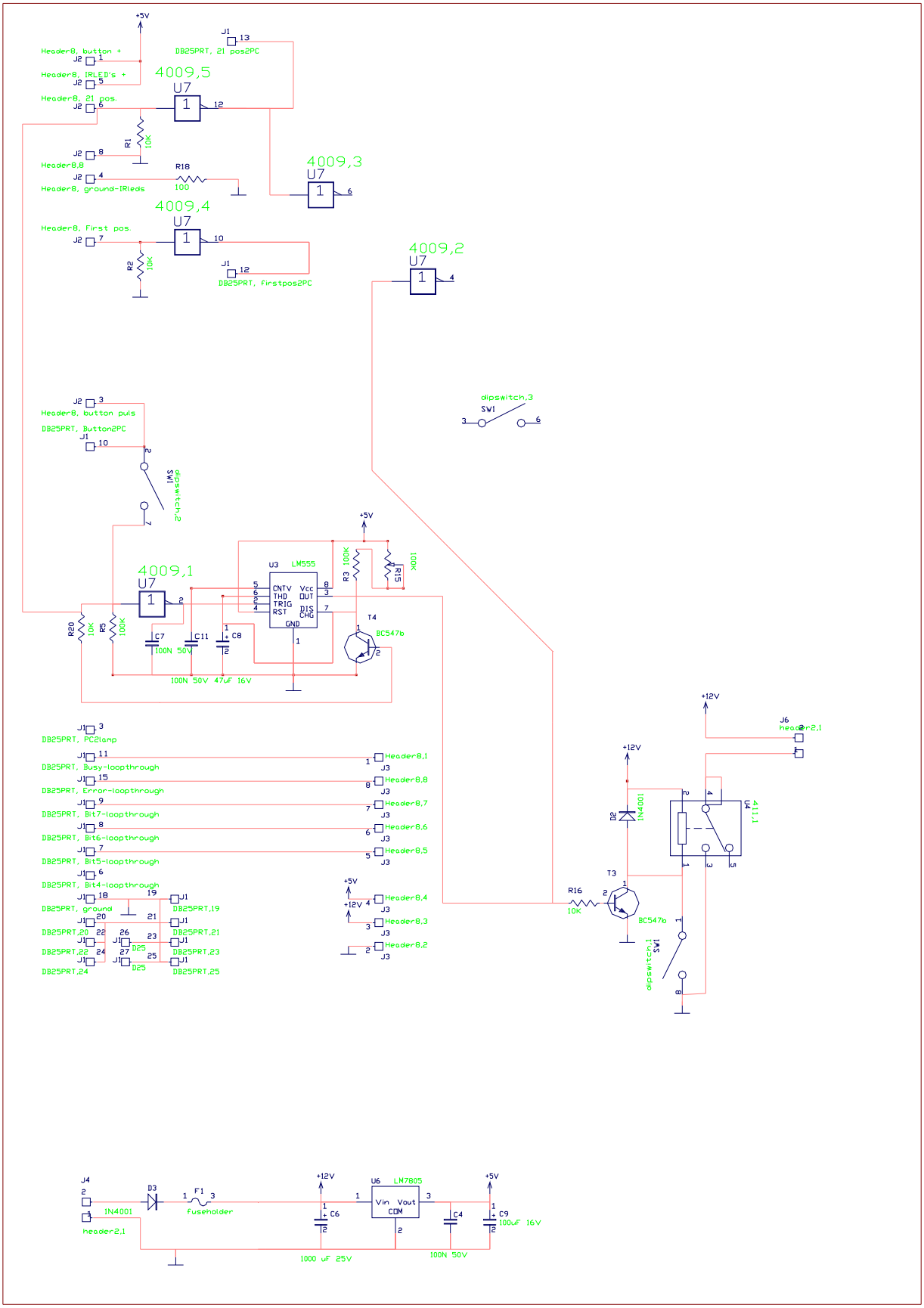
Electronics;

- The whole viewer runs on 12 Volts dc. The viewer comes with a 220 Volts AC adapter giving 12 Volts dc. at 500mA. OR 12 Volts ac at 500mA. (models produced after February 2009). Check your viewer!
- The internal circuitry is fused with a 1 Amp. fuse.

6.5 Internal electrical connection diagram.



6.6 Electronic schematics, Hand wheel version



6.7 PCB layout

