Ing. J. de Wijs.
Populierstraat 44,
4131 AR Vianen,
the Netherlands

Tel. +31 (0)347-372242
Fax. +31 (0)347-355643
e-mail: info@dewijs-3d.com
Website: www.dewijs-3d.com

DE WIJS

Design and production of stereoscopic instruments.

Bank: Postbank account: 6084601,
Swiftcode/BIC: PSTBNL21
IBAN: NL24PSTB0006084601

Tax number: NL 1899.16.084 B01
K.v.K. Reg. Nº 23071201 Utrecht

User manual

Viewer illumination 05-13C-LA

For the Combi 3D slide viewer





The content of this document is subject of change without notice. January 2006

General:

This viewer illumination is designed to couple with the Combi 3D viewer models of 1994, 2000 and 2003. Model 1997 is to narrow. The light source is based on a Cold Cathode Fluorescent Lamp (CCFL) and operates on rechargeable batteries as well as a mains adapter. The 5500 Kelvin color white illumination will present your images with the original colors even when the lamp is dimmed.

Mount the viewer illumination on the Combi viewer.



- ?? Put the illumination upside down on the table.
- ?? At the front – underside you see a small metal strip as shown in the right image. It can be pushed away inside the housing.
- ?? Take a pen and push with the tip the metal strip aside at the underside in the hole.
- ?? Now take the viewer and let it shift in the grooves at both sides of the illumination housing
- ?? If you mount it for the first time, you have to adjust the steel clamps at the left and right side to fit properly with your model of Combi viewer.
- ?? When the viewer fits, release the metal strip as soon as the viewer is totally dropped in its slot.

Normal use of the viewer illumination.

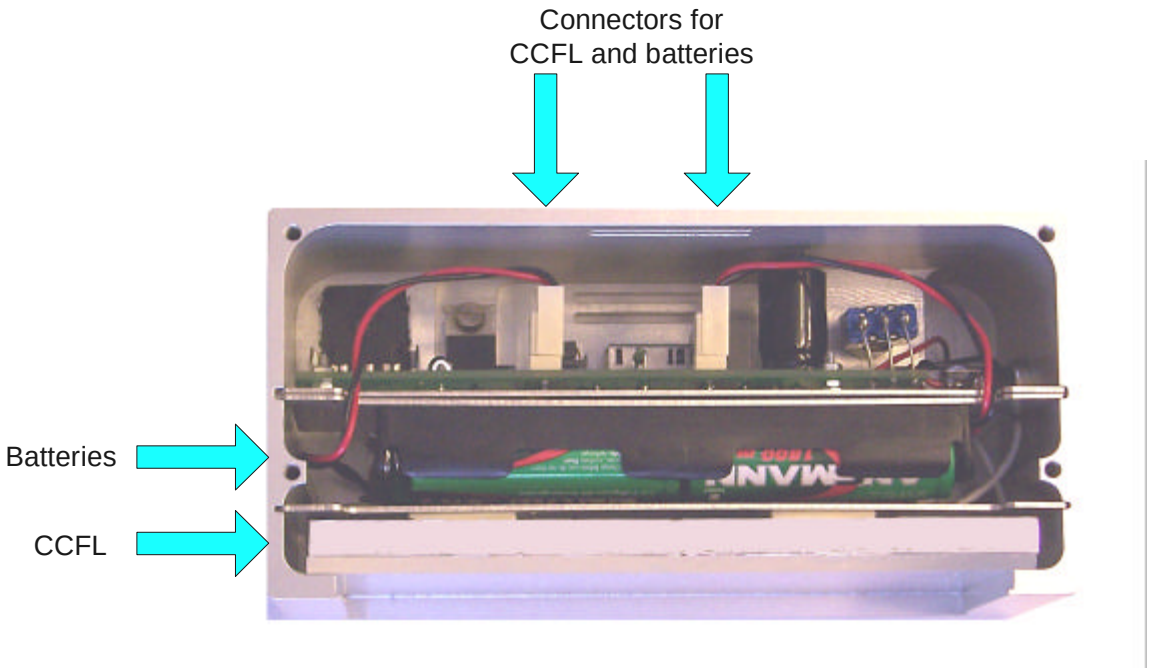
Pushing the red button turns on the light. Releasing it turns it off. The CCFL tube lamp takes some time to get to full brightness temperature.
When the viewer illumination is connected to the external adapter, the batteries are charged anytime. Now, when the black shifting switch is moved, the lamp turns on and stays on. This is only applicable when the external adapter is used.
Brightness can be adjusted by turning the wheel at the rear.

Batteries

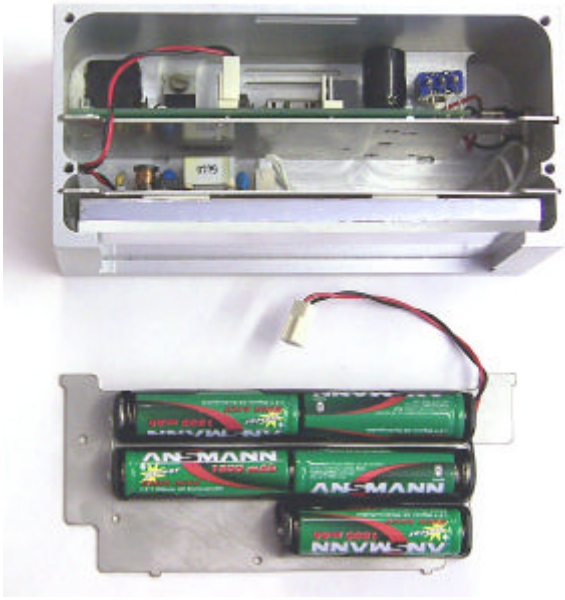
In Mobile use the viewer illumination runs on 5 rechargeable NimH penlite (AA) batteries (6 Volts in total). During tests it appeared that with the supplied batteries of 2000mA. The illumination runs for about 3 hours. The CCFL lamp uses about 350 mA. At 6 Volts. As soon as the external adapter is connected, the batteries are always charged. This is a low charging current so from empty to full takes about 1 day.

Exchanging batteries:

After a significant time it appears that the batteries are not have enough power for good operation even when charged. They have to be replaced.



- At the underside, remove the four M3 bolts and remove the cover
- Now carefully remove the 2 small white connectors at the rear of the housing (with red and black leads). Pull them straight out of the socket, don't tilt them, it might break the socket.
- Take the battery unit at the sides and pull it out of the housing.
- Now you can exchange the batteries and reassemble the illumination in reverse order.
- Warning! The battery unit has small knobs at the underside. They have to fit in the corresponding gabs on the bottom of the housing.
- Warning! Take notice of the position of the small white connectors at the rear when you replace them.



Technical information.

Type of illumination	CCFL 5500 K 130 mm. Lenth Ø 3 mm.
External and internal Voltage	9 Vdc. stabelized 1 A. External and 6.2 Volts at 500 mA internal.
Power consumption.	350 mA for the lamp, in total 3.5 Watts (with charging)
Charge current of the batteries	< 100mA
Illuminated area	109 x 47.5 mm.
Width of the coupled viewer	120 mm. x 55 mm. Height
Expected lifespan of the lamp.	10.000 hours, given by the lamp factory.
With full batteries expected usage time.	± 3 hours, depending on the type of batteries.

Electronic schematics.

