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**INSTRUCTION MANUAL
OF
WHITE LIGHT-ILLUMINATOR**

BIANCO- 2

(CAT No. TIBCR-0WP002)

(OLD CAT. No. 34-60002)

BIANCO - 4

(CAT No. TIBCR-0WP004)

(OLD CAT. No. 34-60004)

BIANCO - 8

(CAT No. TIBCR-0WP008)

(OLD CAT. No. 34-60008)

Manufactured and Marketed by:

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Dear Customer,

Congratulations on procuring the **Bianco**!

The Bianco is a robust and flicker white light-illuminator specially designed and manufactured for biotechnology laboratories.

The Bianco range of illuminators are optimally **bright** and on par with imported models. Our illuminators are **safe** for use and enable management even by undergraduate students and most importantly; are very **economical**.

The illuminator is indigenously manufactured with high quality components and is specifically designed to suit Indian laboratory conditions. It works on an integrated circuit controlled electronic ballast which gives a **flicker free** result. There is a provision for a **high and low intensity** controller. The small foot print enables it to fit easily on a work bench.

Precautions:

1. Keep the trans-illuminator dry at all times.
2. Avoid using when the input AC voltage has fluctuations.
3. Please read the manual carefully before using the trans-illuminator

Check before installation

- A. Check for any physical damage to the trans-illuminator that may have occurred in transit
 - B. Check the mains supply with a multimeter for proper and correct voltage (within limits 220 – 245 V)
 - C. Functionality test
 1. Connect the trans-illuminator through a stabilizer to the mains and switch it ON via the mains switch on the top panel
 2. Upon activating the trans-illuminator unit, the white light tubes will start glowing
- Note: To ensure long life of the ballast and lamps, connect the trans-illuminator to a stabilizer.

Diagrammatic representation of the Bianco

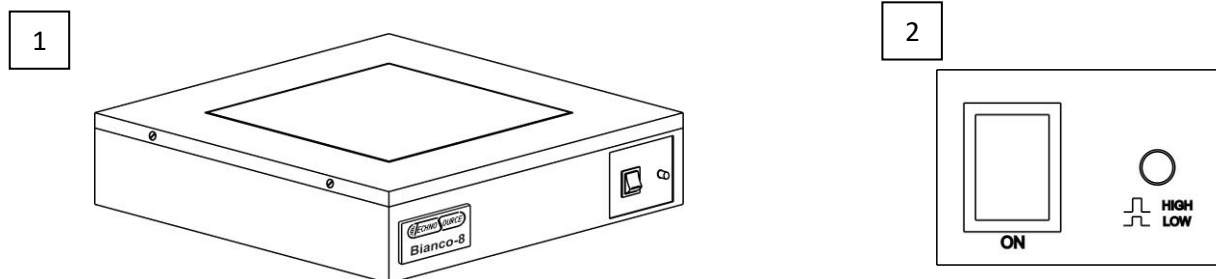


Fig. 1 – Illuminator

Fig. 2 – Control panel with ON/ OFF
& HIGH / LOW switch

Complete Specifications:

Model	BIANCO-2	BIANCO-4	BIANCO-8
Number of white light LED's	NA	NA	NA
Lamp life	50,000 hrs	50,000 hrs	50,000 hrs
Output colour:	Cool white	Cool white	Cool white
Total LED wattage	NA	NA	NA
Viewing (illuminated) surface	15 (w) x 10 (l) cm	18 (w) x 15 (l) cm	25 (w) x 25 (l) cm
Dimensions of the base [measurement excludes projecting knobs and switches]	16 cm (w) x 19 cm (l) x 7 cm (h)	19 cm (w) x 23 cm (l) x 7 cm (h)	25 cm (w) x 33 cm (l) x 7 cm (h)
ON/ OFF switch position	Top panel	Top panel	Top panel
High – low intensity control switch	Top panel	Top panel	Top panel
Fusing position (Fuse rating)	Back panel (1.5 mA)	Back panel (1.5 mA)	Back panel (1.5 mA)
Voltage input	230V rms, 50 Hz	230V rms, 50 Hz	230V rms, 50 Hz
Cooling by normal convection, venting at the bottom	Yes	Yes	Yes
Operating temp. range	+15°C to +45°C	+15°C to +45°C	+15°C to +45°C
Humidity tolerance (non-condensing)	up to 85%	up to 85%	up to 85%

Using the Bianco

1. Make sure the ON/ OFF switch on the top panel of the trans-illuminator is switched off
2. Connect the mains plug to a stable source of power outlet
(230V, 50Hz, single phase, with functional grounding)
3. Carefully place your gel on the window of the trans-illuminator, taking care not to break the gel or to scratch the surface of the window
4. Switch ON the mains switch on the top panel – the LED's should start glowing immediately
5. You can dim from the High and Low intensity using the dimmer knob switch.
6. When visualization is complete switch OFF the mains switch on the top panel
7. Carefully lift the gel from the window of the trans-illuminator, taking care not to scratch the surface of the window
8. Clean the window surface with a tissue paper dampened with distilled water (D/W). Wipe excess D/W with a dry tissue paper
(DO NOT USE ANY OTHER CLEANING AGENTS. Alcohol, cleaning spirits etc. will damage the surface)

Troubleshooting procedure

SR. NO.	Indication	Cause	Remedy
1	Mains switch is not illuminated AND LED's are not glowing	Faulty main supply	Restore the mains supply
		Instrument fuse blown	Try replacing with correct fuse of 1.5A, only once. If fuse blows again contact us at sales@techresource.in
2	Mains switch is illuminated but LED's are not glowing	Electronic ballast is blown	Ballast needs to be replaced. (We use a specially designed ballast. DO NOT attempt to replace with commercially available ballast)
		One or multiple LED's are not functional	LED's need to be replaced (Please contact us to get the correct tubes)
3	Mains switch is not illuminated but tubes are glowing	The bulb in the mains switch is blown	Mains switch needs to be replaced (Please contact us at sales@techresource.in)
4	No bands seen in the gel (Check our vertical apparatus manual for a complete trouble shooting guide)	Sample has degraded	A ladder (or any control) would help to visualize if the gel has run properly
		Inadequate amount of sample	Load a larger amount of sample
		Sample has not run	Check if staining is present in the stacking gel near the wells. If yes please follow the trouble shooting guide in any of our vertical electrophoresis manuals
		Sample has run out of the gel	Compare your band position with respect to the dye front
		Staining incomplete	Use a higher concentration of staining solution Stain for a longer time
		High background of staining observed	De-stain the gel further

If you are facing any difficulty in understanding the instruction or operating the trans-illuminator, kindly contact us at: sales@techresource.in with your feedback on steps given above. This will provide us with necessary information to advise you properly.