PRIMAX® BERLIN GMBH

LED Viewer – Technical Specification

LED VIEWER – TECHNICAL SPECIFICATION

Product Description

PRIMAX offers Ultra-Slim X-ray film viewers manufactured in LED technology in a modern Ultra-Slim design.

Applications

- X-ray film viewers series LED-NGX can be used to view X-ray pictures and films of all sizes.
- The X-ray film viewers are medical devices intended to analysis of medical images on X-ray films, which is an element of imaging diagnostics, which is one of the basic methods of diagnosing human diseases.
- X-ray film viewers facilitate the analysis of X-ray images, which is one of stages of diagnosis as radiological examination's results for various disease cases in which such examination is necessary.
- The scope of medical indications includes damages and diseases of internal organs, the skeleton and elements of the circulatory system, etc.
- The devices do not come into contact with patients as they are devices supporting the process of analyzing the X-ray image by a doctor.
- Perfectly fulfill their functions in operating rooms as well as treatment rooms offices specialized in the diagnosis of mammographic and many other health care facilities.
- The device's user should have a medical knowledge and – in case of some operations – should also have a basic technical knowledge.

Product Benefits

- LED technology exceed x-ray viewers in CCFL, PLL, TFT technologies in all fundamental parameters.
- LED X-ray film viewers use modern LED panels having color temperature and power allowing prolonged viewing of X-ray negatives with no eye fatigue.
- This technology increases radiologist's comfort, reduces eye's fatigue and completely eliminates light's flickering.
- Smooth luminance adjustment enables the user to chose the intensity of screen's blacklight according to the degree of darkness of the X-ray film and individual preferences.
- The adjustment is possible in the range from 100% to 10% for each frame separately.
- The viewers have a front panel made of acid-resistant steel that can be easily disinfected.
- Attractive design makes this type of cameras significantly increase the aesthetic arrangement of each cabinet
- Designed for standing on a desk or wall mounting

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Advantages LED-NGX

- UltraSlim – only 35 mm of thickness
- Life-time span – 50 000 working hours - average 25 years
- Energy efficient – 45 % of standard power consumption
- High luminance – 6000 cd/m² (19 000 lux)
- Superior light uniformity – over 95 %
- Step-less luminance adjustment
- No flickering

Design

- The X-ray film viewer is mounted in a tough, rectangular housing made of steel sheet. It's screen in made of milky-white Plexiglas.
- The X-ray film viewer series LED-NGX can be wall-mounted, desktop or set on a mobile stand.
- In the X-ray film viewers series LED-NGX to highlight a screen modern diode array was used, whose color temperature and luminance allow viewing pictures for a long time without eye fatigue.
- The regulating knop is placed in the front panel (separately for each frame) to set desirable value of luminance during operation.
- The X-ray film is easy to place on the screen under the holder.

Technical Data

Model	LED-NGX-11	LED-NGX-21	LED-NGX-31	LED-NGX-41
Power supply	230 V ; 50Hz			
Power consumption	65 W	125W	180 W	250 W
Luminance	Adjustable from 600 to 6000 cd / m² (19 000 lux) ± 15%			
Superior light Uniformity	≥ 95 %			
Screen dimension	36 x 43 cm	72 x 43 cm	108 x 43 cm	144 x 43 cm
Class of protection against electric shock	I			
Weight	4,5 kg	8,0 kg	12,0 kg	16,0 kg
Dimensions	430x520x43 mm	795x520x35 mm	1160x520x35 mm	1520x520x35 mm

Conditions of Performing and Storing

- The acceptable environmental conditions for transport, storage and use of LED-NGX

Ambient temperature	-	+ 10°C do + 40°C
Relative humidity	-	30% do 70%
Atmospheric pressure	-	700 hPa do 1060 hPa

- The LED-NPG X-ray film viewers are intended for use inside closed areas and cannot be used outdoors or in humid areas.
- The LED-NPG X-ray film viewer is not intended to illuminate rooms and should not to be left without control when the device is turned on, especially in the present of children.

Washing, Cleaning and Disinfection

- The coated surfaces of the housing need to be washed with a sponge soaked in water and commonly used detergents.
- Do not use scouring substances as they may damage the surface.
- The Plexiglas screen needs to be washed with a sponge soaked in a substance removing static charges.
- Disinfection should be carried out with the use of disinfecting substances in accordance with local/ regional/ international regulations.

Standards and Certification

The X-ray film viewers LED-NGX are in conformity with the following standard:

- EN 60601-1 and EN 60601-1-2 (safety and EMC of medical equipment)

PRIMAX Berlin GmbH is certified according to ISO 13485 : 2016.