

Advancing NDT with Portable & Standard Radiography Film Viewers

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Abstract - Radiographic film viewers remain essential for Non-Destructive Testing (NDT) applications in industrial quality control, pipeline inspection, and weld verification. While larger units like the 4"×16" Standard LED Film Viewer dominate shop floors, the demand for compact and portable solutions has grown. This article compares and highlights the roles of two critical models now available through SmartXprokits: the Portable 2.5"×8" Film Viewer and the Standard 4"×16" Film Viewer.

Introduction

In industries such as oil & gas, power generation, automotive, and aerospace, ensuring weld integrity and detecting hidden flaws is critical. Radiography film inspection is a time-tested method, but clarity depends heavily on the quality of the film viewer. With technological advances, LED-based film viewers have replaced fluorescent models, offering higher brightness, better uniformity, and energy efficiency.

SmartXprokits introduces two models tailored for the needs of modern NDT professionals:

- Portable 2.5"×8" (200×60 mm) Film Viewer with Slider & Foot Switch
- Industrial Standard 4"×16" High-Intensity Film Viewer

Both are designed in India, supporting industrial specifications, rugged environments, and consistent performance.

Portable Radiography Film Viewer (2.5" × 8")

Product Link: <https://smartxprokits.in/portable-radiography-film-viewer-2-5-x-8-20x60-mm-with-film-slider-foot-switch-led-ndt-x-ray-viewer-rugged-housing-power-ac>

Specifications

Specification	Details
Viewing Window	2.5" × 8" (200×60 mm)
Illumination	High-Intensity LED

Film Density Capability	Up to 4.0 D
Brightness	≥100,000 cd/m ²
Controls	0–100% dimmer, On/Off, Foot Switch
Film Input	Smooth sliding plate mechanism
Power Supply	230V AC / 12V DC (field use)
Weight	≤2 kg
Housing	Rugged 3D-printed body with protective caps

Applications

- Pipeline weld inspection
- Remote field inspections
- Fabrication yard quality control
- Mobile NDT service providers

Key Benefits

- Ultra-portable (lightweight & handle-equipped)
- Dual power operation for field and workshop use
- Rugged design for industrial environments
- Affordable entry point for NDT professionals

Industrial Radiography Film Viewer (4" × 16")

Product Link: <https://smartxprokits.in/industrial-radiography-film-viewer-4-x-16-high-intensity-led-x-ray-film-viewer-for-ndt-weld-inspection-230v-ac-adjustable-brightness-up-to-4-2d-density/>

Specifications

Specification	Details
Viewing Window	4" × 16"
Illumination	High-Intensity LED backlight

Film Density Capability	Up to 4.2 D
Brightness	$\geq 120,000$ cd/m ²
Controls	Adjustable brightness (10–100%), On/Off, Foot Switch
Power Supply	230V AC
Weight	~6 kg
Housing	Powder-coated mild steel body

The Portable 2.5"×8" Film Viewer and the Standard 4"×16" Film Viewer complement each other, ensuring that NDT professionals can perform inspections both in the field and in the lab. By choosing the right model, businesses can reduce downtime, improve weld quality verification, and comply with strict industry standards.

SmartXprokits provides Made-in-India solutions tailored to the unique needs of the Indian market, with both models meeting high-performance industrial requirements.

Call to Action

Looking for the right radiography film viewer for your business?

- Explore the Portable 2.5"×8" model for field portability → <https://smartxprokits.in/portable-radiography-film-viewer-2-5-x-8-20x60-mm-with-film-slider-foot-switch-led-ndt-x-ray-viewer-rugged-housing-power-ac/>
- Check out the 4"×16" model for industry-standard lab inspections → <https://smartxprokits.in/industrial-radiography-film-viewer-4-x-16-high-intensity-led-x-ray-film-viewer-for-ndt-weld-inspection-230v-ac-adjustable-brightness-up-to-4-2d-density/>

Applications

- Weld-strip radiographs
- Laboratory and workshop inspections
- Heavy-duty industrial testing environments
- QA/QC processes in oil & gas, automotive, and power sectors

- Key Benefits**
- Widely recognized as the industry standard size in India
 - Large viewing window for weld-strip films
 - High brightness supports dense industrial films
 - Built for durability and heavy-duty use

Comparison Table

Feature	Portable 2.5"×8" Viewer	Standard 4"×16" Viewer
Viewing Window	2.5" × 8" (200×60 mm)	4" × 16"
Film Density	Up to 4.0 D	Up to 4.2 D
Brightness	$\geq 100,000$ cd/m ²	$\geq 120,000$ cd/m ²
Weight	≤ 2 kg	~6 kg
Power	230V AC / 12V DC	230V AC
Best For	Field & mobile inspections	Workshop & lab inspections

Conclusion