

KOWOLUX X

**LED Film Viewers
KOWOLUX X Series**



**Evaluation of X-ray films
with highest contrast**

KOWOLUX X Series NDT film viewers with PowerLED

KOWOLUX X viewers are designed for high-end NDT X-ray film evaluation. A durable, economically designed housing made of stainless steel contains latest series of PowerLED giving magnificent white light over the entire control range. Higher contrast helps inspection personnel to find defects and discontinuities easily without vision fatigue. A speed controlled cooling fan reduces irritating noise and a large variety of accessories simplifies handling of films. High luminance permits viewing of very dark films without damaging these.

Specification:

- Thermally cured crystal glass viewing screen with 95% translucency
- Plug-in foot switch – viewer also operable without foot switch
- Two controls for brightness, 0.2 ... 100 %
- Changeable filter in cooling air inlet
- Interchangeable attachment masks for different film sizes
- Mounting threads in side panels for KOWOSPOOL roll film loading device or densitometer holder
- Mounting threads in bottom panel for fixing viewer on desk in mobile labs

Data valid for all KOWOLUX X series

Power supply: 88 ... 264 V / 47 ... 63 Hz

Color of temperature LEDs: 5,000 K

Lifetime of LEDs: 40,000 h

KOWOLUX X3 series

Viewer for long X-ray films of weld seams. Together with KOWOSPOOL it is perfect for handling of roll films used in pipeline inspection.

Viewing screen: 450 x 80 mm (for films 10x48 cm)

Dimensions: 530 x 220 x 205 mm (WxDxH)

KOWOLUX X3eco

Article no. 13 40081

Luminance, max.: 200,000 Cd/m² *)

Film density, max.: 4.3 D **)

Rated power: 250 W

Weight: 10.7 kg

KOWOLUX X3

Article no. 13 40080

Luminance, max.: 320,000 Cd/m² *)

Film density, max.: 4.5 D **)

Rated power: 400 W

Weight: 11.8 kg

KOWOLUX X4 series

Viewer for X-ray films of weld seams.

Together with available Iris lens it is a universal tool.

Viewing screen: 225 x 80 mm (for films 10x24 cm)

Dimensions: 305 x 220 x 205 mm (WxDxH)

KOWOLUX X4eco

Article no. 13 40101

Luminance, max.: 200,000 Cd/m² *)

Film density, max.: 4.3 D **)

Rated power: 125 W

Weight: 6.8 kg

KOWOLUX X4

Artikel Nr. 13 40100

Luminance, max.: 320,000 Cd/m² *)

Film density, max.: 4.5 D **)

Rated power: 200 W

Weight: 6.9 kg



KOWOLUX X5

Article no. 13 40120

The X5 was especially designed for evaluation of X-ray films of turbine blades. But it is also perfectly suitable for images of weld seams or castings with high optical density.

Viewing screen:	150 x 110 mm (for films 13x18 cm)
Dimensions:	305 x 220 x 205 mm (WxDxH)
Luminance, max.:	630,000 Cd/m ² *)
Film density, max.:	4.8 D **)
Rated power:	300 W
Weight:	7.2 kg



KOWOLUX X6 series

Viewer for large format X-ray films with high optical density.

Viewing screen:	380 x 270 mm (for films 30x40 cm)
Dimensions:	530 x 320 x 440 mm (WxDxH)

KOWOLUX X6eco

Article no. 13 40601

Luminance, max.:	130,000 Cd/m ² *)
Film density, max.:	4.1 D **)
Rated power:	340 W
Weight:	22 kg

KOWOLUX X6

Article no. 13 40600

Luminance, max.:	200,000 Cd/m ² *)
Film density, max.:	4.3 D **)
Rated power:	500 W
Weight:	25 kg

KOWOLUX 14X17 series

Viewer for large inch format X-ray films with high optical density.

Viewing screen:	14x 17 inch (430x355 mm)
Dimensions:	530 x 320 x 440 mm (WxDxH)

KOWOLUX 14X17eco

Article no. 13 40651

Luminance, max.:	80,000 Cd/m ² *)
Film density, max.:	3.9 D **)
Rated power:	450 W
Weight:	23 kg

KOWOLUX 14X17

Article no. 13 40650

Luminance, max.:	160,000 Cd/m ² *)
Film density, max.:	4.2 D **)
Rated power:	600 W
Weight:	26 kg

KOWOLUX X7

Article no. 13 40140

The X7 is equipped with a built-in Iris lens and offers a flat surface suitable for films of every size. Even "black" spots on films can be evaluated according to standards. With a special holder it is extremely suitable for viewing "hole type films" used in heat exchanger testing.

Viewing screen:	Ø 4 ... 75 mm (IRIS)
Dimensions:	305 x 220 x 205 mm (WxDxH)
Luminance, max.:	1,100,000 Cd/m ² *)
Film density, max.:	5.0 D **)
Rated power:	230 W
Weight:	8.0 kg



*) Luminance in delivery state is approximately 10 % higher than specified

**) maximum evaluable film density according to ASTM E 1390, ISO 5580, DIN EN 25580

Scope of supply:

KOWOLUX X film viewer complete with:

- standard attachment mask
- power cord
- foot switch
- test certificate according to ASTM E 1390, ISO 5580, DIN EN 25580
- Certificate of Conformity according to ISO/IEC 17050-1



Accessories:

KOWOLUX X series

- Densitometer holder, universal 13 40087
- KOWOSPOOL spooling device for roll films 13 40088
- Spare air filter for X3 / X3eco, X6 / X6eco, 2 pack 13 40089
- Spare air filter for X4 / X4eco / X5 / X7, 2 pack 13 40109



Attachment masks for X3 / X3eco

- X3 – for films 10x48 cm 13 40091
- X3 – for films 10x40 cm 13 40092
- X3 – for films 10x24 cm 13 40093
- X3 – for films 7x48 cm 13 40094
- X3 – for films 6x48 cm 13 40095
- X3 – for films 6x40 cm 13 40096
- X3 – for films 6x24 cm 13 40097
- X3 – hole Ø 30 mm, magnetic stop 13 40098
- X3 – IRIS Ø 4 ... 75 mm 13 40099
- X3 – slit 3 cm, magnetic stop and cover strips 13 40116

Attachment masks for X4 / X4eco

- X4 – for films 10x24 cm 13 40111
- X4 – for films 6x24 cm 13 40112
- X4 – for films 10x48 cm 13 40113
- X4 – for films 6x48 cm 13 40114
- X4 – slit 3 cm, magnetic stop and cover strips 13 40117
- X4 – hole Ø 30 mm, magnetic stop 13 40118
- X4 – IRIS Ø 4 ... 75 mm 13 40119

Attachment masks for X5

- X5 – for films 13x18 cm 13 40131
- X5 – for films 10x24 cm 13 40132
- X5 – for films 6x24 cm 13 40133
- X5 – hole Ø 30 mm, magnetic stop 13 40138

More masks for special applications upon request.

Attachment masks for X6 / X6eco

- X6 – for films 30x40 cm 13 40611
- X6 – for films 24x30 cm 13 40612
- X6 – for films 18x24 cm 13 40613
- X6 – for films 10x48 cm 13 40614
- X6 – for films 10x24 cm 13 40615

Attachment masks for 14X17 / 14X17eco

- 14X17 – for films 14x17 inch 13 40661
- 14X17 – for films 7x17 inch 13 40662
- 14X17 – for films 8x10 inch 13 40663
- 14X17 – for films 5x7 inch 13 40664

Attachment masks for X7

- X7 – Ø 82 mm, magnetic stop 13 40147
- X7 – for hole type films, special 13 40148



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