

KOWOLUX X

KOWOLUX X

NDT Film viewers for X-ray films

according to ISO 5580, ASTM E1390



For evaluation of NDT X-ray films
with highest contrast

KOWOLUX X-series LED film viewer for NDT X-ray films

The 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 PowerLEDs providing magnificent white light over the entire control range. High luminance and contrast helps inspection personnel to find imperfections and discontinuities easily without vision fatigue. A speed controlled cooling fan reduces irritating noise and a large variety of accessories simplifies handling of films.

KOWOLUX X-series

Viewers with plug-in foot switch (operable with no foot switch connected), an attachable masks system and mounting threads for accessories and fixing.

Specification:

Housing :	stainless steel	Screen glass:	thermally cured, transluence 95%
Uniformity factor:	$g > 0.8$	Divergence factor:	$\sigma' > 0.9$
Color temperature:	5,000 K	Lifetime of LEDs:	> 40,000 h
Brightness control:	2 - with and without footswitch	Control range:	< 0.5 ... 100%
Power supply:	88 ... 264 V / 47 ... 63 Hz		

KOWOLUX X3-series

Viewers for long weld seam X-ray films. Together with KOWOSPOOL spooling device it is perfect for handling of roll format films.

KOWOLUX X3eco

Viewing area:	80 x 450 mm for films 10x48 cm
Luminance/ Density:	200,000 cd/m ² - D 4.30
Rated power:	210 W
Dimensions/ Weight:	530 x 220 x 205 mm - 10.1 kg

Article No.: 13 40081



KOWOLUX X3

Viewing area:	80 x 450 mm for films 10x48 cm
Luminance/ Density:	320,000 cd/m ² - D 4.50
Rated power:	300 W
Dimensions/ Weight:	530 x 220 x 205 mm - 10.2 kg

Article No.: 13 40080



KOWOLUX X4-series

Viewers for standard weld seam X-ray films. Together with the IRIS lens it is an universal tool for X-ray film evaluation.

KOWOLUX X4eco

Viewing area:	80 x 225 mm for films 10x24 cm
Luminance/ Density:	200,000 cd/m ² - D 4.30
Rated power:	110 W
Dimensions/ Weight:	305 x 220 x 205 mm - 6.4 kg

Article No.: 13 40101



KOWOLUX X4

Viewing area:	80 x 225 mm for films 10x24 cm
Luminance/ Density:	320,000 cd/m ² - D 4.50
Rated power:	150 W
Dimensions/ Weight:	305 x 220 x 205 mm - 6.6 kg

Article No.: 13 40100



KOWOLUX X5

Viewer especially designed for evaluation of turbine blade X-ray films. Also perfectly suitable for all X-ray films with very high optical density.

Viewing area:	110 x 150 mm for films 13x18 cm
Luminance/ Density:	630,000 cd/m ² - D 4.80
Rated power:	200 W
Dimensions/ Weight:	305 x 220 x 205 mm - 6.7 kg

Article No.: 13 40120



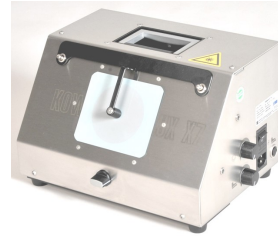
KOWOLUX X7 / X8

Viewer especially designed for evaluation of turbine blade X-ray films.
Also perfectly suitable for all X-ray films with very high optical density.

KOWOLUX X7

Viewing area: Ø 4 ... 75 mm IRIS lens - universal
Luminance/ Density: 1,100,000 cd/m² - D 5.00
Rated power: 110 W
Dimensions/ Weight: 305 x 220 x 205 mm - 7.1 kg

Article No.: 13 40140



KOWOLUX X8

Viewing area: Ø 6 ... 113 mm IRIS lens - universal
Luminance/ Density: 650,000 cd/m² - D 4.80
Rated power: 190 W
Dimensions/ Weight: 305 x 220 x 205 mm - 7.5 kg

Article No.: 13 40780



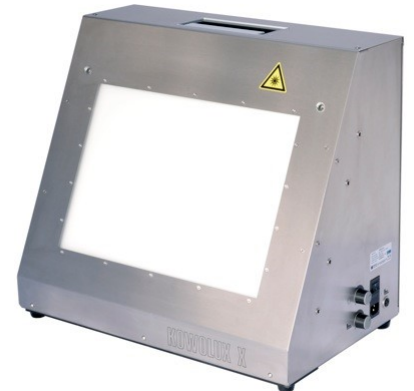
KOWOLUX X6 / 14X17-series

Viewers for large format X-ray films with high optical density.
Alternative to the KOWOLUX LX-series viewers.

KOWOLUX X6eco

Viewing area: 270 x 390 mm for films 30x40 cm
Luminance/ Density: 130,000 cd/m² - D 4.10
Rated power: 310 W
Dimensions/ Weight: 530 x 320 x 440 mm - 22.0 kg

Article No.: 13 40601



KOWOLUX X6

Viewing area: 270 x 390 mm for films 30x40 cm
Luminance/ Density: 200,000 cd/m² - D 4.30
Rated power: 450 W
Dimensions/ Weight: 530 x 320 x 440 mm - 25.0 kg

Article No.: 13 40600

KOWOLUX 14X17eco

Viewing area: 355 x 430 mm for films 14x17 inch
Luminance/ Density: 100,000 cd/m² - D 4.00
Rated power: 340 W
Dimensions/ Weight: 530 x 320 x 440 mm - 23.0 kg

Article No.: 13 40651



KOWOLUX 14X17

Viewing area: 355 x 430 mm for films 14x17 inch
Luminance/ Density: 160,000 cd/m² - D 4.20
Rated power: 500 W
Dimensions/ Weight: 530 x 320 x 440 mm - 26.0 kg

Article No.: 13 40650



Scope of supply:

KOWOLUX X Film viewer complete with:
Attachable mask, standard size
Foot switch, power supply cable
Spare filter and fuses
Test Certificate, Certificate of Conformity

Accessories:

Densitometer holder, universal

Article No.: 13 40087

KOWOSPPOOL spooling device for roll films

Article No.: 13 40088

X/ LX Foot Switch with Cable and Plug, spare

Article No.: 13 40086

Air inlet filter for X3-, X6-, 14X17-series, spare

Article No.: 13 40089

Air inlet filter for X4-, X5-, X7, X8-series, spare

Article No.: 13 40109

Air outlet filter for X-, LX-series, spare

Article No.: 13 40090



X3-series attachable masks:

10x48 cm Article No.: 13 40091

10x40 cm Article No.: 13 40092

10x24 cm Article No.: 13 40093

7x48 cm Article No.: 13 40094

6x48 cm Article No.: 13 40095

6x40 cm Article No.: 13 40096

6x24 cm Article No.: 13 40097

Slit, 3 cm, with magnetic stop and cover strips, universal

Article No.: 13 40098

IRIS lens, Ø 4 ... 75 mm, universal

Article No.: 13 40099

X3 Densitometer Measuring Mask, magnetic, 10x48 cm, Ø 10 mm

Article No.: 13 40084



X4-series attachable masks:

10x24 cm Article No.: 13 40111

6x24 cm Article No.: 13 40112

10x48 cm Article No.: 13 40113

6x48 cm Article No.: 13 40114

Slit type, 3 cm, with magnetic stop and cover strips, universal, long

Article No.: 13 40116

Slit type, 3 cm, with magnetic stop and cover strips, universal, short

Article No.: 13 40117

Hole type, 3 cm, with magnetic stop, universal

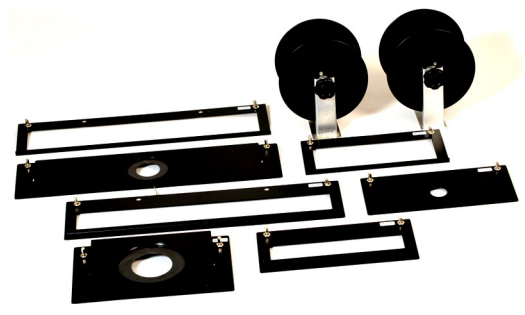
Article No.: 13 40118

IRIS lens, Ø 4 ... 75 mm, universal

Article No.: 13 40119

X4 Densitometer Measuring Mask, magnetic, 10x24 cm, Ø 10 mm

Article No.: 13 40104



X5 attachable masks:

13x18 cm Article No.: 13 40131

10x24 cm Article No.: 13 40132

6x24 cm Article No.: 13 40133

Hole type, 3 cm, with magnetic stop, universal

Article No.: 13 40138

IRIS lens, Ø 6 ... 113 mm, universal

Article No.: 13 40139



X7 attachable masks:

13x18 cm Article No.: 13 40131

10x24 cm Article No.: 13 40132

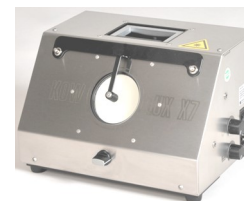
6x24 cm Article No.: 13 40133

Hole type, 82 mm, with magnetic stop, universal

Article No.: 13 40147

Special for hole type films, universal

Article No.: 13 40148



X8 attachable masks:

13x18 cm Article No.: 13 40131

10x24 cm Article No.: 13 40132

6x24 cm Article No.: 13 40133

Hole type, 115 mm, with magnetic stop, universal

Article No.: 13 40781

Special for hole type films, universal

Article No.: 13 40148

X6-series attachable masks:

30x40 cm / 12x15 inch

Article No.: 13 40611

24x30 cm / 10x12 inch

Article No.: 13 40612

18x24 cm / 7x10 inch

Article No.: 13 40613

10x40/48cm / 4x15 inch

Article No.: 13 40614

10x24 cm

Article No.: 13 40615

14X17-series attachable masks:

14x17 inch / 35x43 cm

Article No.: 13 40661

7x17 inch / 18x43 cm

Article No.: 13 40662

8x10 inch / 20x25 cm

Article No.: 13 40663

5x 7 inch / 13x18 cm

Article No.: 13 40664

12x15 inch / 30x40 cm

Article No.: 13 40665

10x12 inch / 24x30 cm

Article No.: 13 40666

7x10 inch / 18x24 cm

Article No.: 13 40667

4x15 inch / 10x40/48 cm

Article No.: 13 40668

