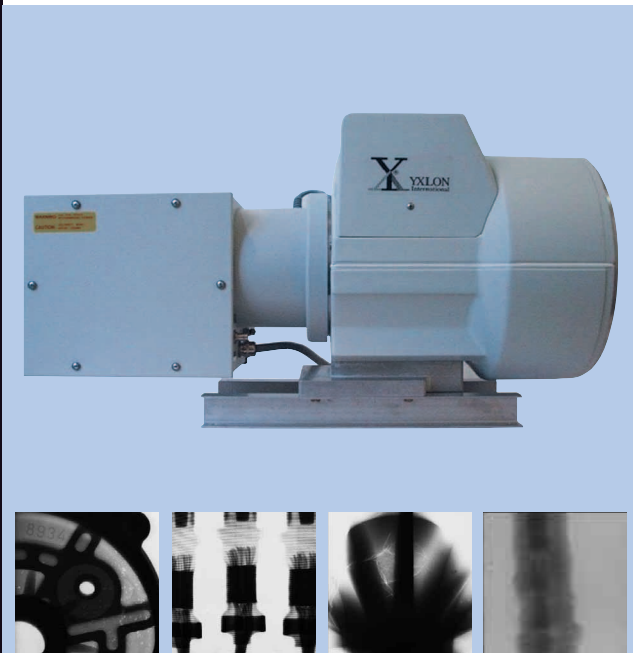


Y.XRS153, Y.XRS233, Y.XRS303

Industrial grade image intensifier systems



YXLON's XRS153, XRS233 and XRS303 industrial grade image intensifier systems are designed specifically for the demanding non-destructive testing environment. They can be used in many different applications.

High resolution and excellent contrast latitude are realized in three different display formats (XRS153: two) that enable the operator to distinguish image information more clearly. The overall performance of these systems remains constant over a wide range of voltages – up to 450 kV! Innovations like the use of non-browning output glass (XRS233 and XRS303) assure consistent results and prolonged operating life. All these factors combine to produce low-noise images of the highest quality.

YXLON International models XRS153, XRS233 and XRS303 consist of an image intensifier tube, high-resolution CCD camera and a control panel.

YXLON. The reason why.

- fast testing decision due to highest quality images
- extended life with non-browning output glass
- space saving due to compact, modular construction



XRS153 XRS233 XRS303

General Data

Comprising Image Intensifier unit, control panel FS with main switch, format switch, 15 m connection cables

Allowable X-ray voltage 20 kV - 450 kV
 Videosignal transfer Via double shielded coaxial cables

Image Intensifier Tube	Type 6"	Type 9"	Type 12"
Input screen, nominal	15 cm	23 cm	31 cm,
	2-fold switchable	3-fold switchable	3-fold switchable
Usable input screen ¹	145 / 105 mm switchable	215 / 160 / 120 mm switchable	290 / 215 / 160 mm switchable
Resolution (Lp/cm) ^{1,2}	75 / 90	54 / 62 / 70	48 / 54 / 62
Integral Distortion ¹	3%	4% / 3% / 2%	8% / 5% / 3%

Camera 1/2" CCD
 Lens (manual zoom)³ 1:1.0 / 8 - 48 mm
 Video Standards CCIR (optional EIA)

Dimensions

Image Intensifier Unit	XRS153	XRS233	XRS303
- Overall dimensions (l x w x h, mm)	600 x 210 x 270	690 x 300 x 350	800 x 400 x 400
- Weight	ca. 21 kg	ca. 30 kg	ca. 50 kg

Control Panel FS (Format Switch)	XRS153/233	XRS303
	19", 3HE	
Overall dimensions (l x w x h, mm)	485 x 135 x 100	
- Overall dimensions including housing (l x w x h, mm)	520 x 400 x 160	
- Weight including housing	3 kg	

Options

- Desk housing for Control Unit	•	•	•
- X-ray protection housing (max. 160 kV)	•	•	•
- Control Panel FS-MDC and diaphragm control (on tube side)	•	•	•
- Control Panel FS-MDC-Z (like FS-MDC plus Motor zoom)	•	•	•
- Video monitor DISPLAY/1712	•	•	•
- Housing for DISPLAY/1712	•	•	•

Further options on request

¹Acc. IEC 1262, typical values

²Limiting visual resolution measured with microscope at the output screen directly

³Settings (diaphragm/distance/focus) secured by fixing screws

Options

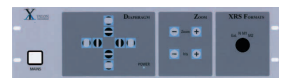
Control Panel FS (Formatswitch)



Control Panel FS - MDC (FS + Diaphragm Control)

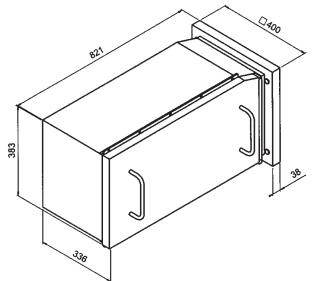


Control Panel F - MDC - Z (FS - MDC + Motor zoom-Control)



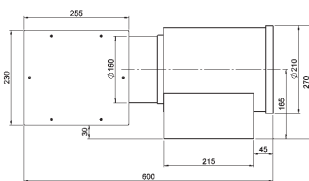
X-ray protection housing XRS-LH153/233; up to 160 kV, 3 kW

Will be delivered integrated with XRS153/233.

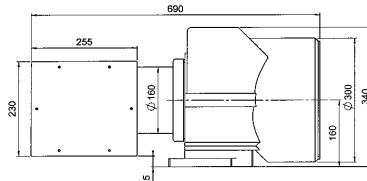


Weight XRS-LH153/233 incl.
 XRS153: approx. 115 kg
 XRS233: approx. 125 kg

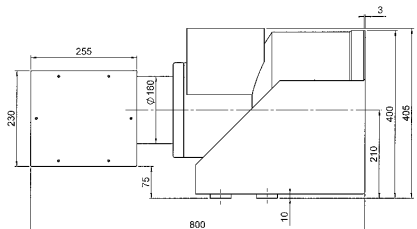
XRS153



XRS233



XRS303



Warning!

If the XRS is used as replacement for an image intensifier with integrated X-ray protection (e.g. PRS236), the replacement has to be indicated to the local authorities. According to the respective X-ray protection regulations, acceptance procedure has to be done.