

Radioflex

Portable Industrial X-ray Inspection Apparatus

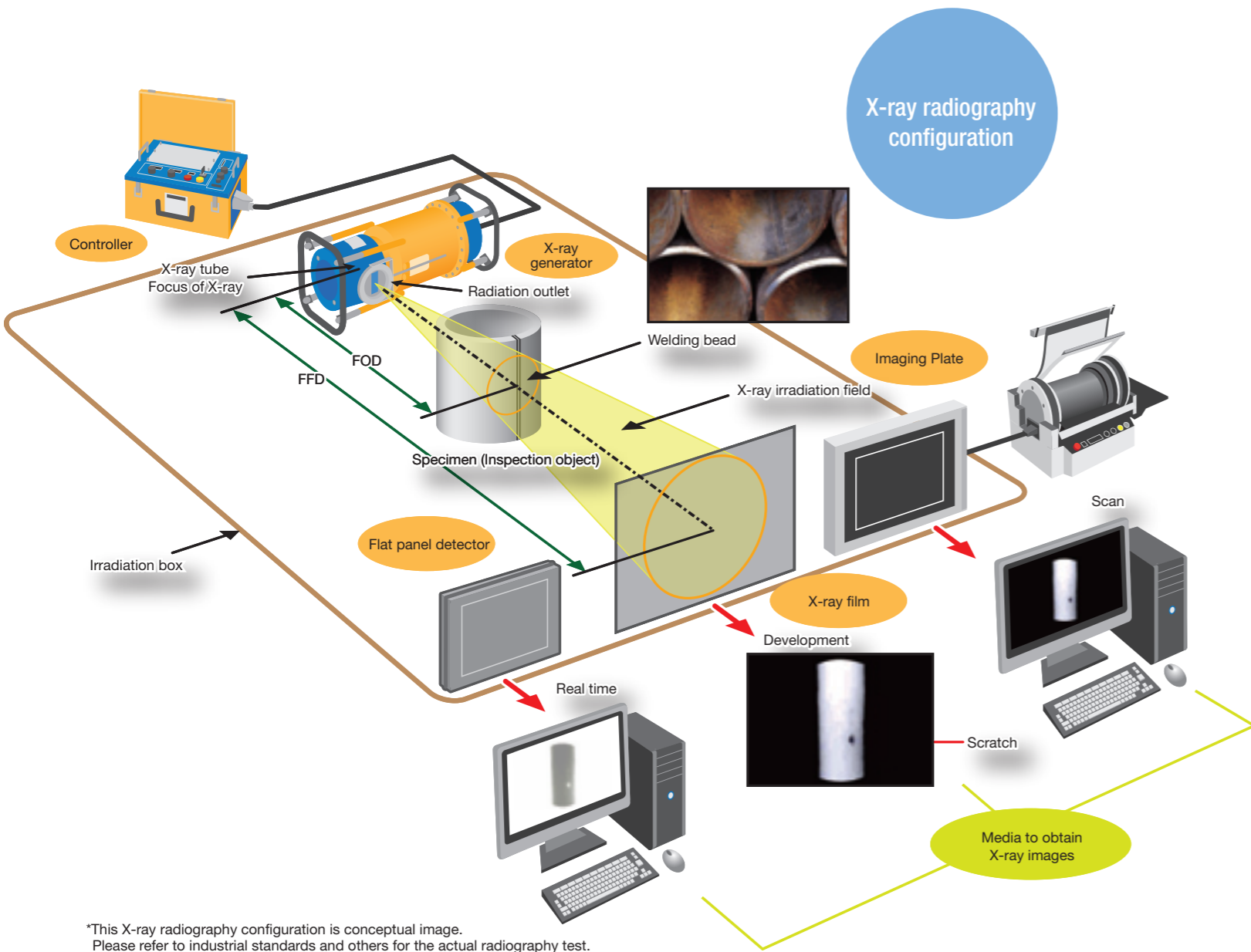


New feature of X-ray imaging environment with enhanced operationality and safety

Radioflex

"Radioflex" series are the most reliable portable X-ray inspection apparatus. We meet your various needs of non-destructive inspection, such as inspections of pipes at various plant, building maintenance, cement core at building, welding of light alloy and connection of synthetic resin.

X-ray radiography configuration



*This X-ray radiography configuration is conceptual image. Please refer to industrial standards and others for the actual radiography test.

Simple operation based on direct settings*

The rotary encoder setting for X-ray tube voltage and exposure time enables easy adjustment of optimal exposure condition.

*RF-EGM2 Series, RF-300M2F

Reduced operating time with optimum aging mode*

Automatic aging mode will start when 8 hours have passed after the last stop. Unnecessary aging times are eliminated because the current kV setting is used for the aging.

*RF-EGM2 Series: Max voltage is used for automatic aging when stop period exceeds 30 days.

Power-saving mode enables use in limited-power environments*

New feature enables switch from standard-power (STD) to power-saving mode (LOW) when power supply capacity is limited.

*RF-EGM2 Series

Safe operation assured by a variety of safety functions

Various safety functions provide inspections with reassurance.

- Safety key-switch
- Interlock mechanism
- Buzzer alarm function

System configuration

X-ray generator, controller, accessories, remote controller (with 20m cable) Please refer to page 6 for the details of accessories.

*RF-EGM2 series



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Radioflex **RF-EGM2** Series

RF-EGM2 is the best X-ray solution for field testing because of its excellent operability and robustness.



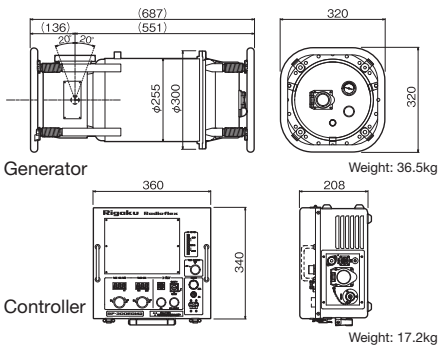
Robustness,
Easy operation



Various selections from
tube voltage among
100kV-300kV

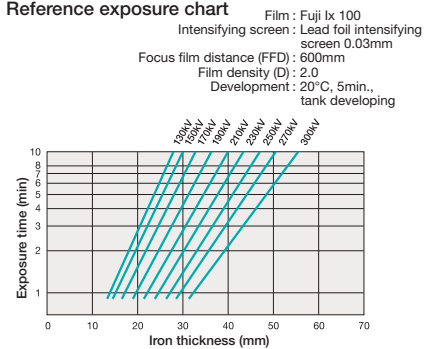
RF-300EGM2

Unit: mm



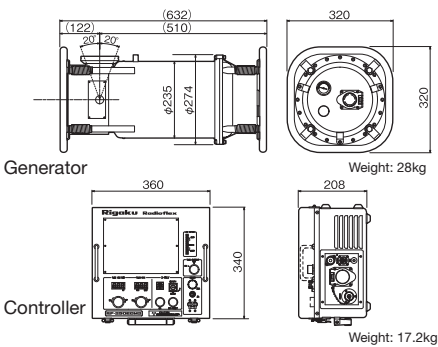
Tube Voltage	130-300kV in steps of 2kV
Tube Current	(STD mode) 5mA (at 160kV or more) (LOW mode) ≐ 4mA (at 160kV or more)
Duty cycle	100% (10min. -10°C to +45°C)
X-ray tube	Ceramic X-ray tube Focal spot size (nominal) 2.5mm×2.5mm
Inherent filter	Aluminum 2mm + Beryllium 1mm
Dimensions	Generator 320(W)×320(D)×687(H)mm
	Controller 360(W)×340(D)×208(H)mm
Weight	Generator 36.5kg
	Controller 17.2kg
Power supply	Single phase AC 190V-240V 50/60Hz
Power consumption	(STD mode) 4.1kVA (LOW mode) 3.0kVA
Generator insulation	SF6 insulation gas
Generator cooling	Forced air cooling by radiator

Reference exposure chart



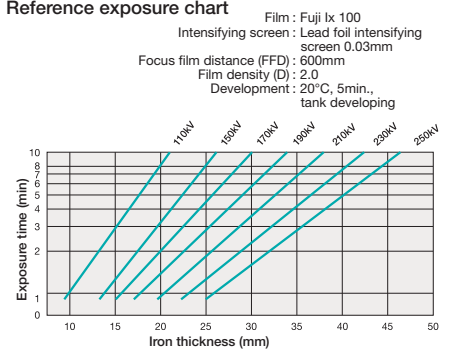
RF-250EGM2

Unit: mm



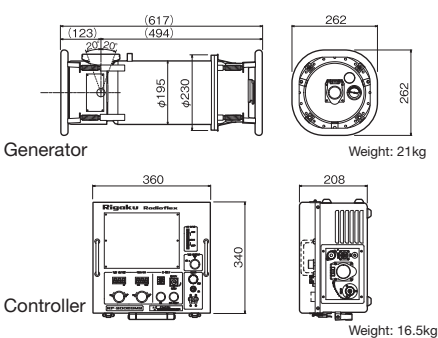
Tube Voltage	110-250kV in steps of 2kV
Tube Current	(STD mode) 5mA (at 140kV or more) (LOW mode) ≐ 4mA (at 140kV or more)
Duty cycle	100% (10min. -10°C to +45°C)
X-ray tube	Ceramic X-ray tube Focal spot size (nominal) 2.0mm×2.0mm
Inherent filter	Aluminum 2mm + Beryllium 1mm
Dimensions	Generator 320(W)×320(D)×632(H)mm
	Controller 360(W)×340(D)×208(H)mm
Weight	Generator 28.0kg
	Controller 17.2kg
Power supply	Single phase AC 190V-240V 50/60Hz
Power consumption	(STD mode) 3.7kVA (LOW mode) 2.8kVA
Generator insulation	SF6 insulation gas
Generator cooling	Forced air cooling by radiator

Reference exposure chart



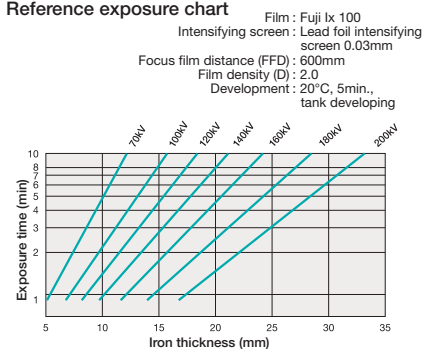
RF-200EGM2

Unit: mm

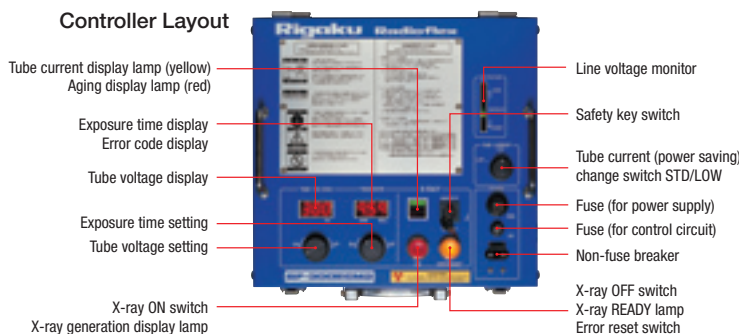


Tube Voltage	70-200kV in steps of 2kV
Tube Current	(STD mode) 5mA (at 90kV or more) (LOW mode) ≐ 4mA (at 90kV or more)
Duty cycle	100% (10min. -10°C to +45°C)
X-ray tube	Ceramic X-ray tube Focal spot size (nominal) 2.0mm×2.0mm
Inherent filter	Aluminum 2mm + Beryllium 1mm
Dimensions	Generator 262(W)×262(D)×617(H)mm
	Controller 360(W)×340(D)×208(H)mm
Weight	Generator 21.0kg
	Controller 16.5kg
Power supply	Single phase AC 190V-240V 50/60Hz
Power consumption	(STD mode) 3.1kVA (LOW mode) 2.4kVA
Generator insulation	SF6 insulation gas
Generator cooling	Forced air cooling by radiator

Reference exposure chart



Controller Layout

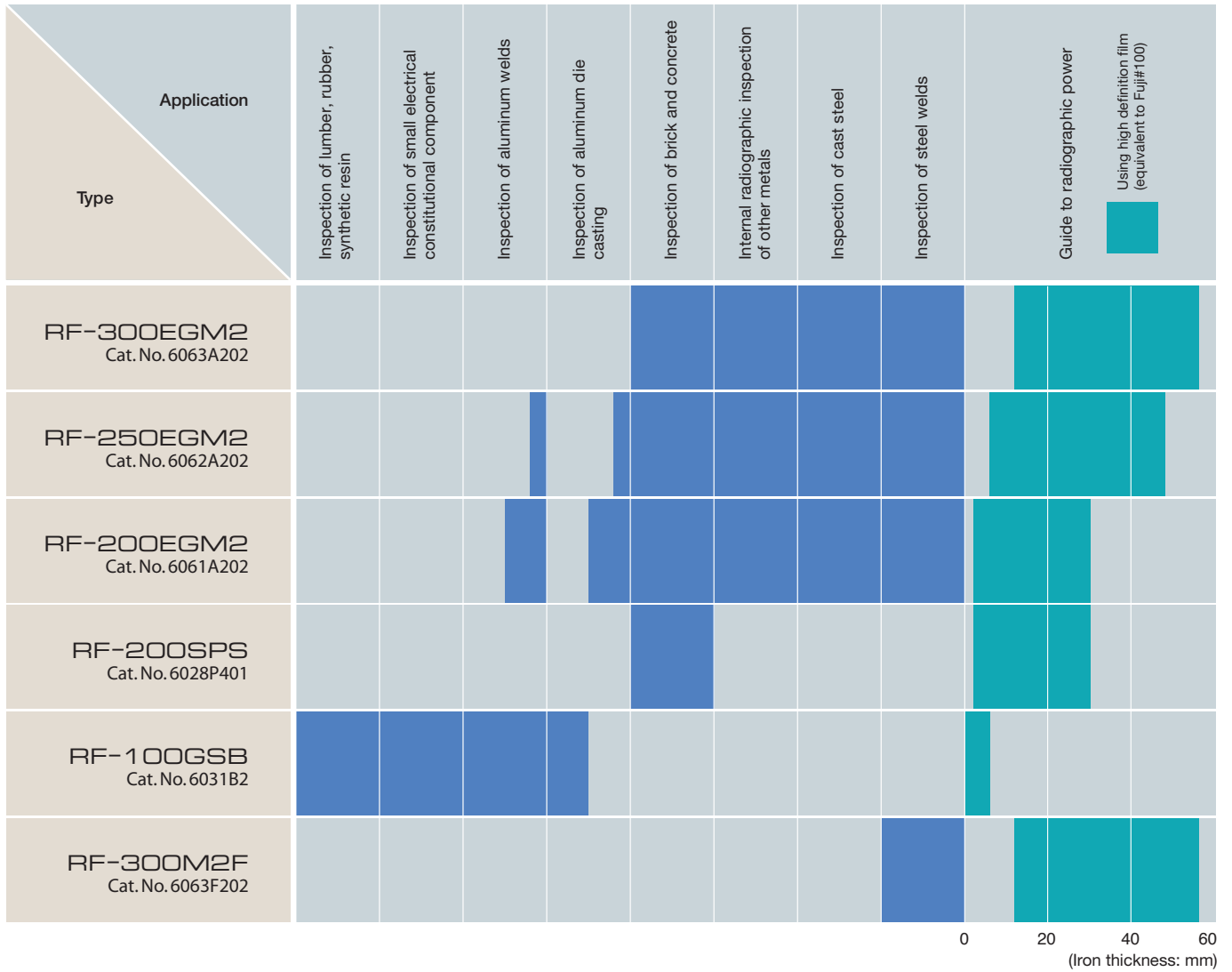


Main Functions/Specifications of Controller

Function	Specification
Timer display (Error display)	<ul style="list-style-type: none"> Digital: 1 sec, -9 mins. 59 secs. (1-second steps) Error code displayed when error occurs Waiting time displayed when X-ray generation halted (optional)
Auto-aging	<ul style="list-style-type: none"> Required aging time: Automatic setting for long and short halt
Safety circuits	<ul style="list-style-type: none"> Safety key switch Output terminal for door interlock Output terminal for X-ray generation warning Pre-warning buzzer function before X-ray generation (optional)
Power saving mode	<ul style="list-style-type: none"> Tube current selection switch (STD mode, LOW mode)
Others	<ul style="list-style-type: none"> Time-up buzzer Line voltage monitor Remote controller (optional)

Radioflex

Application of each model



- The numeric values of performance indicated in this brochure are based on the test results at Rigaku. Rigaku does not warrant that the identical values can always be obtained regardless of different operational environments.
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Specations subject to change without notice.



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