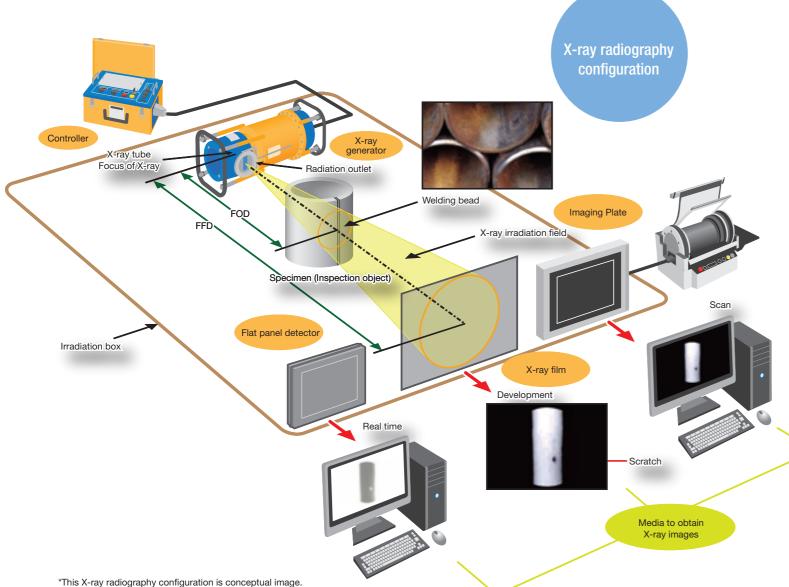




Portable Industrial X-ray Inspection Apparatus

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



Please refer to industrial standards and others for the actual radiography test.

"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.

Simple operation based on direct settings*

The rotary encoder setting for X-ray tube voltage and exposure time enables easy adjuustment of opitimal exposure condition. *RF-EGM2 Series, RF-300M2F

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

System configuration

X-rav generato

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

*RF-EGM2 series

X-rav generation indication lamp

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

Safe operation assured by a variety of safety functions

Various safety functions provide inspections with reassurance.

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



Remote controller

Portable Industrial X-ray Inspection Apparatus

Radioflex

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

> Focus on fields

> > Robustness,

Easy operation

Reference exposure chart

time (min)

Exposure

power Various selections from tube voltage among 100kV-300kV

osure chart Film : Fuji lx 100 Intensifying screen : Lead foli intensifying screen 0.03mm Focus film distance (FFD): 600mm Film density (D) : 2.0 Development : 20°C, 5min., tank developing

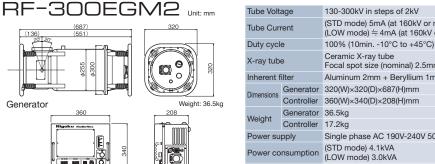
60

Low

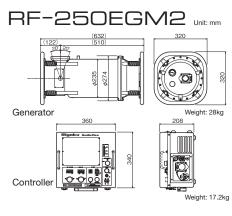
to

High

Series



Weight: 17.2kg

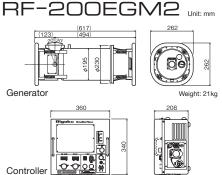


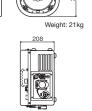
Generator

Controller

360

E





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% (10min10°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						

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% (10min10°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						

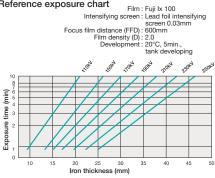
Tube Voltage 70-200kV in steps of 2kV (STD mode) 5mA (at 90kV or more) Tube Current (LOW mode) = 4mA (at 90kV or more) 100% (10min. -10°C to +45°C) Duty cycle Ceramic X-ray tube Focal spot size (nominal) 2.0mm×2.0mm X-ray tube Inherent filter Aluminum 2mm + Bervllium 1mm Generator 262(W)×262(D)×617(H)mm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

> Т (

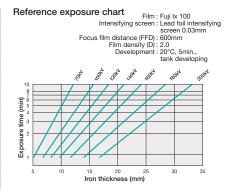
> > r

C

Reference exposure chart



Iron thickness (mm)



Main Functions/Specifications of Controller

Function	Specification
īmer display Error display)	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	•Required aging time: Automatic setting for long and short halt
Safety circuits	•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 node	•Tube current selection switch (STD mode, LOW mode)
Others	•Time-up buzzer •Line voltage monitor •Remote controller (optional)

Tube current display lamp (yellow)

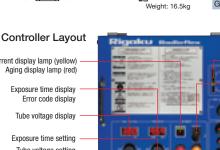
Aging display lamp (red)

Exposure time display Error code display

Tube voltage display

Exposure time setting Tube voltage setting

X-ray ON switch X-ray generation display lamp



 Line voltage monitor
 Safety key switch
 Tube current (power saving) change switch STD/LOW
 Fuse (for power supply)
 Fuse (for control circuit)
 Non-fuse breaker
 X-ray OFF switch X-ray READY lamp Error reset switch



Application of each model

Application Type	Inspection of lumber, rubber, synthetic resin	Inspection of small electrical constitutional component	Inspection of aluminum welds	Inspection of aluminum die casting	Inspection of brick and concrete	Internal radiographic inspection of other metals	Inspection of cast steel	Inspection of steel welds	Guide to radiographic power	Using high definition film (equivalent to Fuji#100)
RF-300EGM2 Cat. No. 6063A202										
RF-250EGM2 Cat. No. 6062A202										
RF-200EGM2 Cat. No. 6061A202										
RF-200SPS Cat. No. 6028P401										
RF-100GSB Cat. No. 6031B2										
RF-300M2F Cat. No. 6063F202										
0 20 40 60 (Iron thickness: mm)										

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.
Company names and product names in this catalog are trademarks of the companies and/or registered trademarks.

Spections subject to change without notice.

Rigaku Corporation

www.Rigaku.com

3-9-12, Matsubara-cho, Akishima-shi, Tokyo 196-8666, Japan Phone:+81-42-545-8167 Fax:+81-42-545-3226 e-mail:ndt-ks@rigaku.co.jp



Rigaku is proudly represented in Australia and New Zealand by AXT Pty. Ltd. 1/3 Vuko Pl., Warriewood NSW 2102 Australia T. +61 (0)2 9450 1359 F. +61 (0)2 9450 1365 W. www.axt.com.au E. info@axt.com.au