OPTIONS

- DIP 32 - digital memory for 32 images + L.I.H. with 2 monitor (“S” Model)
- DIP 64 - digital memory for 64 images + L.I.H. with 2 monitor (“S” Model)
- DIP 240 - digital memory for 192 images (“R” Model)
- DIP 240 HD / A - digital memory for 48,600 images (“R” Model)

DICOM 3 Compatible (only for Memory DIP series)

Monochrome LCD monitor 18”, 1280x1024 pixels - 10 bits

Laser collimator

Patient dose monitoring

Thermal printer

The monitor trolley, equipped with blocking brake wheels, contains the general power supply for all Radius devices, with a proper key switch. In the trolley can be installed the memories, Dim and Dip series, and on request one thermal printer. It may be furnished in the versions for one monitor (base with L.I.H.) or for two monitors.

1) Laser Localizer activation
2) Alarm signal
3) X-Ray emission signal
4) C-arm raising
5) C-arm lowering
6) Blade diaphragm clockwise rotation
7) Blade diaphragm counterclockwise rotation
8) Blade diaphragm opening
9) Blade diaphragm closing
10) Iris diaphragm opening
11) Iris diaphragm closing
12) Image counterclockwise rotation
13) Image clockwise rotation
14) Image horizontal inversion
15) Image vertical inversion
16) 1st Image Intensifier magnification
17) 2nd Image Intensifier magnification
18) Selected image storage or LIH
19) Recursive filter selection
20) Image search-back
21) Image search-forward
22) Reset dose
23) Switching the stand on
24) Switching the stand off
25) Increase kV (up)-Decrease kV (down)
26) Increase mA/mAs-Decrease mA/mAs
27) Automatic/manual Fluoroscopy
28) Intermittent continuous Fluoroscopy
29) Fluoroscopy time reset
30) Fluoroscopy time alarm reset
31) High Contrast Pulsed Fluorography (HCF)
32) kV % Increase in fluorography and D.S.A.
33) Dose reduction (in continuous fluoroscopy only)
34) Selected image storage or LIH

Version with 7” image intensifier, two fields: 7”-5”.
Grid 103 L:”, R 8:1, D.F. 90 cm, D. 170 mm.

Version with 9” image intensifier, three fields: 9”-6”-4”.
Grid 103 L:”, R 8:1, D.F. 90 cm, D. 250 mm.

The Radius unit may be equipped, on request, for all versions, with a laser collimator, installed with the X-ray generator.

Version with 12” image intensifier, three fields: 12”-9”-6”.
Grid 103, R 8:1, D.F. 90 cm, D. 335 mm.

Version with 40 kHz X-ray generator, with stationary anode tube 110 kV, foci 0,6 - 1,5.

On all the unit wheels an efficient system is applied, against the squashing of the electric cables present on the floor.

Version with 40 kHz X-ray generator, with rotating anode tube 120 kV, foci 0,3 - 0,6.
OPTIONS

DIM 32 - digital memory for 32 images + L.I.H. with 2 monitor ("S" Model)

DIM 64 - digital memory for 64 images + L.I.H. with 2 monitor ("S" Model)

DIP 240 S – digital memory for 192 images ("R" Model)

DIP 240 HD / A – digital memory for 48,600 images ("R" Model)

DICOM 3 Compatible (only for Memory DIP series)

Monochrome LCD monitor 18", 1280x1024 pixels - 10 bits

Laser collimator

Patient dose monitoring

Thermal printer

The monitor trolley, equipped with blocking brake wheels, contains the general power supply for all Radius devices, with a proper key switch. In the trolley can be installed the memories, Dim and Dip series, and on request one thermal printer. It may be furnished in the versions for one monitor (base with L.I.H.) or for two monitors.

1) Laser Localizer activation
2) Alarm signal
3) X-Ray emission signal
4) C-arm raising
5) C-arm lowering
6) Blade diaphragm clockwise rotation
7) Blade diaphragm counterclockwise rotation
8) Blade diaphragm opening
9) Blade diaphragm closing
10) Iris diaphragm opening
11) Iris diaphragm closing
12) Image counterclockwise rotation
13) Image clockwise rotation
14) Image horizontal inversion
15) Image vertical inversion
16) 1st Image Intensifier magnification
17) 2nd Image Intensifier magnification
18) Selected image storage or LIH
19) Recursive filter selection
20) Image search-back
21) Image search-forward
22) Reset dose
23) Switching the stand on
24) Switching the stand off
25) Increase kV (up)-Decrease kV (down)
26) Increase mA/mAs-Decrease mA/mAs
27) Automatic/manual Fluoroscopy
28) Intermittent continuous Fluoroscopy
29) Fluoroscopy time reset
30) Fluoroscopy time alarm reset
31) High Contrast Pulsed Fluorography (HCF)
32) kV % Increase in fluorography and D.S.A.
33) Dose reduction (in continuous fluoroscopy only)

The Radius unit may be equipped, on request, for all versions, with a laser collimator, installed with the X-ray generator.

Version with 7" image intensifier, two fields: 7"-5". Grid 103 L/", R 8:1, D.F. 90 cm, D. 170 mm.

Version with 9" image intensifier, three fields: 9"-6"-4". Grid 103 L/", R 8:1, D.F. 90 cm, D. 250 mm.

Version with 12" image intensifier, three fields: 12"-9"-6". Grid 103, R 8:1, D.F. 90 cm, D. 335 mm.

Version with 40 kHz X-ray generator, with stationary anode tube 110 kV , foci 0,6 - 1,5.

On all the unit wheels an efficient system is applied, against the squashing of the electric cables present on the floor.

Version with 40 kHz X-ray generator, with rotating anode tube 120 kV , foci 0,3 - 0,6.

Radius S-R

Facchinetti Forlani

0051
270° for each side arm rotation, with manual brake for blocking.

115° (90°+25°) C-arm orbital movement, with manual brake for blocking.

C-arm depth: 668 mm ("R9"), X-ray generator-Image intensifier distance: 722 mm, X-ray source-Image intensifier distance: 922 mm ("R9").

450 mm C-arm vertical movement, motorised and controlled by console (380 mm in the 12" version).

210 mm horizontal C-arm run, with manual brake for blocking.

12° per each side C-arm swivelling with manual brake for blocking. (8° + 8° in the 12" version).

6 MODELS

RADIUS S-7
Unit with 7" (7"-5") image intensifier and 40 kHz X-ray generator, 110 kV, stationary anode

RADIUS R-7
Unit with 7" (7"-5") image intensifier and 40 kHz X-ray generator, 120 kV, rotating anode

RADIUS S-9
Unit with 9" (9"-6"-4") image intensifier and 40 kHz X-ray generator, 110 kV, stationary anode

RADIUS R-9
Unit with 9" (9"-6"-4") image intensifier and 40 kHz X-ray generator, 120 kV, rotating anode

RADIUS S-12
Unit with 12" (12"-9"-6") image intensifier and 40 kHz X-ray generator, 110 kV, stationary anode

RADIUS R-12
Unit with 12" (12"-9"-6") image intensifier and 40 kHz X-ray generator, 120 kV, rotating anode

On the Radius units a high definition TV system is installed, dedicated to medical applications. Low persistence TV camera, motorized rotation, CCD 1/2" sensor, 100 Hz video output (120 Hz – 60 Hz), 625 L (525 L – 60 Hz), scan ratio 4:3, last image hold on the TV work monitor. High contrast and high resolution Monitor TV 17", flat screen, 100 Hz flickerfree (120 Hz – 60 Hz), 625 L (525 L – 60 Hz).

The TV camera is supported by an automatic contrast control system (ABC).

All the Radius units are furnished with: radiography hand switch, fluoroscopy pedal, 24x30 cassette holder (35x35 in the 12" version), blades and iris motorized collimator, sterile drapes, trolley for monitor.

The Radius unit, in all its versions, may be equipped, on request, with patient dose monitoring. The dose, absorbed by the patient, is indicated on the control panel display or on the TV Monitor, according to the unit configuration.

The unit is managed by an easy using control panel, with two liquid crystal displays, and by a high reliability electronic system, controlled by microprocessor.

X-Ray System 3.5kW
"S"
Monoblock with stationary anode X-ray tube, foci 0.6-1.5 mm. High frequency X-ray generator: 40kHz; Monoblock/inverter power: 3.5kW; Continuous fluoroscopy: 40-110kV, 0.2-4mA; Intermittent fluoroscopy: 40-110kV, 0.2-4mA (2p/sec., 1p/1sec., 1p/2sec., 1p/3sec., with 250msec./pulse): One shot: 40-110kV, 7mA-1sec.; Radiography: mAs 250, 40-110kV, 30-75mA (100kV-35mA)

X-Ray System 3.5kW
"R"
Monoblock with rotating anode X-ray tube, foci 0.3-0.6 mm. High frequency X-ray generator: 40kHz; Monoblock/inverter power: 3.5kW; Continuous fluoroscopy: 40-120kV, 0.2-5.5mA; Intermittent fluoroscopy: 40-120kV, 0.2-5.5mA (2p/1sec., 1p/1sec., 1p/2sec., 1p/3sec., with 250msec./pulse): One shot: 40-120kV, 12mA-1sec.; Boosted fluoroscopy: 40-120kV, 12mA-10 sec.; Radiography: mAs 250, 40-120kV, 30-75mA (100kV-50mA)

X-Ray System 5.0kW
"R"
Monoblock with rotating anode X-ray tube, foci 0.3-0.6 mm. High frequency X-ray generator: 40kHz; Monoblock/inverter power: 5kW; Continuous fluoroscopy: 40-120kV, 0.2-5.5mA; Intermittent fluoroscopy: 40-120kV, 0.2-5.5mA (2p/1sec., 1p/1sec., 1p/2sec., 1p/3sec., with 250msec./pulse): One shot: 40-120kV, 12mA-1sec.; Boosted fluoroscopy: 40-120kV, 12mA-10 sec.; Radiography: mAs 250, 40-120kV, 30-75mA (100kV-50mA)
180° rotation, with manual brake for blocking.


450 mm C-arm vertical movement, motorised and controlled by console. (380 mm in the 12” version).

210 mm horizontal C-arm run, with manual brake for blocking.

12° per each side C-arm swivelling with manual brake for blocking. (8° + 8° in the 12” version).

6 MODELS

RADIUS S-7
Unit with 7” (7”-5”) image intensifier and 40 kHz X-ray generator, 110 kV, stationary anode

RADIUS R-7
Unit with 7” (7”-5”) image intensifier and 40 kHz X-ray generator, 120 kV, rotating anode

RADIUS S-9
Unit with 9” (9”-6”-4”) image intensifier and 40 kHz X-ray generator, 110 kV, stationary anode

RADIUS R-9
Unit with 9” (9”-6”-4”) image intensifier and 40 kHz X-ray generator, 120 kV, rotating anode

RADIUS S-12
Unit with 12” (12”-9”-6”) image intensifier and 40 kHz X-ray generator, 110 kV, stationary anode

RADIUS R-12
Unit with 12” (12”-9”-6”) image intensifier and 40 kHz X-ray generator, 120 kV, rotating anode

The unit is in compliance with EC Standard. The applicable accorded Standards are: IEC 601-1, IEC 601-1/A1, IEC 601-1/A2, IEC 601-1/A11/A12, IEC 601-2-7 ED. 2, IEC 601-1-2, IEC 601-1-3

The unit is managed by an easy using control panel, with two liquid crystal displays, and by a high reliability electronic system, controlled by microprocessor.

All the Radius units are furnished with: radiography hand switch, fluoroscopy pedal, 24x30 cassette holder (35x35 in the 12” version), blades and iris motorized collimator, sterile drapes, trolley for monitor.

The Radius unit, in all its versions, may be equipped, on request, with patient dose monitoring. The dose, absorbed by the patient, is indicated on the control panel display or on the TV Monitor, according to the unit configuration.

X-Ray System 3,5kW
"S"
Monoblock with stationary anode X-ray tube, foci 0,6-1,5 mm. High frequency X-ray generator: 40kHz; Monoblock/inverter power: 3,5kW; Continuous fluoroscopy: 40-110kV, 0,2-4mA; Intermittent fluoroscopy: 40-110kV, 0,2-4mA (2p/sec., 1p/1sec., 1p/2sec., 1p/3sec., with 250msec./pulse): One shot: 40-110kV, 7mA-1sec.; Radiography: mAs 250, 40-110Kv, 30-75mA (100kV-35mA)

X-Ray System 3,5kW
"R"
Monoblock with rotating anode X-ray tube, foci 0,3-0,6 mm. High frequency X-ray generator: 40kHz; Monoblock/inverter power: 3,5kW; Continuous fluoroscopy: 40-120kV, 0,2-5,5mA; Intermittent fluoroscopy: 40-120kV, 0,2-5,5mA (2p/1sec., 1p/1sec., 1p/2sec., 1p/3sec., with 250msec./pulse): One shot: 40-120kV, 12mA-1sec.; Boosted fluoroscopy: 40-120kV, 12mA-10 sec.; Radiography: mAs 250, 40-120Kv, 30-75mA (100kV-50mA)

X-Ray System 5,0kW
"R"
Monoblock with rotating anode X-ray tube, foci 0,3-0,6 mm. High frequency X-ray generator: 40kHz; Monoblock/inverter power: 5kW; Continuous fluoroscopy: 40-120kV, 0,2-5,5mA; Intermittent fluoroscopy: 40-120kV, 0,2-5,5mA (2p/1sec., 1p/1sec., 1p/2sec., 1p/3sec., with 250msec./pulse): One shot: 40-120kV, 12mA-1sec.; Boosted fluoroscopy: 40-120kV, 12mA-10 sec.; Radiography: mAs 250, 40-120Kv, 30-75mA (100kV-50mA)

On the Radius units a high definition TV system is installed, dedicated to medical applications. Low persistence TV camera, motorized rotation, CCD 1⁄2” sensor, 100 Hz video output (120 Hz – 60 Hz), 625 L (525 – 60 Hz), scan ratio 4:3, last image hold on the TV work monitor. High contrast and high resolution Monitor TV 17”, flat screen, 100 Hz flickerfree (120 Hz – 60 Hz), 625 L (525 L – 60 Hz). The TV camera is supported by an automatic contrast control system (ABC).
OPTIONS

**DIM 32** - digital memory for 32 images + L.I.H. with 2 monitors (“S” Model)

**DIM 64** - digital memory for 64 images + L.I.H. with 2 monitor (“S” Model)

**DIP 240 S** – digital memory for 192 images (“R” Model)

**DIP 240 HD / A** – digital memory for 48,600 images (“R” Model)

**DICOM 3 Compatible** (only for Memory DIP series)

**Monochrome LCD monitor 18”, 1280x1024 pixels - 10 bits**

**Laser collimator**

**Patient dose monitoring**

**Thermal printer**

The monitor trolley, equipped with blocking brake wheels, contains the general power supply for all Radius devices, with a proper key switch. In the trolley can be installed the memories, Dim and Dip series, and on request one thermal printer. It may be furnished in the versions for one monitor (base with L.I.H.) or for two monitors.

**1) Laser Localizer activation**

**2) Alarm signal**

**3) X-Ray emission signal**

**4) C-arm raising**

**5) C-arm lowering**

**6) Blade diaphragm clockwise rotation**

**7) Blade diaphragm counterclockwise rotation**

**8) Blade diaphragm opening**

**9) Blade diaphragm closing**

**10) Iris diaphragm opening**

**11) Iris diaphragm closing**

**12) Image counterclockwise rotation**

**13) Image clockwise rotation**

**14) Image horizontal inversion**

**15) Image vertical inversion**

**16) 1st Image Intensifier magnification**

**17) 2nd Image Intensifier magnification**

**18) Selected image storage or LIH**

**19) Recursive filter selection**

**20) Image search-back**

**21) Image search-forward**

**22) Reset dose**

**23) Switching the stand on**

**24) Switching the stand off**

**25) Increase kV (up)-Decrease kV (down)**

**26) Increase mA/mAs-Decrease mA/mAs**

**27) Automatic/manual Fluoroscopy**

**28) Intermittent continuous Fluoroscopy**

**29) Fluoroscopy time reset**

**30) Fluoroscopy time alarm reset**

**31) High Contrast Pulsed Fluorography (HCF)**

**32) High Contrast Pulsed Fluoroscopy (HCF)**

**33) kV % Increase in fluorography and D.S.A.**

**34) Dose reduction (in continuous fluoroscopy only)**

**Version with 7” image intensifier, two fields: 7”-5”**

**Grid 103 L/, R 8:1, D.F. 90 cm, D. 170 mm.**

**Version with 9” image intensifier, three fields: 9”-6”-4”**

**Grid 103 L/, R 8:1, D.F. 90 cm, D. 250 mm**

The Radius unit may be equipped, on request, for all versions, with a laser collimator, installed with the X-ray generator.

**Version with 12” image intensifier, three fields: 12”-9”-6”**

**Grid 103, R 8:1, D.F. 90 cm, D. 335 mm.**

**Version with 40 kHz X-ray generator, with stationary anode tube 110 kV , foci 0,6 - 1,5.**

**On all the unit wheels an efficient system is applied, against the squashing of the electric cables present on the floor.**

**Version with 40 kHz X-ray generator, with rotating anode tube 120 kV , foci 0,3 - 0,6.**

**Radius S-R**

**Facchinetti Forlani**

**0051**
X-ray System 3.5kW

- "S" Monoblock with stationary anode X-ray tube, foci 0.6-1.5 mm. High frequency X-ray generator: 40kHz; Monoblock/inverter power: 3.5kW; Continuous fluoroscopy: 40-110kV, 0.2-4mA; Intermittent fluoroscopy: 40-110kV, 0.2-4mA (2p/sec., 1p/1sec., 1p/2sec., 1p/3sec., with 250msec./pulse): One shot: 40-110kV, 7mA-1sec.; Radiography: mAs 250, 40-110Kv, 30-75mA (100kV-35mA)

- "R" Monoblock with rotating anode X-ray tube, foci 0.3-0.6 mm. High frequency X-ray generator: 40kHz; Monoblock/inverter power: 3.5kW; Continuous fluoroscopy: 40-120kV, 0.2-5.5mA; Intermittent fluoroscopy: 40-120kV, 0.2-5.5mA (2p/1sec., 1p/1sec., 1p/2sec., 1p/3sec., with 250msec./pulse): One shot: 40-120kV, 12mA-1sec.; Boosted fluoroscopy: 40-120kV, 12mA-10 sec.; Radiography: mAs 250, 40-120Kv, 30-75mA (100kV-50mA)

X-Ray System 5.0kW

- "R" Monoblock with rotating anode X-ray tube, foci 0.3-0.6 mm. High frequency X-ray generator: 40kHz; Monoblock/inverter power: 5kW; Continuous fluoroscopy: 40-120kV, 0.2-5.5mA; Intermittent fluoroscopy: 40-120kV, 0.2-5.5mA (2p/1sec., 1p/1sec., 1p/2sec., 1p/3sec., with 250msec./pulse): One shot: 40-120kV, 12mA-1sec.; Boosted fluoroscopy: 40-120kV, 12mA-10 sec.; Radiography: mAs 250, 40-120Kv, 30-75mA (100kV-50mA)

6 MODELS

**RADIUS S-7**
Unit with 7" (7"-5") image intensifier and 40 kHz X-ray generator, 110 kV, stationary anode.

**RADIUS R-7**
Unit with 7" (7"-5") image intensifier and 40 kHz X-ray generator, 120 kV, rotating anode.

**RADIUS S-9**
Unit with 9" (9"-6"-4") image intensifier and 40 kHz X-ray generator, 110 kV, stationary anode.

**RADIUS R-9**
Unit with 9" (9"-6"-4") image intensifier and 40 kHz X-ray generator, 120 k V, rotating anode.

**RADIUS S-12**
Unit with 12" (12"-9"-6") image intensifier and 40 kHz X-ray generator, 110 kV, stationary anode.

**RADIUS R-12**
Unit with 12" (12"-9"-6") image intensifier and 40 kHz X-ray generator, 120 kV, rotating anode.

On the Radius unit a high definition TV system is installed, dedicated to medical applications. Low persistence TV camera, motorized rotation, CCD 1/2" sensor, 100 Hz video output (120 Hz – 60 Hz), 625 L (525 L – 60 Hz), scan ratio 4:3, last image hold on the TV work monitor. High contrast and high resolution Monitor TV 17", flat screen, 100 Hz flickerfree (120 Hz – 60 Hz), 625 L (525 L – 60 Hz).

The TV camera is supported by an automatic contrast control system (ABC).

All the Radius units are furnished with: radiography hand switch, fluoroscopy pedal, 24x30 cassette holder (35x35 in the 12" version), blades and iris motorized collimator, sterile drapes, trolley for monitor.

The unit is managed by an easy using control panel, with two liquid crystal displays, and by a high reliability electronic system, controlled by microprocessor.

The unit is in compliance with EC Standard. The applicable accorded Standards are:

- IEC 601-1
- IEC 601-1/A1
- IEC 601-1/A2
- IEC 601-1/A11/A12
- IEC 601-2-7 ED. 2
- IEC 601-1-2
- IEC 601-1-3