

EG X-ray Systems

TEAM SPIRIT ABILITY

PROSLIDE 32 B PROSLIDE 32 B System



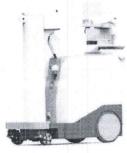


Abb. Version mit Teleskopsäule Fig. Version with telescopic column

PROTEC GmbH & Co. KG | In den Dorfwiesen 14 | D-71720 Oberstenfeld Tel: +49 (0) 70 62/92 55-0 | Fax: +49 (0) 70 62/2 26 85 protec@protec-med.com | www.protec-med.com



PROSLIDE 32 B

Mobile X-ray unit (for analog / CR / DR)

Technical Product Specifications

* For PROSLIDE 32 B with telescopic column, details are in bold print, otherwise identical.

Electrical Specifications

Power supply 115 ÷ 230Vac ±10%

Frequency 50/60 Hz ± 5 Hz

Absorbed current 10 A

Line compensation Automatic

Line resistance <1 Ω@ 115/230Vac

Power supply cable 2.9 m, retractable

Standard outlet 16 A @ 230Vac

Insulation class Class I with applied parts type B

Use conditions

Continuous working with intermittent load

Classification according to the liquid penetration

Safety in presence of anaesthetic inflammable gases

The equipment is neither type AP nor APG

Environmental conditions

Temperature normal use / warehouse and transport

10 °C to 40 °C / -25 °C to 70 °C

Relative humidity normal use / warehouse and transport

30% to 75% non-condensing / 10% to 90% non-

condensing

Pressure normal use / warehouse and transport

700 hPa to 1060 hPa / 500 hPa to 1060 hPa

Total filtration of the equipment

Monobloc

1.4 mm Al @75kV

Additional fixed filter 0

Collimator 2 mm Al @75kV

Total filtration of monobloc group 3.4 mm AL @75kV

Additional filtration of DAP meter 0.3 mm Al @75kV

Total filtration

3.7 mm Al @75kV

Mechanical specifications

Width (in transport position) 576 mm

Length (in transport position) 1168 mm /

*1200 mm

Height (in transport position) 1855 mm /

*1421 mm

Transport handle height 900 mm

Focus-floor distance (Z-axis) 727 ÷ 2014 mm / *660 ÷ 2014 mm

Max. height 2242 mm

Arm extension (X-axis) 360 mm

Front range 710 ÷ 1070 mm

Lateral range 517 ÷ 877 mm / *536 ÷ 896 mm

monobles around the arm axis (a swivel) $\pm 180^{\circ}$

bloc argund the column axis (β swivel) $\pm 320^{\circ}$ from transport position ne monobloc around its axis (y swivel) 127° (90° forward, 37° backward)

Movement

Motorised, speed is proportional to the exerted pressure onto the transport handle.

& Co. KG | In den Dorfwiesen 14 | D-71720 Oberstenfeld 70 62/92 55-0 | Fax: +49 (0) 70 62/2 26 85

otecta protec-med.com | www.protec-med.com

Speed forward (transport position) 0 ÷ 1.4 m/s Speed forward in working position $0 \div 0.7 \, \text{m/s}$

Speed backwards 0 ÷ 0.7 m/s Max. superable inclination 12° (21%)

300 mm, antistatic Wheels diameter rear

Wheels diameter front 125 mm, antistatic, damped

Cassette holder capacity 4 cassettes format 35 x 43 cm (13.78 x 16.93 in.)

Weight 397 kg, batteries included

Batteries

VRLA (Valve regulated lead acid batteries) Battery type

12 batteries x 12V, 18Ah, Pb, 144Vdc Battery pack

Vacuum nominal voltage 144Vdc 100V@200A Load voltage (worst case)

Low battery charge indicator

200 exposures at 80kV/50mAs within 6 hours Min. autonomic operation

Battery charger

115Vac / 230Vac ±10% single-phase, 50/60 Hz Power supply

Absorption by mains 10 A max Charge indicator ves

Charge characteristics | IUoU - compensated in temperature

Charge time

Overtemperature, overvoltage, charge timeout Safeties

Operating specifications

Interface for Bucky. Serial communication (RS232) for External interfaces

service.

Keyboard with graphic LCD display 160 x 101mm (effective area 123 x 68 mm), to display the operating parameters and possible unusual messages or

User interface conditions.

Service program for troubleshooting.

Management by microcontrollers (master-slave). English, German, French, Spanish, Italian, Portuguese.

Further language available for non-European Available languages

characters.

Local hand switch with extensible cable. X-ray hand switch Wireless remote control (optional)

Filament current, Monobloc temperature,

Overloading, Max kV or fault in HV, Check of the stored Safeties

data, Microcontroller auto test, Battery overvoltage.

Storage of 36 exams

(6 anatomical groups, each one of 6 examinations)

Use coefficient (duty cycle) according to the applied power

Programmed Anatomic Mode (APR)

Waiting t = kV * mAs / 100 (s)

X-ray specifications

32kW (320 mA @ 100 kV) Max. power of the generator

Inverter frequency in high voltage 40 kHz

Max ripple <2% @100kV

Climbing time <1ms @100kV

kV values 40 ÷ 125kV in steps of 1kV

kV accuracy ±5% (IEC 60601-2-54)

mA values 70 ÷ 320mA automatically associated to kV

mA accuracy ±10% (IEC 60601-2-54)

(G) In den Dorfwiesen 14 | D-71720 Oberstenfeld

70'62/9255-0 Fax: +49 (0) 70 62/2 26 85 protec@protec-med.com | www.protec-med.com



0.1 ÷ 320mAs with increases of 12,5% mAs values ±10% (IEC 60601-2-54) mAs accuracy 0.001 ÷ 3sec according to set mAs Exposure times ±10% (IEC 60601-2-54) Exposure time accuracy Continuous thermal dissipation 60 W 32 kW Nominal power (100 kV - 320 mA) 0.1s Max. voltage at the tube 125 kV Max. current at the tube 350 mA Ripple to the max. power < 2% kV increasing time to max. power $< 1 \, \text{ms}$ Half-value layer @ 75kV 2 mm Al 1.4 mm Al Min. inherent filtration @75kV 19.0 kg Weight Thermal capacity 600 KJ Total thermal safety 900 kJ Thermal safety (n.c. thermal switch) 60 °C ±5° C Compensation lung volume 0.2 dm³ Continuous thermal dissipation 60 W Leakage radiation $< 1 \, \text{mGy/h}$ 3000 min Rotation speed Nominal High voltage 130 kVp 0,8 mm small focus / 1,3 mm large focus Nominal focus dim. (IEC 60336) 16 kW small focus / 32 kW large focus Nominal anodic power (IEC 60613) RT (Focus track: Tungsten-Rhenium), TZM (Anode Anodic material mass: molybdenum + titanium + zirconium) 64 mm (2,52in.) Anodic diameter 15° Anodic angle Thermal capacity of the anode 80 kJ (107kHU) Max continuous anode dissipation 300 W Min. inherent filtration (IEC 522) 0.7 mm Al eq. Tube material alass Manual with internal light source, multilayer, squared Collimation 80 mm (3.14") min 0 x 0 cm, max 43 x 43 cm

Collimator

X-ray tube

Monobloc

Assembly plan from focus

Coverage of the field at 100cm FFD (SID) Laser field to determine the focal distance at 1 m

> Clusters of high-brightness LED power Lighting source

Lamp lighting time

> 160 lux Light intensity (IEC 60601-2-54)

Minimum contrast ratio (IEC 60601-2-54)

Retractable tape measure (max extension 3 m) Focal distance measurement

> 2 mm equivalent Al/75kV Inherent filtration

0 mm Al / 1 mm Al + 0,1 mm Cu / 1 mm Al + 0,2 mm Additional filtration

Cu/2 mm Al

Rotation ± 120°

Weight 5,5 Kg

DAP meter

Device for the area-dose product measurement in Xray diagnostics according to IEC 60580 standard

Automatic data transfer with Bluetooth DAP Bluetooth DAP

Collimator with included double laser Collimator with laser

Remote exposure control Infrared X-ray control device

In den Dorfwiesen 14 | D-71720 Oberstenfeld

5-0 | Fax: +49 (0) 70 62/2 26 85

protec@protec-med.com | www.protec-med.com

PROSLIDE 32 B System

Mobile X-ray unit with DR system

Consisting of:

PROSLIDE 32 B

Mobile X-ray unit, specification see previous pages, with PC holder

RAPIXX DR system

DR detector with CONAXX 2 acquisition software RAPIXX models are limited to RAPIXX WIFI versions CE 0297

The PROSLIDE 32 B System is supplied with an EC Declaration of Conformity issued by the manufacturer for the mobile Xray unit and an EC Declaration of Conformity issued by PROTEC for the RAPIXX DR system.

CE 0051

PROSLIDE 32 B as well as RAPIXX DR system have their own EC Certificate issued by the corresponding notified bodies.

For the PROSLIDE 32 B System PROTEC applies Article 12 of the Medical Device Directive and puts the two above mentioned devices bearing the CE marking together, in order to place them on the market as a medical system. Accordingly PROTEC provides a Declaration in accordance with Article 12 of Directive 93/42/EEC for PROSLIDE 32 B System, which may be used by our distributors for sales and installation activities.

Optional

8" Tablet PC Tablet PC - 1920 x 1200 Pixel

Intel Bay Trail Quad Core, 2 GB RAM, capacitive Multi Touch, 1 USB for battery charging, 1 micro-USB, WLAN, Windows 8 operating system

19" All-in-one Touch-PC

All-in-one Touch-PC, 1280 x 1024 pixel LCD with LED backlight, resistive Touch, Intel Celeron J1900 quad-core processor, 4 GB RAM, 256 GB SSD, USB/COM/LAN Medical 4KV Isolation, WLAN, waterproof: IP65 Front Panel, 6 hours battery time, Windows 10 operating system



