Options

- Single Monitor
- Dual Monitor Digital 25
- For live and stored-image fluoroscopy before, during and after surgery, the BV 25 has the capability of storing images for video hard copy documentation. Also provides radiographic documentation when required
Philips BV 212 C-Arm

X-ray Source
X-ray generator: DC converter-generator. X-ray tubes – focal spots: dual-focus stationary anode 0.6 and 1.8.

Fluoroscopy System
Image intensifier: 15 cm (6 in) high quantum absorption model with fibre output. TV camera tube: VIDICON with fibre input. Optical coupling between image intensifier and TV camera tube: glass-fibre optics. Source of image distance: 90 cm. Dose rate control: automatic, simultaneous kV/mA control with lock and manual override facilities. KV/mA range: from 0.1 mA at 40 kV to 3 mA at 100 kV. Focal spot: 0.6. Grid: fixed circular grid 44 lines/cm, ratio 8, SID = 90 cm.

Collimator
Iris diaphragm: electronically controlled iris diaphragm, automatically limited to size of image intensifier input field (15 cm 0). Remotely controlled and steplessly adjustable to a field size of 5 cm diameter at input field image intensifier. Shutters: two parallel shutters of 0.5 mm Cu, remotely controlled and steplessly adjustable for a field of 1 to 16 cm wide at image intensifier. The shutters can be rotated ± 90°; in the mid position, the slit aperture is perpendicular to the length of the generator housing.

TV System
XTV 5 50 Hz: 625 lines, 60 Hz: 525 lines. Bandwith: 15 MHz. Control: AGC feedback to dose rate control system. Video monitor(s): 51 cm (20") screen motorized, remotely controlled image rotation and reversal. Output signal for recording system: output level of the composite signal always 1.0 Vp-p positive across 75 ohms. Measuring field selection for adapting control mode to the objects to be examined: small measuring field: 0.3 x diameter of TV image, e.g. extremities. Intermediate measuring field: 0.5 x diameter of TV image, e.g. bile duct and gall bladder. The measuring filed is selected automatically as a function of the kV used.

C-Arm Movements
Height adjustment: 50 cm, motorized. Horizontal movement: 20 cm. Scanning in horizontal plane: 12 ½° to either side. Rotation of c-arm: 205° in either direction. Orbital movement of c-arm: 115°. Distance between x-ray tube space and image intensifier with 30 cm spacer: 60 cm.

Radiography
Tube current: fixed, 20 mA. Tube voltage: adjustable in steps of 5 kV from 40 to 100 kV. Exposure time: adjustable in steps of 10 ms to 4.0 s (mAs is displayed). Focus: 1.8. Radiography parameter display: digital display of tube voltage (kV) and exposure time/current product (mAs). Collimator: if iris diaphragm was set to less than 15 cm during fluoroscopy, this remains so unless cancelled. Circular fields of 15 or 24 cm can be selected by remote control. Rotatable cassette holder: suitable for cassette and grid cassettes of 24 x 24 cm. Proffered grid: ratio 10.44 lines/cm, SID = 90 cm. Inherent filtration: 3 mm Al at 75 kV. Leakage radiation factor: 100 kVdc, 0.06 mA (2160 mAs/hr)

Accuracy of Display
Fluoroscopy: voltage deviation ± 6% ± 2kV, current deviation ± 7% ± 0.02 mA. Radiography: voltage deviation ± 10%, current deviation ± 10%, time deviation ± 2 ms ± 3%, mAs product deviation ± 12% ± 0.04 mAs

Weights
C-arm stand: 210 kg. Monitor trolley excluding image memory single monitor: 131 kg, dual monitors: 164 kg.

Mains Supply
Voltage: 110/120/127/190/208/220/240 V single phase, ±10%. Frequency: 50/60 Hz. Earth leakage current: less than 100 µA

Note: The technical data given in this publication is for general information and is subject to change without notice. Actual configuration on the unit may vary. Contact our sales representatives for a complete list of details.