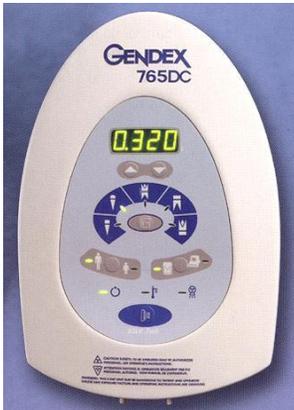


65-20 Gendex 765DC Intraoral X-ray Unit (Project 00-25) (4/02)

The Gendex 765DC is a high-frequency, direct-current intraoral radiographic unit with a fixed output of 65 kV and 7 mA. This output, according to the manufacturer, provides excellent image contrast and gray scale, and reduces patient exposure to radiation. The unit's control panel has five preset time settings identified by pictograms of anatomical areas of the mouth and single-button selections for patient size (adult or child) and for recording method (standard x-ray film or a digital receptor).



The unit can be programmed for use with D, E, or F speed film. While the unit has preset time settings as noted earlier, it has a total of 21 time settings ranging from 0.02 to 2 seconds. The time that is selected is digitally displayed on the control panel. The panel itself can be removed and mounted outside of the x-ray exposure area. Some of the same features that appear on the control panel are also located on the tubehead. The cone has an 8-inch focal length with a 0.4-mm focal spot. The Gendex 765DC is available in 115V/50Hz or 230V/60Hz line voltages, and can be supplied with a 65- or 75-inch-long arm reach. The system has a two-year limited warranty.



Manufacturer:

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Suggested Retail Price: \$4,910.00

Government Price: \$2,649.00

ADVANTAGES:

- + Control panel is easy to read and user-friendly.
- + Range of time settings is satisfactory.
- + Is compatible with digital technology.
- + Preset settings were accurate.
- + Having settings located on tubehead increased efficiency.
- + Tubehead is lightweight.
- + The seamless design of the tubehead simplified infection control.
- + The control panel can be mounted at a remote location (i.e., out of the exposure area).
- + The unit produced radiographs of acceptable quality.

DISADVANTAGES:

- Unit tended to overheat which required turning it off and then on to return it to operation.
- The extension arm was difficult to maneuver which made it hard to properly position the tubehead.



SUMMARY AND CONCLUSIONS:

The Gendex 765DC is a user-friendly unit because its control panel has an easy-to-read, digital timer display with five preset timer settings that are selected by pushing pictograms of the area of the mouth you wish to examine. Other settings are minimal and easy to choose. Many of the settings on the control panel are also located on the tubehead; users appreciated this feature because it improved their efficiency. The evaluators also enjoyed the sleek design of the tubehead and accurate time settings. The radiographs were of good quality and diagnostically acceptable. The major shortcomings of the Gendex 765DC are its difficult-to-maneuver extension arm and its tendency to overheat. Overheating occurred one to two times per week during the evaluation. See update below for current DECS rating.

UPDATE Gendex has informed DECS that the 765's overheating problem was due to an electrical malfunction from a defective circuit board. This caused the cooling light to go on, which indicated to the operator that the unit needed to be shut down. The cause of the problem was identified by Gendex and corrected by installing a new version of the circuit board. According to the company, units purchased after June 2001 have the new board and should not exhibit this problem. DECS has received no further reports of overheating and the **Gendex 765DC** is currently rated **Acceptable** for use in air force dental clinics.