## Premium LCD touchscreen sub-controller



#### Intuitive and easy selection

Intuitive and easy selection of tooth type, cone type, film / digital modes, film speed, kV, mA and patients size.

### Customizable LCD display view

LCD display view can be customized for operator preference. Built-in USB side port enables operators to import personalized screen saver photographic images or dental practice / doctor's name for practice identification and branding.

#### Sensitivity setting

| Image receptor | Ð      |                           |          |
|----------------|--------|---------------------------|----------|
|                | Prese  | t setting                 |          |
| 10             | $\leq$ | Carestream<br>Ultra-speed |          |
| Ö              |        | Carestream<br>Ekta speed  | ]        |
| ÷.             |        | Carestream<br>INSIGHT     | <u>]</u> |
| Ĩ              |        | 77                        | T.       |

Select your image receptor on the screen, then suitable sensitivity setting will be selected from 16 steps automatically.

#### Tooth densitv

| -                 | 0 | 1 | 0 | tooth (b | 1 |
|-------------------|---|---|---|----------|---|
| ting value :      | 1 | 4 | 1 | 41 11    | U |
| 4-4               | Ť | 1 | Ħ | 1 H      | n |
| nital settings =0 | 0 | 0 | 0 | 010      | 0 |

Tooth density ratio settings can be adjusted from the default setting for each tooth.

- A Sum of radiation dose display Check the radiation dose of each patient. Reset the sum by keeping touch the sum number.
- B Display of exposure time

Change the exposure time easily by touching the arrow and obtain the image you desire.

C Display of radiation dose of each exposure.

| Image receptor sensitivity<br>Manual | setting |      |
|--------------------------------------|---------|------|
| F.09 🔿                               | Ö       | F.06 |
| 0 ≤ d.08 ≤                           | P       | d.11 |

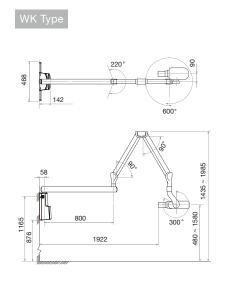
If the darker (or lighter) radiographs are preferred, the sensitivity setting can be adjusted manually.

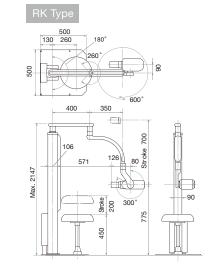
## Error message troubleshooting

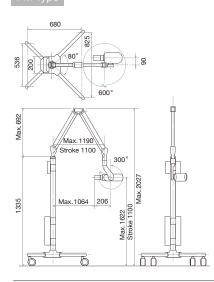
| Error Code                 | E.00   | ×   |
|----------------------------|--|-----|
| Condition<br>Exposure swit | tch was released before exposure termination.      |     |
| Possible soluti            | ion  |     |
| Release the ex             | posure switch after the exposure warning indicatio | e . |
| disappears.                |  |     |
|                            | the upper right to cancel the error display.       |     |

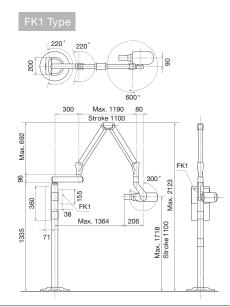
If the X-ray should encounter any abno conditions, an error message will be displayed on the LCD sub-controller screen as well as the suggested troubleshooting solution for the abnormal condition.

# Dimensions









| Nominal focal spot value                | 0.4 (IEC 60336)   |                     |  |
|---|---|---------------------|--|
| Rated tube potential                    | 60 kV / 70 kV (selectable)  |                     |  |
| Rated tube current                      | 3 mA / 6 mA (selectable)  |                     |  |
| Rated line voltage                      | 100 / 110 / 120 / 220 / 230 / 240 V AC 50 / 60 Hz   |                     |  |
| Rated line current<br>(at 70 kV / 6 mA) | · 11.0 A (100 V) · 10.5 A (110 V) · 10.0 A (120 V)<br>· 6.4 A (220 V) · 6.2 A (230 V) · 6.0 A (240 V) |                     |  |
| Line voltage range                      | ±10%  |                     |  |
| Exposure time                           | 0.01 to 2.0 sec.  |                     |  |
| Total filtration                        | 2.0 mmAl Equivalent at 70 kV  |                     |  |
|   | Regular cone  | 203 mm              |  |
| Source to skin distance (SSD)           | Long cone (option)  | 305 mm              |  |
|   | Rectangular collimator (option)   | SSD of cone + 40 mm |  |
| Duty cycle                              | 1:30  |                     |  |
| Half value layer                        | 1.5 mmAl over   |                     |  |
| Donoity proprogram                      | Film  | 16 programs         |  |
| Density preprogram                      | Digital Sensor  | 16 programs         |  |
|   |   |                     |  |

Names of Components Dental X-ray :PHOT-XIIS MODEL 505 :PHOT-XIIS 505 :PHOT-XIIs MODEL 505 :PHOT-XIIs 505 :PHOT-XIIs 505LCD :PHOT-XIIs MODEL 505 WITH ACCESSORIES

# http://www.takarabelmont.co.jp/global/dental/

TAKARA BELMONT CORPORATION 2-1-1,HIGASHISHINSAIBASHI,CHUO-KU,OSAKA,542-0083,JAPAN +81-6-6213-5945

The specifications and colors are subject to change without notice.

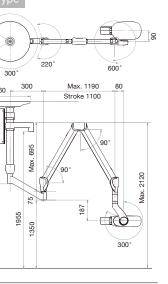
**Belmont** 



0.05s

Ó

0.0



[mm]

REF D-082 190602B MI

# **Reliable DC X-ray by Belmont**

**Belmont's High Frequency Technology allows for** 

- High resolution image by a small focal spot
- Reduced skin dosage with optimum radiation level for every diagnostic need

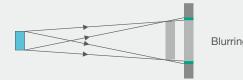
0

- Easy to position compact tube head
- · Ideal matching for digital imaging system

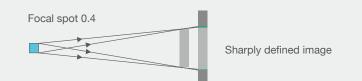


## Features

Small 0.4 focal spot value for the sharpest image possible



Blurring image



#### Radiation dosage

PHOT-XIIs utilizes a Direct Current (DC) generator to minimize radiation absorbed by patients.

In addition, there are 36 programmable exposure time settings between 0.01 to 2.0 seconds to fine tune the precise amount of radiation required to produce an excellent radiographic image.

### Easy to positon compact tube head



The tube head is lightweight, compact and easy to hold. This enables the operator to align the tube head accurately every time.

## Realization of slim and light arm



Our spring arm is designed to have a good balance with load and repulsive force at any position within the movable range and make it possible to make tube head stay at any point when the hands are released. Moreover, well balanced rigidity design helps to reduce the vibration of the tube head after positioning. These methods realize the smooth and easy positioning of the tube head.

## Optimum radiation level for every patient

The operation is simple. Select patient type and tooth type, then press the exposure switch. The exposure time can also be adjusted manually. After the exposure, the radiation output can be displayed in the window.

## Tube voltage selection

#### [60 kV Setting]

- diagnostic imaging.

#### [70 kV Setting]

• Setting provides excellent diagnostic imaging for periodontal disease examination. • Setting provides a wider latitude and longer gray scale.

- PHOT-XIIs provides 2 tube voltage settings to optimize imaging for specific purposes:
- Setting provides balanced contrast for general caries diagnostic imaging. • Setting provides excellent definition and detail for periapical and bone structure

# Five types of installations

- WK Wall mounted type
- RK Room type with stool FM Mobile type with castors
- FK Floor mounted. Sub-controller can be installed on the pole (FK1) or on the wall (FK2) CK Ceiling mounted type. Dental light can be mounted on the pole as an option (CKL Type)





WK Type (Sub-controller can be mounted on the main controller or on the wall) RK Type







FM Туре

FK1 Type

СК Туре

# Options

- Phorizontal arm length of WK Type is selectable : 300 mm, 500 mm, 650 mm, 800 mm (standard) and 1000 mm Ceiling pole length of CK / CKL Type is selectable : 600 ~ 1350 mm
- Long cone (Short cone + Long cone collimator) for paralleling technique
- Rectangular collimator
- Hand exposure switch with coiled cord (Option for WK, RK, FK2 and CK. Standard for FM and FK1.)





Short cone + Long cone collimator Short cone + Rectangular collimator Hand exposure switch