

# R-Tech Dental of MN

1653 Bear Meadow Ln SE/ POB 8108  
 Rochester, MN 55903-8108  
 (800) 826-8704 / (507) 282-1163 FAX  
 X-RAY CALIBRATION RECORD

Calibrated by: Michael Wiltrout

## CLINIC INFORMATION

DATE & TIME	
OFFICE	
ADDRESS	
CITY	STATE
ZIP	PHONE

## UNIT INFORMATION

UNIT MFG.:	MODEL:	UNIT LOCATION:
HEAD SER#:	HEAD MOD#:	HEAD DATE:
TUBE SER#:	TUBE MOD#:	TUBE DATE:
CONE SER#:	CONE MOD#:	CONE DATE:
CTRL. SER#:	CTRL. MOD#:	CTRL. DATE:

## EXTERNAL TEST MEASUREMENTS

TECHNIQUE USED	kVP:	MA:	TIME:	CONE:
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\*Note all mR measurements done using inverse square law. Calculation ( $\frac{1}{d^2} = \frac{1}{d_0^2} \times \frac{mR_0}{mR}$ )

kVp					KVp accuracy +/- 5% for non-certified or with manufacturer specs?	Y / N	AVE
mR reproducibility					Coefficient of variation less than or equal to 5%?	Y / N	AVE
Timer Accuracy					Timer accuracy +/- 10% of indicated setting or within manufacturer specs?	Y / N	

HVL (per below)		MMAL	Minimum HVL requirements per indicated kVp? At least 1.5 mm AL?	>=	Y / N
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## HVL TESTING

0.0mmAl	mR										
1.5mmAl	mR										
2.0mmAl	mR										
2.5mmAl	mR										
3.5mmAl	mR										
mmAl	mR										
mmAl	mR										

0 .5 1.0 1.5 2.0 2.5 3.0 3.5 4.0 mmAL

## INTRA MIN/MAX SETTING

Film Speed	kVp	Timer Set	Meas. mR
Ekta Speed			mR
	mR Min		mR
	mR Max		mR
Ultra Speed			mR
	mR Min		mR
	mR Max		mR

Max times are noted on technique chart. Please do not exceed them.

## INTERNAL TESTING

Internal Check	Measured	Mfg's Range	Pass?
No Load Voltage:			Y / N
Load Voltage:			Y / N
Voltage Drop:			Y / N
V Calculated:			Y / N
V Reference:			Y / N
V Regulated:			Y / N
QmA:			Y / N
mA(1):			Y / N
mA(2):			Y / N
mA(3):			Y / N
A1-P1 tube V:			Y / N

## PASS/FAIL/COLLIMATION

Are technique charts visible and nearby?	YES	NO	N/A
Exposure sonalert & light working?	BUZZ	LITE	B&L
Tube stable at all orientations?	YES	NO	N/A
Multiple tube indicators at control?	YES	NO	N/A
Multiple tube indicators at tube?	YES	NO	N/A
Warning labels present?	YES	NO	N/A
Panoramic beam alignment ok?	YES	NO	N/A
Cephalometric beam alignment ok?	YES	NO	N/A

Ceph SID:		Focal Dist.:	
Field size:	x	Recep. size:	x
Collimator aperture:		Within 2% of SID?	Y / N

NOTES