
Auto-Tech Techniques 400 Speed

**HF-300 / HF3-SE /
HF3-SEE**

OPERATOR'S MANUAL



**HCMI, Inc.
2146 East Pythian
Springfield, MO 65802
Phone (417) 864-6511
Fax (417) 864-7394
Eeprom File Name:AT300.V05
AT300V05.wpd 01-24-01**

Skull: AP @ 40" - Upright Bucky ma 75s										
cm	10	12	14	16	18	20	22	24	26	28
kVp	70	72	75	75	77	78	81	81	81	81
mAs	7.9	8.3	10.1	10.1	12.4	12.4	12.4	13.9	15	17.3

Skull: Lateral @ 40" - Upright Bucky ma 75s										
cm	6	8	10	12	14	16	18	20	22	24
kVp	63	65	67	69	70	73	75	75	75	78
mAs	7.5	7.5	8.6	9	10.1	10.1	11.6	12.4	15	15

Skull: Townes @ 40" - Upright Bucky ma 75s										
cm	10	12	14	16	18	20	22	24	26	28
kVp	75	78	80	83	83	83	85	85	85	85
mAs	7.5	8.6	10.1	11.3	12.4	15	15	17.6	20.3	20.3

Skull: Mandible @ 40" - Upright Bucky ma 75s										
cm	8	10	12	14	16	18	20	22	24	26
kVp	65	68	70	72	72	75	75	75	75	78
mAs	5.3	6.4	7.5	10.1	10.1	12.4	15	15	17.6	17.6

Skull: TMJ @ 40" - Upright Bucky ma 75s										
cm	8	10	12	14	16	18	20	22	24	26
kVp	65	67	70	70	73	75	75	77	80	85
mAs	7.5	7.5	7.5	10.1	10.1	12.4	15	15	15	15

Skull: Caldwell @ 40" - Upright Bucky ma 75s										
cm	12	14	16	18	20	22	24	26	28	30
kVp	65	65	68	70	72	72	75	75	77	80
mAs	15	17.3	19.1	20.3	22.9	23.3	27.4	34.9	40.1	42.4

Skull: Waters @ 40" - Upright Bucky ma 75s										
cm	12	14	16	18	20	22	24	26	28	30
kVp	70	73	75	77	80	80	82	83	85	85
mAs	18.4	20.3	22.1	25.1	27.4	32.6	41.3	48.8	52.5	56.3

Skull: SMV @ 40" - Upright Bucky ma 75s										
cm	15	17	19	21	23	25	27	29	31	33
kVp	75	78	80	80	80	85	85	85	85	88
mAs	7.5	7.5	10.1	12.4	12.8	15	16.5	18.4	20.3	20.3

Skull: Stenvers @ 40" - Upright Bucky ma 75s										
cm	10	12	14	16	18	20	22	24	26	28
kVp	65	68	70	72	75	77	78	80	82	85
mAs	7.5	7.5	7.5	7.5	8.6	10.1	12.4	15	16.5	17.6

Chest: PA @ 72" - Upright Bucky ma 150L										
cm	14	17	20	23	26	29	32	35	38	41
kVp	105	105	105	105	105	105	105	105	105	105
mAs	1.5	1.5	1.5	3	3	3	3	5.3	7.5	9

Chest: Lateral @ 72" - Upright Bucky ma 150L										
cm	16	20	24	28	32	36	40	44	48	52
kVp	110	110	110	110	110	110	110	110	110	110
mAs	1.5	1.5	3	3.8	3.8	3.8	5.3	5.3	8.3	9.8

Chest: Infant AP @ 40" - Non Bucky ma 150s										
cm	6	8	10	12	14	16	18	20	22	24
kVp	52	54	55	57	60	62	64	66	68	70
mAs	1.5	1.5	1.5	2.3	2.3	3	3	3	3	4.5

Chest: Infant Lateral @ 40" - Non Bucky ma 150s										
cm	6	8	10	12	14	16	18	20	22	24
kVp	52	55	57	57	57	62	65	67	69	70
mAs	1.5	1.5	1.5	2.3	2.3	3.8	5.3	6	7.5	8.3

Chest: Ribs AD @ 40" - Upright Bucky ma 200L										
cm	10	13	16	19	22	25	28	31	34	37
kVp	65	67	70	70	74	75	75	77	80	82
mAs	5	6	8	10	10	13	15	15	15	17

Chest: Ribs BD @ 40" - Upright Bucky ma 200L										
cm	12	15	18	21	24	27	30	33	36	39
kVp	72	72	72	72	72	72	72	72	72	72
mAs	6	11	15	22	33	45	60	87	120	150

Cervical: AP @ 40" - Upright Bucky ma 150s										
cm	6	8	10	12	14	16	18	20	22	24
kVp	62	66	70	75	75	75	75	75	77	78
mAs	4.5	5.3	5.3	6	10.5	11.3	12	13.5	13.5	16.5

Cervical: Odontoid @ 40" - Upright Bucky ma 150s										
cm	6	8	10	12	14	16	18	20	22	24
kVp	67	71	75	80	80	80	80	80	82	82
mAs	4.5	5.3	5.3	6	9.8	11.3	12	13.5	13.5	16.5

Cervical: Lateral/Oblique @ 72" - Upright Bucky ma 150s										
cm	8	10	12	14	16	18	20	22	24	26
kVp	75	75	77	80	80	80	80	80	80	80
mAs	9.8	12.0	15	17.3	22.5	23.3	25.5	27	30	35.3

Cervical: Lateral 72 @ 72" - Upright Bucky ma 150s										
cm	8	10	12	14	16	18	20	22	24	26
kVp	75	75	77	80	80	80	80	80	80	80
mAs	10.5	12.8	15.0	17.3	22.5	23.3	25.5	27.8	30	35.3

Cervical: Nasium @ 40" - Upright Bucky ma 150s										
cm	10	12	14	16	18	20	22	24	26	28
kVp	80	80	80	80	80	80	80	80	80	80
mAs	7.5	8.3	11.3	12	12.8	13.5	13.5	14.3	15	17.3

Cervical: Vertex @ 40" - Upright Bucky ma 150s										
cm	16	17	18	19	20	21	22	23	24	25
kVp	77	77	77	77	77	77	77	77	77	77
mAs	9.8	12	15	17.3	20.3	22.5	22.5	30	33	35.3

Thoracic: AP @ 40" - Upright Bucky ma 200L										
cm	10	14	18	22	26	30	34	38	42	46
kVp	77	77	77	77	77	77	77	77	77	77
mAs	8	9	13	19	33	50	75	90	112	130

Thoracic: Lateral @ 40" - Upright Bucky ma 200L										
cm	12	16	20	24	28	32	36	40	44	48
kVp	60	60	60	60	60	66	72	79	86	86
mAs	30	36	50	66	82	82	82	82	105	113

Thoracic: Oblique @ 40" - Upright Bucky ma 200L										
cm	14	18	22	26	30	34	38	42	46	50
kVp	65	70	75	75	75	80	80	85	90	90
mAs	13	13	13	15	19	20	23	25	36	39

Thoracic: Shoulder @ 40" - Upright Bucky ma 150s										
cm	10	12	14	16	18	20	22	24	26	28
kVp	61	61	61	61	61	61	61	61	61	61
mAs	9	11.3	16.5	20.3	25.5	33.8	40.5	50.3	75	89.3

Thoracic: Humerus @ 40" - Non Bucky ma 150s										
cm	6	8	10	12	14	16	18	20	22	24
kVp	65	65	65	65	65	65	65	65	65	65
mAs	1.5	2.3	3	3.8	4.5	6	6.8	7.5	9	11.3

Lumbar: AP @ 40" - Upright Bucky ma 200L										
cm	14	17	20	23	26	29	32	36	38	41
kVp	66	71	71	73	76	76	80	85	85	85
mAs	12	15	20	33	47	69	82	94	118	160

Lumbar: Lateral @ 40" - Upright Bucky ma 250L										
cm	16	20	24	28	32	36	40	44	48	52
kVp	75	80	80	80	80	80	85	90	90	90
mAs	25	31.3	43.8	52.5	75	140	187.5	225	275	325

Lumbar: Oblique @ 40" - Upright Bucky ma 200L										
cm	14	17	20	23	26	29	32	35	38	41
kVp	75	75	82	85	85	85	85	85	85	85
mAs	15	22	26	37	57	94	112	130	150	190

Lumbar: Lat Spot (L5) @ 40" - Upright Bucky ma 150L										
cm	16	19	22	25	28	31	34	37	40	43
kVp	80	85	87	90	95	95	95	95	95	97
mAs	30	35.3	45.8	50.3	65.3	76.5	105	127.5	150	180

Lumbar: Pelvis/Hip @ 40" - Upright Bucky ma 150L										
cm	12	16	20	24	28	32	36	40	44	48
kVp	65	70	75	75	80	80	83	85	85	90
mAs	7.5	10.5	15.8	25.5	40.5	60.8	75.8	75.8	105	112.5

Lumbar: Pediatric @ 40" - Upright Bucky ma 250L										
cm	6	8	10	12	14	16	18	20	22	24
kVp	65	65	65	65	65	65	70	70	75	75
mAs	2.5	3.8	5	6.3	7.5	8.8	10	11.3	15	26.3

Lumbar: Geriatric AP @ 40" - Upright Bucky ma 200L										
cm	14	17	20	23	26	29	32	35	38	41
kVp	70	70	70	70	70	75	80	80	85	85
mAs	10	13	15	25	36	50	60	87	100	120

Lumbar: Geriatric Lateral @ 40" - Upright Bucky ma 200L										
cm	16	19	22	25	28	31	34	37	40	43
kVp	70	75	77	80	80	82	85	85	87	87
mAs	30	40	45	52	60	70	80	85	98	117

Abdomen: KUB @ 40" - Upright Bucky ma 250L										
cm	12	15	18	21	24	27	30	33	36	39
kVp	65	67	67	70	70	73	75	75	80	80
mAs	7.5	10	15	20	45	50	75	90	97.5	147.5

Abdomen: Lateral @ 40" - Upright Bucky ma 150L										
cm	10	13	16	19	22	25	28	31	34	37
kVp	65	72	75	80	85	85	90	90	95	95
mAs	10.5	20.3	30	37.5	45	50.3	65.3	81	105	127.5

Extremity: Hand @ 40" - Non Bucky ma 75s										
cm	2	3	4	5	6	7	8	9	10	11
kVp	52	53	53	53	53	55	55	55	55	55
mAs	0.4	0.4	0.8	0.8	0.8	1.1	1.1	1.5	1.9	2.3

Extremity: Wrist @ 40" - Non Bucky ma 25s										
cm	2	3	4	5	6	7	8	9	10	11
kVp	52	53	53	53	53	55	55	55	55	55
mAs	0.3	0.5	0.5	0.8	1.0	1.0	1.3	1.5	1.8	2.0

Extremity: Forearm @ 40" - Non Bucky ma 25s										
cm	2	3	4	5	6	7	8	9	10	11
kVp	55	55	55	55	55	55	55	55	55	55
mAs	0.5	0.5	0.8	0.8	1.0	1.0	1.3	1.5	1.8	2.0

Extremity: Elbow @ 40" - Non Bucky ma 25s										
cm	3	4	5	6	7	8	9	10	11	12
kVp	56	56	56	56	56	56	58	58	60	60
mAs	0.5	0.5	0.8	0.8	1.1	1.1	1.8	1.8	2.0	2.0

Extremity: Foot @ 40" - Non Bucky ma 25s										
cm	4	5	6	7	8	9	10	11	12	13
kVp	50	50	50	50	50	55	55	55	55	55
mAs	0.5	0.8	1.0	1.3	1.5	1.6	2.0	2.4	2.4	3.3

Extremity: Ankle @ 40" - Non Bucky										ma 25s
cm	2	3	4	5	6	7	8	9	10	11
kVp	52	55	56	56	56	56	58	60	60	60
mAs	0.5	0.5	0.8	0.8	1.0	1.3	1.3	1.8	1.8	2.0

Extremity: Lower Leg @ 40" - Non Bucky										ma 25s
cm	5	6	7	8	9	10	11	12	13	14
kVp	55	57	58	58	60	60	60	60	62	62
mAs	1.3	1.3	1.4	1.4	1.5	1.8	2.3	2.5	2.5	3.0

Extremity: Knee @ 40" - Upright Bucky										ma 150s
cm	5	7	9	11	13	15	17	19	21	23
kVp	65	65	65	65	65	70	70	70	70	70
mAs	2.3	2.3	3.0	4.5	6.0	6.8	7.5	8.3	10.5	10.5

Extremity: Knee/NB @ 40" - Upright Bucky										ma 25s
cm	5	7	9	11	13	15	17	19	21	23
kVp	55	55	55	55	55	60	60	60	60	60
mAs	2.0	2.3	3.1	4.0	5.8	6.5	7.3	8.1	10	10

Special: Geriatric AP @ 72" - Upright Bucky										ma 200L
cm	14	17	20	23	26	29	32	35	38	41
kVp	70	70	70	70	70	70	75	80	80	80
mAs	25	30	40	50	75	100	120	150	180	200

Speical: Geriatric Lateral @ 72" - Upright Bucky										ma 200L
cm	16	19	22	25	28	31	34	37	40	43
kVp	70	70	75	75	75	80	80	80	85	90
mAs	60	75	81	100	120	150	170	200	200	220

Special: Full Spine Pediatric @ 72" - Upright Bucky										ma 150L
cm	6	8	10	12	14	16	18	20	22	24
kVp	70	70	70	70	70	70	70	70	70	75
mAs	6.8	7.5	9.8	12.8	15	20.3	24.8	30.8	39.8	39.8

Special: Full Spine @ 72" - Upright Bucky ma 150L										
cm	12	15	18	21	24	27	30	33	36	39
kVp	80	80	80	80	80	85	90	90	90	90
mAs	15	20.3	30	50.3	62.3	81.8	105	127.5	172.5	210
Special: Full Spine Lateral @ 72" - Upright Bucky ma 150L										
cm	11	14	17	20	23	26	29	32	35	38
kVp	80	80	80	80	80	85	90	90	90	90
mAs	20.3	35.3	50.3	60	75	105	135	157.5	172.5	202.5
Special: Lateral Cervical/Thoracic @ 72" - Upright Bucky ma 200L										
cm	12	16	20	24	28	32	36	40	44	48
kVp	70	70	70	70	70	75	80	85	90	90
mAs	35	40	50	60	81	81	81	81	81	120
Special: Lateral Thoracic/Lumbar @ 72" - Upright Bucky ma 200L										
cm	11	14	17	20	23	26	29	32	35	38
kVp	80	80	80	80	80	85	85	90	90	90
mAs	20	35	50	60	75	100	120	150	180	200