Aladdin II - the world's best!

Aladdin II - precision tube tester, measurer and curve tracer

Aladdin possessed just one magic lamp, whereas our Aladdin will help you find as many magic lamps as you want.

On the basis of following arguments we feel qualified to claim, that Aladdin II is the most accurate and most complex measurement system for low-power audio vacuum tubes in the world.

Aladdin II is:

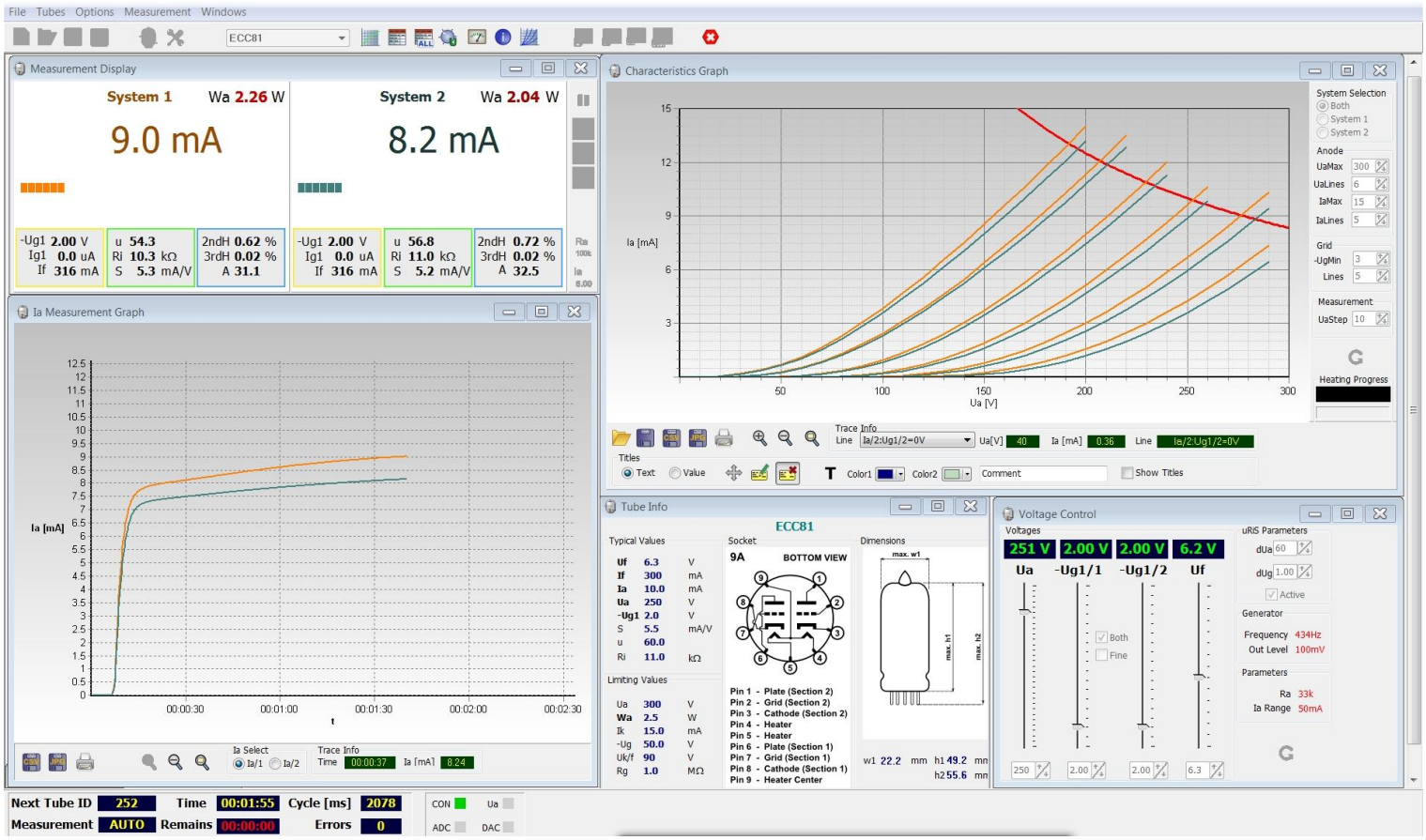
- very fast - saves valuable time in production

- extremely accurate - precision guarantees perfect selection

- the most complex – it measures parameters other measuring systems don`t

- automatically generates a database with measured values in order to increase the quality of purchased tubes, and subsequently to select measured tubes according to whichever parameter, also by several parameters simultaneously

Aladdin II is with its accuracy and speed optimized for use in series production.



Specifications:

ANODE SUPPLY : *0*---300V/50mA *stab.<0.2%*
GRID 1Sys. : *-17*V....0.02V/20mA *stab.<0.1%*
GRID 2Sys. : *-17*V....0.02V/20mA *stab.<0.1%*
HEATER SUPPLY : 0---14V/1,2A *stab.<0.2%*
GAIN MEASUREMENT: Gain A: 0.....99 +-1%
DISTORTION MEASUREMENT : by second and third harmonic

Aladdin II allows three basic measurement modes:

1) automatic - stores all measured parameters in a database for further work

measured parameters:

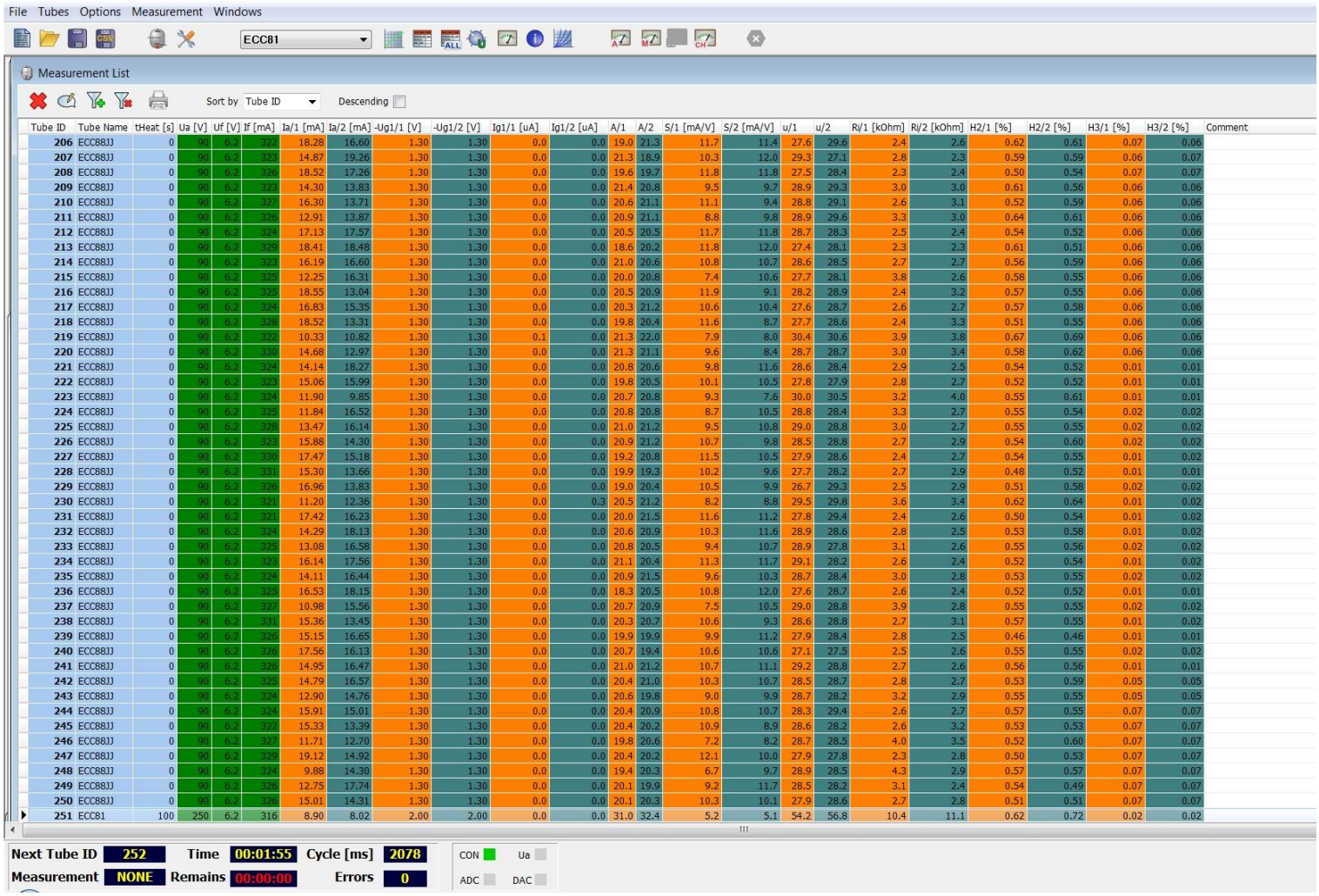
- Ig / first grid current measurement
-Ia / plate current measurement
- If / heater current measurement
- u / amplification factor
- S / transconductance
- Ri / anode resistance
-A/ alternate amplification (measured at 434Hz)
-THD measurement by second and third harmonic (measured at 434Hz)

Ua,Ug,Uf parameters are not only being adjusted, but they are also being measured in real time.

All parameters are being measured by very fast and accurate 24bit analog-to-digital converters with measuring accuracy up to thousandths of a percent, identical converters are being used in very accurate laboratory multimeters.

2) manually - enables to manually adjust any operating point

3) measurement of characteristics



Tube ID	Tube Name	tHeat [s]	Ua [V]	Uf [V]	If [mA]	Ia/1 [mA]	Ia/2 [mA]	-Ug1/1 [V]	-Ug1/2 [V]	Ig1/1 [uA]	Ig1/2 [uA]	A/1	A/2	S/1 [mA/V]	S/2 [mA/V]	u/1	u/2	Ri/1 [kOhm]	Ri/2 [kOhm]	H2/1 [%]	H2/2 [%]	H3/1 [%]	H3/2 [%]	Comment
206	ECC88JJ	0	90	6.2	322	18.28	16.60	1.30	1.30	0.0	0.0	19.0	21.3	11.7	11.4	27.6	29.6	2.4	2.6	0.62	0.61	0.07	0.06	
207	ECC88JJ	0	90	6.2	323	14.87	19.26	1.30	1.30	0.0	0.0	21.3	18.9	10.3	12.0	29.3	27.1	2.8	2.3	0.59	0.59	0.06	0.07	
208	ECC88JJ	0	90	6.2	326	18.52	17.26	1.30	1.30	0.0	0.0	19.6	19.7	11.8	11.8	27.5	28.4	2.3	2.4	0.50	0.54	0.07	0.07	
209	ECC88JJ	0	90	6.2	323	14.30	13.83	1.30	1.30	0.0	0.0	21.4	20.8	9.5	9.7	28.9	29.3	3.0	3.0	0.61	0.56	0.06	0.06	
210	ECC88JJ	0	90	6.2	327	16.30	13.71	1.30	1.30	0.0	0.0	20.6	21.1	11.1	9.4	28.8	29.1	2.6	3.1	0.52	0.59	0.06	0.06	
211	ECC88JJ	0	90	6.2	326	12.91	13.87	1.30	1.30	0.0	0.0	20.9	21.1	8.8	9.8	28.9	29.6	3.3	3.0	0.64	0.61	0.06	0.06	
212	ECC88JJ	0	90	6.2	324	17.13	17.57	1.30	1.30	0.0	0.0	20.5	20.5	11.7	11.8	28.7	28.3	2.5	2.4	0.54	0.52	0.06	0.06	
213	ECC88JJ	0	90	6.2	329	18.41	18.48	1.30	1.30	0.0	0.0	18.6	20.2	11.8	12.0	27.4	28.1	2.3	2.3	0.61	0.51	0.06	0.06	
214	ECC88JJ	0	90	6.2	323	16.19	16.60	1.30	1.30	0.0	0.0	21.0	20.6	10.8	10.7	28.6	28.5	2.7	2.7	0.56	0.59	0.06	0.06	
215	ECC88JJ	0	90	6.2	325	12.25	16.31	1.30	1.30	0.0	0.0	20.0	20.8	7.4	10.6	27.7	28.1	3.8	2.6	0.58	0.55	0.06	0.06	
216	ECC88JJ	0	90	6.2	325	18.55	13.04	1.30	1.30	0.0	0.0	20.5	20.9	11.9	9.1	28.2	28.9	2.4	3.2	0.57	0.55	0.06	0.06	
217	ECC88JJ	0	90	6.2	324	16.83	15.35	1.30	1.30	0.0	0.0	20.3	21.2	10.6	10.4	27.6	28.7	2.6	2.7	0.57	0.58	0.06	0.06	
218	ECC88JJ	0	90	6.2	328	18.52	13.31	1.30	1.30	0.0	0.0	19.8	20.4	11.6	8.7	27.7	28.6	2.4	3.3	0.51	0.55	0.06	0.06	
219	ECC88JJ	0	90	6.2	322	10.33	10.82	1.30	1.30	0.1	0.0	21.3	22.0	7.9	8.0	30.4	30.6	3.9	3.8	0.67	0.69	0.06	0.06	
220	ECC88JJ	0	90	6.2	330	14.68	12.97	1.30	1.30	0.0	0.0	21.3	21.1	9.6	8.4	28.7	28.7	3.0	3.4	0.58	0.62	0.06	0.06	
221	ECC88JJ	0	90	6.2	324	14.14	18.27	1.30	1.30	0.0	0.0	20.8	20.6	9.8	11.6	28.6	28.4	2.9	2.5	0.54	0.52	0.01	0.01	
222	ECC88JJ	0	90	6.2	323	15.06	15.99	1.30	1.30	0.0	0.0	19.8	20.5	10.1	10.5	27.8	27.9	2.8	2.7	0.52	0.52	0.01	0.01	
223	ECC88JJ	0	90	6.2	324	11.90	9.85	1.30	1.30	0.0	0.0	20.7	20.8	9.3	7.6	30.0	30.5	3.2	4.0	0.55	0.61	0.01	0.01	
224	ECC88JJ	0	90	6.2	325	11.84	16.52	1.30	1.30	0.0	0.0	20.8	20.8	8.7	10.5	28.8	28.4	3.3	2.7	0.55	0.54	0.02	0.02	
225	ECC88JJ	0	90	6.2	328	13.47	16.14	1.30	1.30	0.0	0.0	21.0	21.2	9.5	10.8	29.0	28.8	3.0	2.7	0.55	0.55	0.02	0.02	
226	ECC88JJ	0	90	6.2	323	15.88	14.30	1.30	1.30	0.0	0.0	20.9	21.2	10.7	9.8	28.5	28.8	2.7	2.9	0.54	0.60	0.02	0.02	
227	ECC88JJ	0	90	6.2	330	17.47	15.18	1.30	1.30	0.0	0.0	19.2	20.8	11.5	10.5	27.9	28.6	2.4	2.7	0.54	0.55	0.01	0.02	
228	ECC88JJ	0	90	6.2	331	15.30	13.66	1.30	1.30	0.0	0.0	19.9	19.3	10.2	9.6	27.7	28.2	2.7	2.9	0.48	0.52	0.01	0.01	
229	ECC88JJ	0	90	6.2	326	16.96	13.83	1.30	1.30	0.0	0.0	19.0	20.4	10.5	9.9	26.7	29.3	2.5	2.9	0.51	0.58	0.02	0.02	
230	ECC88JJ	0	90	6.2	321	11.20	12.36	1.30	1.30	0.0	0.3	20.5	21.2	8.2	8.8	29.5	29.8	3.6	3.4	0.62	0.64	0.01	0.02	
231	ECC88JJ	0	90	6.2	321	17.42	16.23	1.30	1.30	0.0	0.0	20.0	21.5	11.6	11.2	27.8	29.4	2.4	2.6	0.50	0.54	0.01	0.02	
232	ECC88JJ	0	90	6.2	324	14.29	18.13	1.30	1.30	0.0	0.0	20.6	20.9	10.3	11.6	28.9	28.6	2.8	2.5	0.53	0.58	0.01	0.02	
233	ECC88JJ	0	90	6.2	325	13.08	16.58	1.30	1.30	0.0	0.0	20.8	20.5	9.4	10.7	28.9	27.8	3.1	2.6	0.55	0.56	0.02	0.02	
234	ECC88JJ	0	90	6.2	323	16.14	17.56	1.30	1.30	0.0	0.0	21.1	20.4	11.3	11.7	29.1	28.2	2.6	2.4	0.52	0.54	0.01	0.02	
235	ECC88JJ	0	90	6.2	324	14.11	16.44	1.30	1.30	0.0	0.0	20.9	21.5	9.6	10.3	28.7	28.4	3.0	2.8	0.53	0.55	0.02	0.02	
236	ECC88JJ	0	90	6.2	325	16.53	18.15	1.30	1.30	0.0	0.0	18.3	20.5	10.8	12.0	27.6	28.7	2.6	2.4	0.52	0.52	0.01	0.01	
237	ECC88JJ	0	90	6.2	327	10.98	15.56	1.30	1.30	0.0	0.0	20.7	20.9	7.5	10.5	29.0	28.8	3.9	2.8	0.55	0.55	0.02	0.02	
238	ECC88JJ	0	90	6.2	331	15.36	13.45	1.30	1.30	0.0	0.0	20.3	20.7	10.6	9.3	28.6	28.8	2.7	3.1	0.57	0.55	0.01	0.02	
239	ECC88JJ	0	90	6.2	326	15.15	16.65	1.30	1.30	0.0	0.0	19.9	19.9	9.9	11.2	27.9	28.4	2.8	2.5	0.46	0.46	0.01	0.01	
240	ECC88JJ	0	90	6.2	326	17.56	16.13	1.30	1.30	0.0	0.0	20.7	19.4	10.6	10.6	27.1	27.5	2.5	2.6	0.55	0.55	0.02	0.02	
241	ECC88JJ	0	90	6.2	326	14.95	16.47	1.30	1.30	0.0	0.0	21.0	21.2	10.7	11.1	29.2	28.8	2.7	2.6	0.56	0.56	0.01	0.01	
242	ECC88JJ	0	90	6.2	325	14.79	16.57	1.30	1.30	0.0	0.0	20.4	21.0	10.3	10.7	28.5	28.7	2.8	2.7	0.53	0.59	0.05	0.05	
243	ECC88JJ	0	90	6.2	324	12.90	14.76	1.30	1.30	0.0	0.0	20.6	19.8	9.0	9.9	28.7	28.2	3.2	2.9	0.55	0.55	0.05	0.05	
244	ECC88JJ	0	90	6.2	324	15.91	15.01	1.30	1.30	0.0	0.0	20.4	20.9	10.8	10.7	28.3	29.4	2.6	2.7	0.57	0.55	0.07	0.07	
245	ECC88JJ	0	90	6.2	322	15.33	13.39	1.30	1.30	0.0	0.0	20.4	20.2	10.9	8.9	28.6	28.2	2.6	3.2	0.53	0.53	0.07	0.07	
246	ECC88JJ	0	90	6.2	327	11.71	12.70	1.30	1.30	0.0	0.0	19.8	20.6	7.2	8.2	28.7	28.5	4.0	3.5	0.52	0.60	0.07	0.07	
247	ECC88JJ	0	90	6.2	329	19.12	14.92	1.30	1.30	0.0	0.0	20.4	20.2	12.1	10.0	27.9	27.8	2.3	2.8	0.50	0.53	0.07	0.07	
248	ECC88JJ	0	90	6.2	324	9.88	14.30	1.30	1.30	0.0	0.0	19.4	20.3	6.7	9.7	28.9	28.5	4.3	2.9	0.57	0.57	0.07	0.07	
249	ECC88JJ	0	90	6.2	326	12.75	17.74	1.30	1.30	0.0	0.0	20.1	19.9	9.2	11.7	28.5	28.2	3.1	2.4	0.54	0.49	0.07	0.07	
250	ECC88JJ	0	90	6.2	326	15.01	14.31	1.30	1.30	0.0	0.0	20.1	20.3	10.3	10.1	27.9	28.6	2.7	2.8	0.51	0.51	0.07	0.07	
251	ECC81	100	250	6.2	316	8.90	8.02	2.00	2.00	0.0	0.0	31.0	32.4	5.2	5.1	54.2	56.8	10.4	11.1	0.62	0.72	0.02	0.02	

supported audio vacuum tubes:
ECC81,ECC82,ECC83,ECC85,ECC88,ECC99,ECC801,ECC802,ECC803,12AT7,12AU7,12AX7,6DJ8 E180CC

6SN7,6SL7,12BH7,12AY7,6BL7,6BX7,12AZ7,E288CC,6CG7,PCC189,6060,6201,6679,7728,5814, 6067,

6189,6688,6213,12DF7,12DT7,5721,6027,6681,6922,7025,7729,6H23II,ECC868,PCC88,6N1P,6H30

List can be edited and updated by pin compatible tubes accordingly.

CANOR , spol. s r.o., Družstevná 39, 080 06 Prešov, Slovakia

Tel./Fax: + 421 51 7710 396, e-mail: canor-audio@canor-audio.com, http://www.canor-audio.com/