



RCV-5000 User Guide

User's Guide

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The RCV-5000 is a programmable Infrared to RS232 receiver which can output in both ASCII and Hex data formats for use with a variety of applications.

What's Included:

1. (1) DB9 Male to Female Serial Cable (RoHS)
 2. (1) Power Supply 9V DC (RoHS)
 3. (1) RCV-5000 Unit
 4. (1) Gender Changer DB9 Male to DB9 Male (RoHS)*
 5. (1) CD-Rom containing Manual, CCF File, Command Table
- *Optional Part Based Upon Application



Getting Started:

These units are shipped with a specific HEX file pre-loaded into the receiver and ready for use. Connect the DB9 cable to your device and the RCV-5000 unit. Plug in the power supply and an LED on the front panel will indicate the unit is active. Transmit an infrared code from a Pronto or compatible remote control with the supplied .CCF file or other infrared source** toward the unit. A feedback LED will blink on the unit to signal that it has received a valid infrared code. Your device should respond accordingly.

**This is determined during the creation of the HEX file.



Federal Communications Commission (FCC) Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

Reorient or relocate the receiving antenna.

Increase the separation between the equipment and receiver.

Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

Consult the dealer or an experienced radio/TV technician for help.

Properly shielded and grounded cables and connectors must be used to meet FCC emission limits. Celadon is not responsible for any radio or television interference caused by using other than recommended cables or connectors.

Unauthorized changes or modifications to the equipment could void the user's authority to operate the equipment.

These devices comply with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) These devices may not cause harmful interference, and (2) these devices must accept any interference received, including interference that may cause undesired operation.

Warning

This is a Class A product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.

Appendix

RCV-5000 IR to RS-232 Output Table

Device: Centralite

Infrared Remote Control: Philips PRONTO

Infrared Code Format: NEC - Device IDs (per 128): 9A02, 9C02, 9E02, A002

Infrared Receiver: Celadon RCV-5000 Infrared to RS-232 Receiver

RCV-5000 Data File: centralite4.hex.hex

Data: 19200 Baud, 8, N, 1, ASCII Output

Standard Transmit and Receive Pinout

Scene Commands

Button Number	Scene Number	Action	Command	Button Number	Action	Command
0	1	Activate	^C001	1	Deactivate	^D001
2	2	Activate	^C002	3	Deactivate	^D002
4	3	Activate	^C003	5	Deactivate	^D003
6	4	Activate	^C004	7	Deactivate	^D004
8	5	Activate	^C005	9	Deactivate	^D005
10	6	Activate	^C006	11	Deactivate	^D006
12	7	Activate	^C007	13	Deactivate	^D007
14	8	Activate	^C008	15	Deactivate	^D008
16	9	Activate	^C009	17	Deactivate	^D009
18	10	Activate	^C010	19	Deactivate	^D010
20	11	Activate	^C011	21	Deactivate	^D011
22	12	Activate	^C012	23	Deactivate	^D012
24	13	Activate	^C013	25	Deactivate	^D013
26	14	Activate	^C014	27	Deactivate	^D014
28	15	Activate	^C015	29	Deactivate	^D015
30	16	Activate	^C016	31	Deactivate	^D016
32	17	Activate	^C017	33	Deactivate	^D017
34	18	Activate	^C018	35	Deactivate	^D018
36	19	Activate	^C019	37	Deactivate	^D019
38	20	Activate	^C020	39	Deactivate	^D020
40	21	Activate	^C021	41	Deactivate	^D021
42	22	Activate	^C022	43	Deactivate	^D022
44	23	Activate	^C023	45	Deactivate	^D023
46	24	Activate	^C024	47	Deactivate	^D024
48	25	Activate	^C025	49	Deactivate	^D025
50	26	Activate	^C026	51	Deactivate	^D026
52	27	Activate	^C027	53	Deactivate	^D027
54	28	Activate	^C028	55	Deactivate	^D028
56	29	Activate	^C029	57	Deactivate	^D029
58	30	Activate	^C030	59	Deactivate	^D030
60	31	Activate	^C031	61	Deactivate	^D031
62	32	Activate	^C032	63	Deactivate	^D032

Load Commands

Button Number	Load Number	Action	Command	Button Number	Action	Command
64	1	Activate	^A001	65	Deactivate	^B001
66	2	Activate	^A002	67	Deactivate	^B002
68	3	Activate	^A003	69	Deactivate	^B003
70	4	Activate	^A004	71	Deactivate	^B004
72	5	Activate	^A005	73	Deactivate	^B005
74	6	Activate	^A006	75	Deactivate	^B006
76	7	Activate	^A007	77	Deactivate	^B007
78	8	Activate	^A008	79	Deactivate	^B008
80	9	Activate	^A009	81	Deactivate	^B009
82	10	Activate	^A010	83	Deactivate	^B010
84	11	Activate	^A011	85	Deactivate	^B011
86	12	Activate	^A012	87	Deactivate	^B012
88	13	Activate	^A013	89	Deactivate	^B013
90	14	Activate	^A014	91	Deactivate	^B014
92	15	Activate	^A015	93	Deactivate	^B015
94	16	Activate	^A016	95	Deactivate	^B016
96	17	Activate	^A017	97	Deactivate	^B017
98	18	Activate	^A018	99	Deactivate	^B018
100	19	Activate	^A019	101	Deactivate	^B019
102	20	Activate	^A020	103	Deactivate	^B020
104	21	Activate	^A021	105	Deactivate	^B021
106	22	Activate	^A022	107	Deactivate	^B022
108	23	Activate	^A023	109	Deactivate	^B023
110	24	Activate	^A024	111	Deactivate	^B024
112	25	Activate	^A025	113	Deactivate	^B025
114	26	Activate	^A026	115	Deactivate	^B026
116	27	Activate	^A027	117	Deactivate	^B027
118	28	Activate	^A028	119	Deactivate	^B028
120	29	Activate	^A029	121	Deactivate	^B029
122	30	Activate	^A030	123	Deactivate	^B030
124	31	Activate	^A031	125	Deactivate	^B031
126	32	Activate	^A032	127	Deactivate	^B032

Scene Commands

Button Number	Scene Number	Action	Command	Button Number	Action	Command
128	33	Activate	^C033	129	Deactivate	^D033
130	34	Activate	^C034	131	Deactivate	^D034
132	35	Activate	^C035	133	Deactivate	^D035
134	36	Activate	^C036	135	Deactivate	^D036
136	37	Activate	^C037	137	Deactivate	^D037
138	38	Activate	^C038	139	Deactivate	^D038
140	39	Activate	^C039	141	Deactivate	^D039
142	40	Activate	^C040	143	Deactivate	^D040
144	41	Activate	^C041	145	Deactivate	^D041
146	42	Activate	^C042	147	Deactivate	^D042
148	43	Activate	^C043	149	Deactivate	^D043
150	44	Activate	^C044	151	Deactivate	^D044
152	45	Activate	^C045	153	Deactivate	^D045
154	46	Activate	^C046	155	Deactivate	^D046
156	47	Activate	^C047	157	Deactivate	^D047
158	48	Activate	^C048	159	Deactivate	^D048
160	49	Activate	^C049	161	Deactivate	^D049
162	50	Activate	^C050	163	Deactivate	^D050
164	51	Activate	^C051	165	Deactivate	^D051
166	52	Activate	^C052	167	Deactivate	^D052
168	53	Activate	^C053	169	Deactivate	^D053
170	54	Activate	^C054	171	Deactivate	^D054
172	55	Activate	^C055	173	Deactivate	^D055
174	56	Activate	^C056	175	Deactivate	^D056
176	57	Activate	^C057	177	Deactivate	^D057
178	58	Activate	^C058	179	Deactivate	^D058
180	59	Activate	^C059	181	Deactivate	^D059
182	60	Activate	^C060	183	Deactivate	^D060
184	61	Activate	^C061	185	Deactivate	^D061
186	62	Activate	^C062	187	Deactivate	^D062
188	63	Activate	^C063	189	Deactivate	^D063
190	64	Activate	^C064	191	Deactivate	^D064

Load Commands

Button Number	Scene Number	Action	Command	Button Number	Action	Command
192	33	Activate	^A033	193	Deactivate	^B033
194	34	Activate	^A034	195	Deactivate	^B034
196	35	Activate	^A035	197	Deactivate	^B035
198	36	Activate	^A036	199	Deactivate	^B036
200	37	Activate	^A037	201	Deactivate	^B037
202	38	Activate	^A038	203	Deactivate	^B038
204	39	Activate	^A039	205	Deactivate	^B039
206	40	Activate	^A040	207	Deactivate	^B040
208	41	Activate	^A041	209	Deactivate	^B041
210	42	Activate	^A042	211	Deactivate	^B042
212	43	Activate	^A043	213	Deactivate	^B043
214	44	Activate	^A044	215	Deactivate	^B044
216	45	Activate	^A045	217	Deactivate	^B045
218	46	Activate	^A046	219	Deactivate	^B046
220	47	Activate	^A047	221	Deactivate	^B047
222	48	Activate	^A048	223	Deactivate	^B048
224	49	Activate	^A049	225	Deactivate	^B049
226	50	Activate	^A050	227	Deactivate	^B050
228	51	Activate	^A051	229	Deactivate	^B051
230	52	Activate	^A052	231	Deactivate	^B052
232	53	Activate	^A053	233	Deactivate	^B053
234	54	Activate	^A054	235	Deactivate	^B054
236	55	Activate	^A055	237	Deactivate	^B055
238	56	Activate	^A056	239	Deactivate	^B056
240	57	Activate	^A057	241	Deactivate	^B057
242	58	Activate	^A058	243	Deactivate	^B058
244	59	Activate	^A059	245	Deactivate	^B059
246	60	Activate	^A060	247	Deactivate	^B060
248	61	Activate	^A061	249	Deactivate	^B061
250	62	Activate	^A062	251	Deactivate	^B062
252	63	Activate	^A063	253	Deactivate	^B063
254	64	Activate	^A064	255	Deactivate	^B064

Scene Commands

Button Number	Scene Number	Action	Command	Button Number	Action	Command
256	65	Activate	^C065	257	Deactivate	^D065
258	66	Activate	^C066	259	Deactivate	^D066
260	67	Activate	^C067	261	Deactivate	^D067
262	68	Activate	^C068	263	Deactivate	^D068
264	69	Activate	^C069	265	Deactivate	^D069
266	70	Activate	^C070	267	Deactivate	^D070
268	71	Activate	^C071	269	Deactivate	^D071
270	72	Activate	^C072	271	Deactivate	^D072
272	73	Activate	^C073	273	Deactivate	^D073
274	74	Activate	^C074	275	Deactivate	^D074
276	75	Activate	^C075	277	Deactivate	^D075
278	76	Activate	^C076	279	Deactivate	^D076
280	77	Activate	^C077	281	Deactivate	^D077
282	78	Activate	^C078	283	Deactivate	^D078
284	79	Activate	^C079	285	Deactivate	^D079
286	80	Activate	^C080	287	Deactivate	^D080
288	81	Activate	^C081	289	Deactivate	^D081
290	82	Activate	^C082	291	Deactivate	^D082
292	83	Activate	^C083	293	Deactivate	^D083
294	84	Activate	^C084	295	Deactivate	^D084
296	85	Activate	^C085	297	Deactivate	^D085
298	86	Activate	^C086	299	Deactivate	^D086
300	87	Activate	^C087	301	Deactivate	^D087
302	88	Activate	^C088	303	Deactivate	^D088
304	89	Activate	^C089	305	Deactivate	^D089
306	90	Activate	^C090	307	Deactivate	^D090
308	91	Activate	^C091	309	Deactivate	^D091
310	92	Activate	^C092	311	Deactivate	^D092
312	93	Activate	^C093	313	Deactivate	^D093
314	94	Activate	^C094	315	Deactivate	^D094
316	95	Activate	^C095	317	Deactivate	^D095
318	96	Activate	^C096	319	Deactivate	^D096

Load Commands

Button Number	Scene Number	Action	Command	Button Number	Action	Command
320	65	Activate	^A065	321	Deactivate	^B065
322	66	Activate	^A066	323	Deactivate	^B066
324	67	Activate	^A067	325	Deactivate	^B067
326	68	Activate	^A068	327	Deactivate	^B068
328	69	Activate	^A069	329	Deactivate	^B069
330	70	Activate	^A070	331	Deactivate	^B070
332	71	Activate	^A071	333	Deactivate	^B071
334	72	Activate	^A072	335	Deactivate	^B072
336	73	Activate	^A073	337	Deactivate	^B073
338	74	Activate	^A074	339	Deactivate	^B074
340	75	Activate	^A075	341	Deactivate	^B075
342	76	Activate	^A076	343	Deactivate	^B076
344	77	Activate	^A077	345	Deactivate	^B077
346	78	Activate	^A078	347	Deactivate	^B078
348	79	Activate	^A079	349	Deactivate	^B079
350	80	Activate	^A080	351	Deactivate	^B080
352	81	Activate	^A081	353	Deactivate	^B081
354	82	Activate	^A082	355	Deactivate	^B082
356	83	Activate	^A083	357	Deactivate	^B083
358	84	Activate	^A084	359	Deactivate	^B084
360	85	Activate	^A085	361	Deactivate	^B085
362	86	Activate	^A086	363	Deactivate	^B086
364	87	Activate	^A087	365	Deactivate	^B087
366	88	Activate	^A088	367	Deactivate	^B088
368	89	Activate	^A089	369	Deactivate	^B089
370	90	Activate	^A090	371	Deactivate	^B090
372	91	Activate	^A091	373	Deactivate	^B091
374	92	Activate	^A092	375	Deactivate	^B092
376	93	Activate	^A093	377	Deactivate	^B093
378	94	Activate	^A094	379	Deactivate	^B094
380	95	Activate	^A095	381	Deactivate	^B095
382	96	Activate	^A096	383	Deactivate	^B096

Scene Commands

Button Number	Scene Number	Action	Command	Button Number	Action	Command
384	97	Activate	^C097	385	Deactivate	^D097
386	98	Activate	^C098	387	Deactivate	^D098
388	99	Activate	^C099	389	Deactivate	^D099
390	100	Activate	^C100	391	Deactivate	^D100
392	101	Activate	^C101	393	Deactivate	^D101
394	102	Activate	^C102	395	Deactivate	^D102
396	103	Activate	^C103	397	Deactivate	^D103
398	104	Activate	^C104	399	Deactivate	^D104
400	105	Activate	^C105	401	Deactivate	^D105
402	106	Activate	^C106	403	Deactivate	^D106
404	107	Activate	^C107	405	Deactivate	^D107
406	108	Activate	^C108	407	Deactivate	^D108
408	109	Activate	^C109	409	Deactivate	^D109
410	110	Activate	^C110	411	Deactivate	^D110
412	111	Activate	^C111	413	Deactivate	^D111
414	112	Activate	^C112	415	Deactivate	^D112
416	113	Activate	^C113	417	Deactivate	^D113
418	114	Activate	^C114	419	Deactivate	^D114
420	115	Activate	^C115	421	Deactivate	^D115
422	116	Activate	^C116	423	Deactivate	^D116
424	117	Activate	^C117	425	Deactivate	^D117
426	118	Activate	^C118	427	Deactivate	^D118
428	119	Activate	^C119	429	Deactivate	^D119
430	120	Activate	^C120	431	Deactivate	^D120
432	121	Activate	^C121	433	Deactivate	^D121
434	122	Activate	^C122	435	Deactivate	^D122
436	123	Activate	^C123	437	Deactivate	^D123
438	124	Activate	^C124	439	Deactivate	^D124
440	125	Activate	^C125	441	Deactivate	^D125
442	126	Activate	^C126	443	Deactivate	^D126
444	127	Activate	^C127	445	Deactivate	^D127
446	128	Activate	^C128	447	Deactivate	^D128

Load Commands

Button Number	Load Number	Action	Command	Button Number	Action	Command
448	97	Activate	^A097	385	Deactivate	^B097
450	98	Activate	^A098	387	Deactivate	^B098
452	99	Activate	^A099	389	Deactivate	^B099
454	100	Activate	^A100	391	Deactivate	^B100
456	101	Activate	^A101	393	Deactivate	^B101
458	102	Activate	^A102	395	Deactivate	^B102
460	103	Activate	^A103	397	Deactivate	^B103
462	104	Activate	^A104	399	Deactivate	^B104
464	105	Activate	^A105	401	Deactivate	^B105
466	106	Activate	^A106	403	Deactivate	^B106
468	107	Activate	^A107	405	Deactivate	^B107
470	108	Activate	^A108	407	Deactivate	^B108
472	109	Activate	^A109	409	Deactivate	^B109
474	110	Activate	^A110	411	Deactivate	^B110
476	111	Activate	^A111	413	Deactivate	^B111
478	112	Activate	^A112	415	Deactivate	^B112
480	113	Activate	^A113	417	Deactivate	^B113
482	114	Activate	^A114	419	Deactivate	^B114
484	115	Activate	^A115	421	Deactivate	^B115
486	116	Activate	^A116	423	Deactivate	^B116
488	117	Activate	^A117	425	Deactivate	^B117
490	118	Activate	^A118	427	Deactivate	^B118
492	119	Activate	^A119	429	Deactivate	^B119
494	120	Activate	^A120	431	Deactivate	^B120
496	121	Activate	^A121	433	Deactivate	^B121
498	122	Activate	^A122	435	Deactivate	^B122
500	123	Activate	^A123	437	Deactivate	^B123
502	124	Activate	^A124	439	Deactivate	^B124
504	125	Activate	^A125	441	Deactivate	^B125
506	126	Activate	^A126	443	Deactivate	^B126
508	127	Activate	^A127	445	Deactivate	^B127
510	128	Activate	^A128	447	Deactivate	^B128