



## **SCT-1005**

**CAMERA CONTROL CODE TRANSLATOR  
BOSCH BIPHASE to KALATEL RS-422 Ver. 3.51**

[www.sennetech.net](http://www.sennetech.net)

**Sennetech, Inc. 6455 W. Bath Rd. Perry, MI 48872 U.S.A. Ph (517) 675-1150 Fax (517) 675-1151**

## PRODUCT DESCRIPTION

The SCT-1005 is a Bosch to Kalatel code translator designed to permit control of Kalatel receivers from Bosch controllers. It receives Bosch biphase code and transmits the appropriate commands in Kalatel RS-422 format. Four independent Kalatel outputs reduce the need for Kalatel distribution units.

Front panel LEDs indicate status of power, receive, and transmit.

The code translator can be programmed via internal switches to offset the Bosch addresses to one of four groups. This allows the use of Bosch addresses above the highest number that can be set in the Kalatel receivers.

Internal switches are also used to select the output baud rate and the type of output, either Digiplex II or Digiplex III.

## SPECIFICATIONS

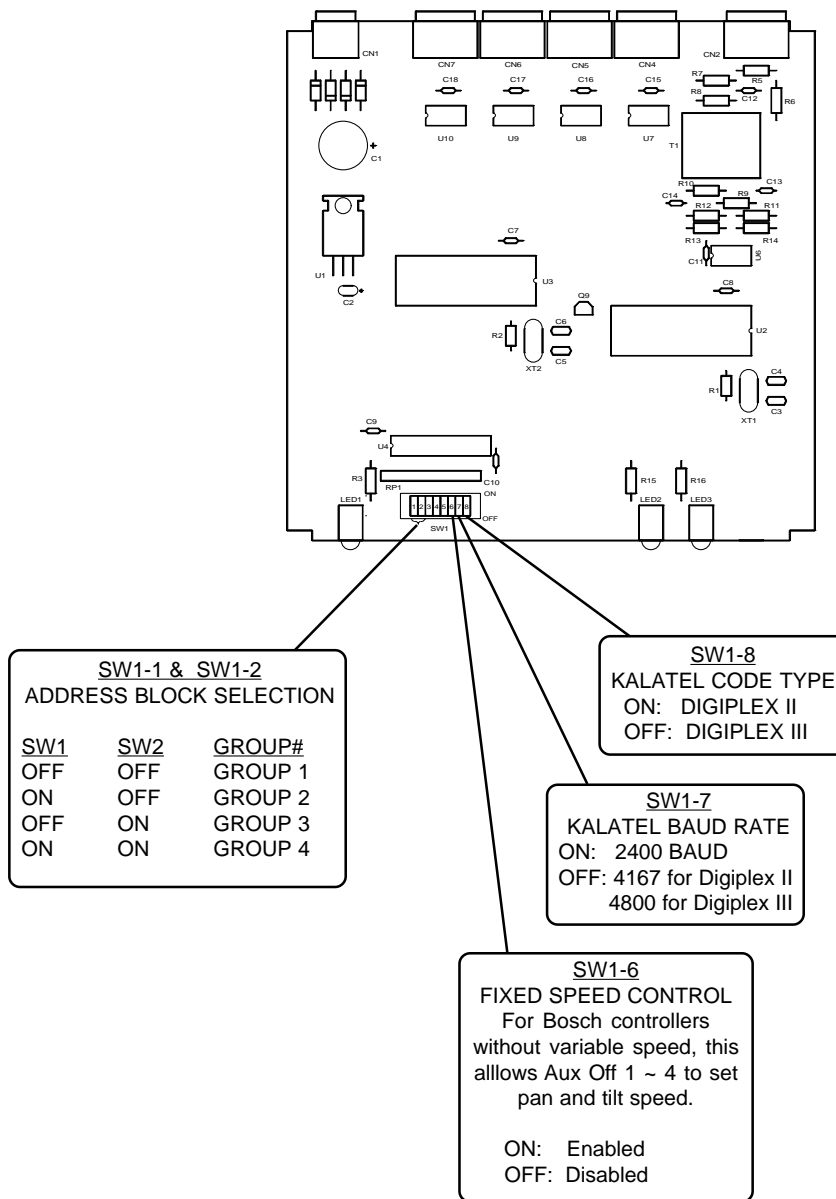
SIZE:	5.57"W x 1.52H x 5.45D
WEIGHT:	1.5 lbs.
POWER:	9Volt to 18Volt AC or DC at .75 Watts
INDICATORS:	Front panel LEDs: Power, Rx, & Tx
BIPHASE INPUT:	(1) 3-pin mating screw terminal connector
KALATEL RS-422 OUTPUTS:	(4) 3-pin mating screw terminal connectors

## SETTING THE CONFIGURATION SWITCHES

Switches 1 and 2 determine which of the four blocks of Bosch camera addresses will be converted to Kalatel Digiplex III addresses 0 to 255, or Digiplex II addresses 0 to 95.

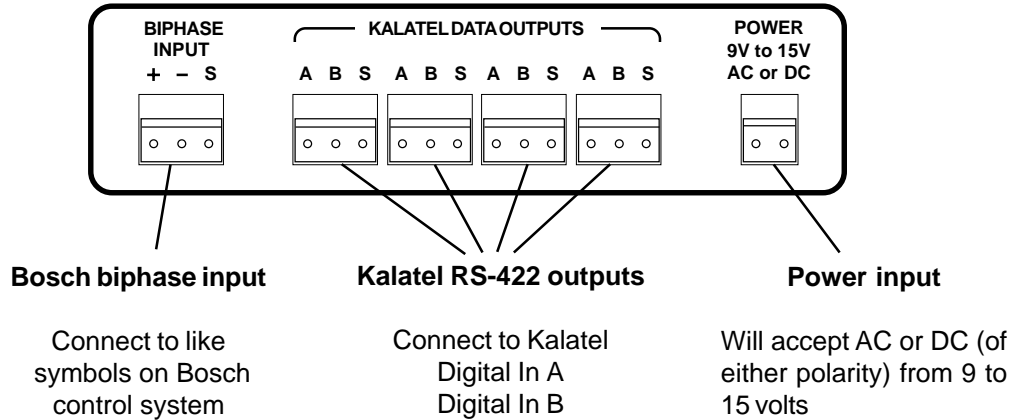
Switch 6 selects whether Bosch "Aux Off" 1 to 4 is used to change the speed value for fixed speed controllers.

To set the configuration switches, remove the back panel, which is secured by two screws. Then slide the cover back to expose the switches. The switches can be changed while the code translator is powered up and the new settings will take effect immediately.



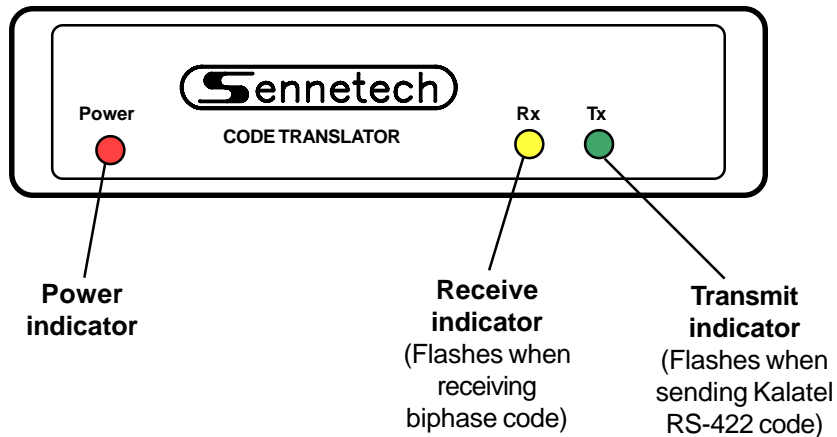
## INSTALLATION

### REAR PANEL



Note: For shielded wiring, connect the shield to the pin labeled "S."

### FRONT PANEL



The Rx indicator will flash when any Bosch code is received. The Tx indicator flashes when the translator sends Kalatel code. Bosch and Kalatel both use repeating PTZ control code. The Rx and Tx indicators should flicker constantly as long as a camera is being moved. Other commands, such as presets, are not repeated. The indicators should only flash once for these commands.

Some Bosch control systems periodically send non-camera control data. This data is not converted into Kalatel data, so the Tx indicator will not flash. Also, if the Bosch camera address is outside the group selected by the configuration switches, the code will not be converted and the Tx indicator will not flash.

## OPERATION

Bosch Pan, Tilt, Zoom, Focus, and Iris commands are converted to the equivalent Kalatel commands. Additional Bosch commands will be converted to Kalatel commands according to the following table.

<u>BOSCH COMMAND</u>	<u>KALATEL COMMAND</u>
[Shot] [1~64]	Find Preset 0~63
[Set] [1~ 64]	Program Preset 0~63

Note: Kalatel uses some presets for special dome commands.

[Set][63]	Set Autopan Left Limit
[Set][64]	Set Autopan Right Limit
[On][2]	Autopan
[On][4]	Auto Focus
[On][51]	Activate Preset Tour 1
[On][52]	Activate Preset Tour 2
[On][53]	Activate Preset Tour 3
[On][54]	Activate Preset Tour 4

### Fixed speed controllers

If configuration Switch 6 is on, for controllers not capable of sending variable speed commands, the code translator will assign a speed to the Kalatel Pan and Tilt commands. The operator can set one of four speeds using the [Off] command.

[Off][1]	Set Speed 1
[Off][2]	Set Speed 2
[Off][3]	Set Speed 3
[Off][4]	Set Speed 4



**DIGIPLEX II ADDRESS CONVERSION**

<b>BLOCK 1</b>		<b>BLOCK 2</b>		<b>BLOCK 3</b>		<b>BLOCK 4</b>									
<b>SW 1 OFF SW 2 OFF</b>		<b>SW 1 ON SW 2 OFF</b>		<b>SW 1 OFF SW 2 ON</b>		<b>SW 1 ON SW 2 ON</b>									
<u>BP</u>	<u>KAL</u>	<u>BP</u>	<u>KAL</u>	<u>BP</u>	<u>KAL</u>	<u>BP</u>	<u>KAL</u>								
		48	48	96	0	144	48	192	0	240	48	288	0	336	48
1	1	49	49	97	1	145	49	193	1	241	49	289	1	337	49
2	2	50	50	98	2	146	50	194	2	242	50	290	2	338	50
3	3	51	51	99	3	147	51	195	3	243	51	291	3	339	51
4	4	52	52	100	4	148	52	196	4	244	52	292	4	340	52
5	5	53	53	101	5	149	53	197	5	245	53	293	5	341	53
6	6	54	54	102	6	150	54	198	6	246	54	294	6	342	54
7	7	55	55	103	7	151	55	199	7	247	55	295	7	343	55
8	8	56	56	104	8	152	56	200	8	248	56	296	8	344	56
9	9	57	57	105	9	153	57	201	9	249	57	297	9	345	57
10	10	58	58	106	10	154	58	202	10	250	58	298	10	346	58
11	11	59	59	107	11	155	59	203	11	251	59	299	11	347	59
12	12	60	60	108	12	156	60	204	12	252	60	300	12	348	60
13	13	61	61	109	13	157	61	205	13	253	61	301	13	349	61
14	14	62	62	110	14	158	62	206	14	254	62	302	14	350	62
15	15	63	63	111	15	159	63	207	15	255	63	303	15	351	63
16	16	64	64	112	16	160	64	208	16	256	64	304	16	352	64
17	17	65	65	113	17	161	65	209	17	257	65	305	17	353	65
18	18	66	66	114	18	162	66	210	18	258	66	306	18	354	66
19	19	67	67	115	19	163	67	211	19	259	67	307	19	355	67
20	20	68	68	116	20	164	68	212	20	260	68	308	20	356	68
21	21	69	69	117	21	165	69	213	21	261	69	309	21	357	69
22	22	70	70	118	22	166	70	214	22	262	70	310	22	358	70
23	23	71	71	119	23	167	71	215	23	263	71	311	23	359	71
24	24	72	72	120	24	168	72	216	24	264	72	312	24	360	72
25	25	73	73	121	25	169	73	217	25	265	73	313	25	361	73
26	26	74	74	122	26	170	74	218	26	266	74	314	26	362	74
27	27	75	75	123	27	171	75	219	27	267	75	315	27	363	75
28	28	76	76	124	28	172	76	220	28	268	76	316	28	364	76
29	29	77	77	125	29	173	77	221	29	269	77	317	29	365	77
30	30	78	78	126	30	174	78	222	30	270	78	318	30	366	78
31	31	79	79	127	31	175	79	223	31	271	79	319	31	367	79
32	32	80	80	128	32	176	80	224	32	272	80	320	32	368	80
33	33	81	81	129	33	177	81	225	33	273	81	321	33	369	81
34	34	82	82	130	34	178	82	226	34	274	82	322	34	370	82
35	35	83	83	131	35	179	83	227	35	275	83	323	35	371	83
36	36	84	84	132	36	180	84	228	36	276	84	324	36	372	84
37	37	85	85	133	37	181	85	229	37	277	85	325	37	373	85
38	38	86	86	134	38	182	86	230	38	278	86	326	38	374	86
39	39	87	87	135	39	183	87	231	39	279	87	327	39	375	87
40	40	88	88	136	40	184	88	232	40	280	88	328	40	376	88
41	41	89	89	137	41	185	89	233	41	281	89	329	41	377	89
42	42	90	90	138	42	186	90	234	42	282	90	330	42	378	90
43	43	91	91	139	43	187	91	235	43	283	91	331	43	379	91
44	44	92	92	140	44	188	92	236	44	284	92	332	44	380	92
45	45	93	93	141	45	189	93	237	45	285	93	333	45	381	93
46	46	94	94	142	46	190	94	238	46	286	94	334	46	382	94
47	47	95	95	143	47	191	95	239	47	287	95	335	47	383	95

DIGIPLEX III ADDRESS CONVERSION - BLOCK 1 (SW1 OFF, SW2 OFF)

BP	KAL	BP	KAL	BP	KAL	BP	KAL	BP	KAL
		52	52	104	104	156	156	208	208
1	1	53	53	105	105	157	157	209	209
2	2	54	54	106	106	158	158	210	210
3	3	55	55	107	107	159	159	211	211
4	4	56	56	108	108	160	160	212	212
5	5	57	57	109	109	161	161	213	213
6	6	58	58	110	110	162	162	214	214
7	7	59	59	111	111	163	163	215	215
8	8	60	60	112	112	164	164	216	216
9	9	61	61	113	113	165	165	217	217
10	10	62	62	114	114	166	166	218	218
11	11	63	63	115	115	167	167	219	219
12	12	64	64	116	116	168	168	220	220
13	13	65	65	117	117	169	169	221	221
14	14	66	66	118	118	170	170	222	222
15	15	67	67	119	119	171	171	223	223
16	16	68	68	120	120	172	172	224	224
17	17	69	69	121	121	173	173	225	225
18	18	70	70	122	122	174	174	226	226
19	19	71	71	123	123	175	175	227	227
20	20	72	72	124	124	176	176	228	228
21	21	73	73	125	125	177	177	229	229
22	22	74	74	126	126	178	178	230	230
23	23	75	75	127	127	179	179	231	231
24	24	76	76	128	128	180	180	232	232
25	25	77	77	129	129	181	181	233	233
26	26	78	78	130	130	182	182	234	234
27	27	79	79	131	131	183	183	235	235
28	28	80	80	132	132	184	184	236	236
29	29	81	81	133	133	185	185	237	237
30	30	82	82	134	134	186	186	238	238
31	31	83	83	135	135	187	187	239	239
32	32	84	84	136	136	188	188	240	240
33	33	85	85	137	137	189	189	241	241
34	34	86	86	138	138	190	190	242	242
35	35	87	87	139	139	191	191	243	243
36	36	88	88	140	140	192	192	244	244
37	37	89	89	141	141	193	193	245	245
38	38	90	90	142	142	194	194	246	246
39	39	91	91	143	143	195	195	247	247
40	40	92	92	144	144	196	196	248	248
41	41	93	93	145	145	197	197	249	249
42	42	94	94	146	146	198	198	250	250
43	43	95	95	147	147	199	199	251	251
44	44	96	96	148	148	200	200	252	252
45	45	97	97	149	149	201	201	253	253
46	46	98	98	150	150	202	202	254	254
47	47	99	99	151	151	203	203	255	255
48	48	100	100	152	152	204	204		
49	49	101	101	153	153	205	205		
50	50	102	102	154	154	206	206		
51	51	103	103	155	155	207	207		



DIGIPLEX III ADDRESS CONVERSION - BLOCK 2 (SW1 ON, SW2 OFF)

BP	KAL	BP	KAL	BP	KAL	BP	KAL	BP	KAL
256	0	308	52	360	104	412	156	464	208
257	1	309	53	361	105	413	157	465	209
258	2	310	54	362	106	414	158	466	210
259	3	311	55	363	107	415	159	467	211
260	4	312	56	364	108	416	160	468	212
261	5	313	57	365	109	417	161	469	213
262	6	314	58	366	110	418	162	470	214
263	7	315	59	367	111	419	163	471	215
264	8	316	60	368	112	420	164	472	216
265	9	317	61	369	113	421	165	473	217
266	10	318	62	370	114	422	166	474	218
267	11	319	63	371	115	423	167	475	219
268	12	320	64	372	116	424	168	476	220
269	13	321	65	373	117	425	169	477	221
270	14	322	66	374	118	426	170	478	222
271	15	323	67	375	119	427	171	479	223
272	16	324	68	376	120	428	172	480	224
273	17	325	69	377	121	429	173	481	225
274	18	326	70	378	122	430	174	482	226
275	19	327	71	379	123	431	175	483	227
276	20	328	72	380	124	432	176	484	228
277	21	329	73	381	125	433	177	485	229
278	22	330	74	382	126	434	178	486	230
279	23	331	75	383	127	435	179	487	231
280	24	332	76	384	128	436	180	488	232
281	25	333	77	385	129	437	181	489	233
282	26	334	78	386	130	438	182	490	234
283	27	335	79	387	131	439	183	491	235
284	28	336	80	388	132	440	184	492	236
285	29	337	81	389	133	441	185	493	237
286	30	338	82	390	134	442	186	494	238
287	31	339	83	391	135	443	187	495	239
288	32	340	84	392	136	444	188	496	240
289	33	341	85	393	137	445	189	497	241
290	34	342	86	394	138	446	190	498	242
291	35	343	87	395	139	447	191	499	243
292	36	344	88	396	140	448	192	500	244
293	37	345	89	397	141	449	193	501	245
294	38	346	90	398	142	450	194	502	246
295	39	347	91	399	143	451	195	503	247
296	40	348	92	400	144	452	196	504	248
297	41	349	93	401	145	453	197	505	249
298	42	350	94	402	146	454	198	506	250
299	43	351	95	403	147	455	199	507	251
300	44	352	96	404	148	456	200	508	252
301	45	353	97	405	149	457	201	509	253
302	46	354	98	406	150	458	202	510	254
303	47	355	99	407	151	459	203	511	255
304	48	356	100	408	152	460	204		
305	49	357	101	409	153	461	205		
306	50	358	102	410	154	462	206		
307	51	359	103	411	155	463	207		

DIGIPLEX III ADDRESS CONVERSION - BLOCK 3 (SW1 OFF, SW2 ON)

BP	KAL	BP	KAL	BP	KAL	BP	KAL	BP	KAL
512	0	564	52	616	104	668	156	720	208
513	1	565	53	617	105	669	157	721	209
514	2	566	54	618	106	670	158	722	210
515	3	567	55	619	107	671	159	723	211
516	4	568	56	620	108	672	160	724	212
517	5	569	57	621	109	673	161	725	213
518	6	570	58	622	110	674	162	726	214
519	7	571	59	623	111	675	163	727	215
520	8	572	60	624	112	676	164	728	216
521	9	573	61	625	113	677	165	729	217
522	10	574	62	626	114	678	166	730	218
523	11	575	63	627	115	679	167	731	219
524	12	576	64	628	116	680	168	732	220
525	13	577	65	629	117	681	169	733	221
526	14	578	66	630	118	682	170	734	222
527	15	579	67	631	119	683	171	735	223
528	16	580	68	632	120	684	172	736	224
529	17	581	69	633	121	685	173	737	225
530	18	582	70	634	122	686	174	738	226
531	19	583	71	635	123	687	175	739	227
532	20	584	72	636	124	688	176	740	228
533	21	585	73	637	125	689	177	741	229
534	22	586	74	638	126	690	178	742	230
535	23	587	75	639	127	691	179	743	231
536	24	588	76	640	128	692	180	744	232
537	25	589	77	641	129	693	181	745	233
538	26	590	78	642	130	694	182	746	234
539	27	591	79	643	131	695	183	747	235
540	28	592	80	644	132	696	184	748	236
541	29	593	81	645	133	697	185	749	237
542	30	594	82	646	134	698	186	750	238
543	31	595	83	647	135	699	187	751	239
544	32	596	84	648	136	700	188	752	240
545	33	597	85	649	137	701	189	753	241
546	34	598	86	650	138	702	190	754	242
547	35	599	87	651	139	703	191	755	243
548	36	600	88	652	140	704	192	756	244
549	37	601	89	653	141	705	193	757	245
550	38	602	90	654	142	706	194	758	246
551	39	603	91	655	143	707	195	759	247
552	40	604	92	656	144	708	196	760	248
553	41	605	93	657	145	709	197	761	249
554	42	606	94	658	146	710	198	762	250
555	43	607	95	659	147	711	199	763	251
556	44	608	96	660	148	712	200	764	252
557	45	609	97	661	149	713	201	765	253
558	46	610	98	662	150	714	202	766	254
559	47	611	99	663	151	715	203	767	255
560	48	612	100	664	152	716	204		
561	49	613	101	665	153	717	205		
562	50	614	102	666	154	718	206		
563	51	615	103	667	155	719	207		

DIGIPLEX III ADDRESS CONVERSION - BLOCK 4 (SW1 ON, SW2 ON)

BP	KAL	BP	KAL	BP	KAL	BP	KAL	BP	KAL
768	0	820	52	872	104	924	156	976	208
769	1	821	53	873	105	925	157	977	209
770	2	822	54	874	106	926	158	978	210
771	3	823	55	875	107	927	159	979	211
772	4	824	56	876	108	928	160	980	212
773	5	825	57	877	109	929	161	981	213
774	6	826	58	878	110	930	162	982	214
775	7	827	59	879	111	931	163	983	215
776	8	828	60	880	112	932	164	984	216
777	9	829	61	881	113	933	165	985	217
778	10	830	62	882	114	934	166	986	218
779	11	831	63	883	115	935	167	987	219
780	12	832	64	884	116	936	168	988	220
781	13	833	65	885	117	937	169	989	221
782	14	834	66	886	118	938	170	990	222
783	15	835	67	887	119	939	171	991	223
784	16	836	68	888	120	940	172	992	224
785	17	837	69	889	121	941	173	993	225
786	18	838	70	890	122	942	174	994	226
787	19	839	71	891	123	943	175	995	227
788	20	840	72	892	124	944	176	996	228
789	21	841	73	893	125	945	177	997	229
790	22	842	74	894	126	946	178	998	230
791	23	843	75	895	127	947	179	999	231
792	24	844	76	896	128	948	180	1000	232
793	25	845	77	897	129	949	181	1001	233
794	26	846	78	898	130	950	182	1002	234
795	27	847	79	899	131	951	183	1003	235
796	28	848	80	900	132	952	184	1004	236
797	29	849	81	901	133	953	185	1005	237
798	30	850	82	902	134	954	186	1006	238
799	31	851	83	903	135	955	187	1007	239
800	32	852	84	904	136	956	188	1008	240
801	33	853	85	905	137	957	189	1009	241
802	34	854	86	906	138	958	190	1010	242
803	35	855	87	907	139	959	191	1011	243
804	36	856	88	908	140	960	192	1012	244
805	37	857	89	909	141	961	193	1013	245
806	38	858	90	910	142	962	194	1014	246
807	39	859	91	911	143	963	195	1015	247
808	40	860	92	912	144	964	196	1016	248
809	41	861	93	913	145	965	197	1017	249
810	42	862	94	914	146	966	198	1018	250
811	43	863	95	915	147	967	199	1019	251
812	44	864	96	916	148	968	200	1020	252
813	45	865	97	917	149	969	201	1021	253
814	46	866	98	918	150	970	202	1022	254
815	47	867	99	919	151	971	203	1023	255
816	48	868	100	920	152	972	204		
817	49	869	101	921	153	973	205		
818	50	870	102	922	154	974	206		
819	51	871	103	923	155	975	207		

