

**Sennetech**

**SCT-1054**

**CAMERA CONTROL CODE TRANSLATOR  
SENSORMATIC RS-422 to KALATEL RS-422 Ver. 2.1**

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## PRODUCT DESCRIPTION

The SCT-1054 is a Sensormatic to Kalatel control code translator designed to permit control of Kalatel cameras from Sensormatic RS-422 controllers. It receives Sensormatic RS-422 commands and converts them to the appropriate Kalatel RS-422 Digiplex commands. There are four independent Kalatel outputs.

Input and response are Sensormatic RS-422 at 4800 baud.

The output is switch-selectable for Kalatel Digiplex III at 2400 or 4800 baud, or Digiplex II at 2400 or 4167 baud.

Input and output connections are made with mating screw terminal connectors. Front panel LEDs indicate power, receive, transmit, and status.

There is an optional 19" rack mount panel (one rack unit high).

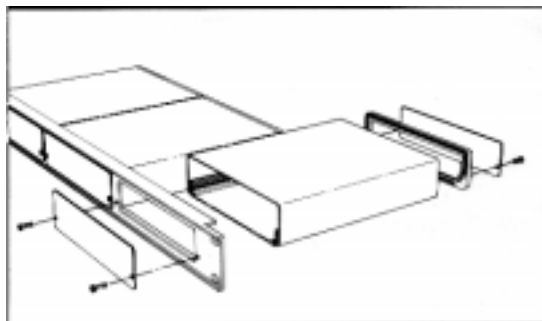
Version 2.0 adds support for address groups of 99 or 256, address offsets, and Kalatel addresses up to 512.

Version 2.1 adds support for presets up to 63.

## SPECIFICATIONS

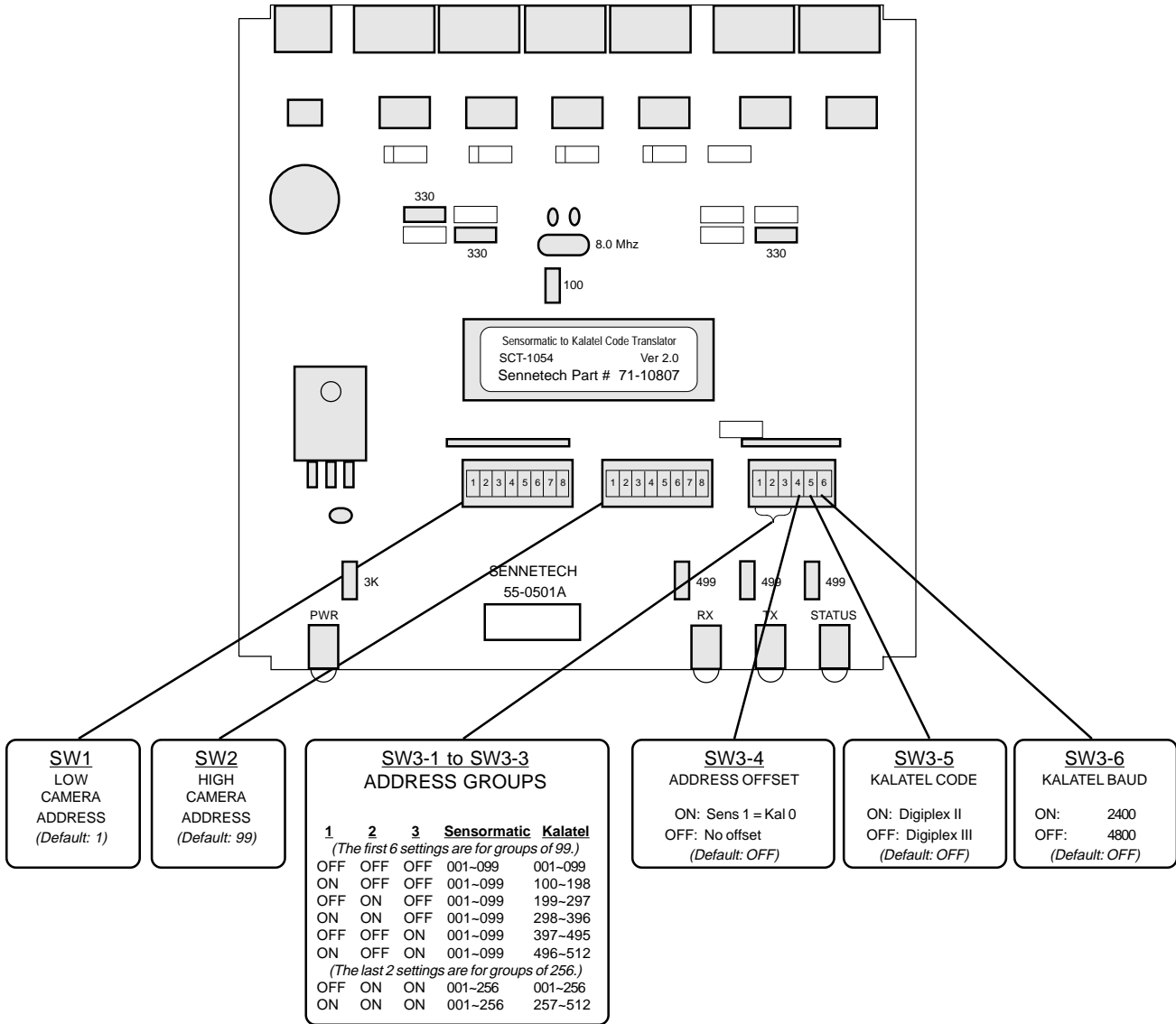
SIZE:	19"W x 1.75H x 5.45D
WEIGHT:	1.5 lbs.
POWER:	9Volt to 18Volt AC or DC at .75 Watts
INDICATORS:	Front panel LEDs: Power, Rx, Tx, and Status
SENSORMATIC RS-422 INPUT:	(1) 3-pin mating screw terminal connector
SENSORMATIC RS-422 RESPONSE:	(1) 3-pin mating screw terminal connector
KALATEL RS-422 OUTPUTS:	(4) 3-pin mating screw terminal connectors

To install the case on the rack mount frame, remove the front panel and the plastic bezel. The rack mount frame takes the place of the bezel as shown below.



## SETTING THE SWITCHES

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.



The code translator will send responses and translate code only for the group of camera numbers set by the low and high camera address switches. The switches should be set to exclude the addresses of any Sensormatic cameras in the system so that there will not be a conflict on the response lines.

Although the Sensormatic code supports 256 addresses, many control systems are limited to 99 addresses on a data line. For example, an AD2083-02 can control cameras 1 ~ 99 on one connector block, cameras 100~198 on a second connector block, and 199~297 on a third connector block. The control packets from each block will have addresses from 1~99, so each block requires a separate code translator.

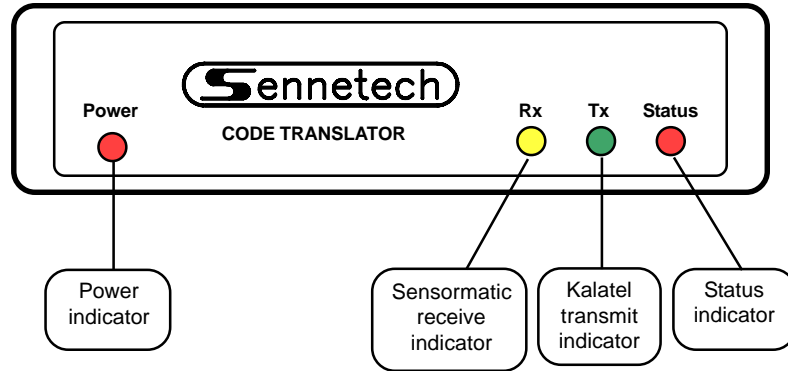
Kalatel can address 512 cameras on a data line. Using the address group switches, the input addresses 1~99 can be converted to Kalatel addresses up to 512.

Kalatel address switch range is 000~511. Zero is a valid address on most Kalatel control systems. Some Kalatel controllers can be set to offset the address so "Camera 1" on the controller sends packets addressed to Camera 0. If SW3-4 is ON, the code translator will offset the Kalatel addresses in the same way.

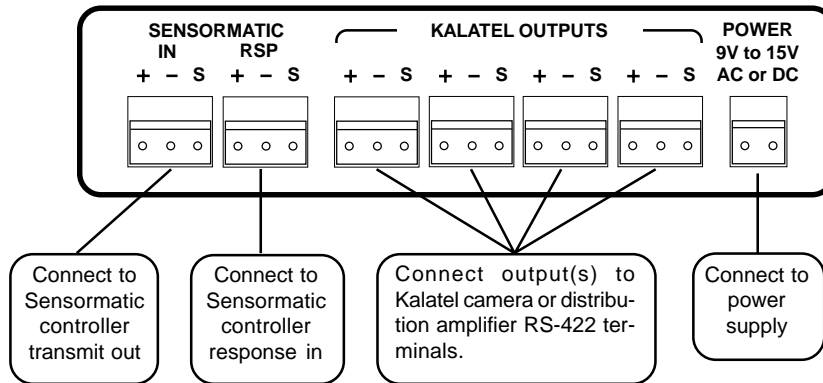


## INSTALLATION

### FRONT PANEL



### REAR PANEL



The Rx LED will light when there is any data on the input lines. If it is on constantly, the input wires are probably reversed.

The Status LED will flash if the input data is not recognized as valid Sensormatic data.

The Tx LED flashes when Kalatel control code is being sent. Kalatel pan, tilt, zoom, and iris code is repeating, so the LED should flash continuously while a camera motor is moving.

## OPERATION

### **PTZ**

The code translator converts Sensormatic Pan, Tilt, Zoom, Focus and Iris code directly into Kalatel code.

### **Presets**

For Sensormatic control systems sending the multiple-byte protocol, Store and Goto Preset commands up to 63 are supported.

Otherwise, preset commands are converted according to the following table (from a TouchTracker controller).

<u>SENSORMATIC COMMAND</u>	<u>KALATEL COMMAND</u>
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When a Program Preshot or Goto Preshot command is sent, the Status indicator will flash to indicate the preshot number.

From a control system that sends Sensormatic "Quick View" commands that store the presets in the dome:

Define Quick View [1~7]	Program Preset 1~7
Quick View [1~7]	Goto Preset 1~7

Some systems, such as an AD2083-02 or VM96 matrix, store preset values in the controller. To define a view, the controller requests position data from the dome, and sends Goto Absolute Position commands to display that view.

When a position request is sent, the code translator sends a Kalatel Program Preshot command and also responds to the controller with the preshot number encoded in the position data. The code translator can store seven preshots for each camera. It will start with number one and advance to the next number each time it receives another position request; after reaching seven it will start over at number one. The Status indicator will show which preshot number is being applied.

When the controller sends a Goto Absolute Position command for a preshot programmed in this manner, the code translator can recover the preshot number and send a Kalatel Goto Preshot command.

### **Autopan**

Run Pattern 3	Autopan
Peel	Autopan

**ADDRESS CONVERSION CHART FOR ROLLOVER AT 99**

GROUP 1				GROUP 2				GROUP 3			
<u>SENS</u>	<u>KAL</u>	<u>SENS</u>	<u>KAL</u>	<u>SENS</u>	<u>KAL</u>	<u>SENS</u>	<u>KAL</u>	<u>SENS</u>	<u>KAL</u>	<u>SENS</u>	<u>KAL</u>
1	1	51	51	1	100	51	150	1	199	51	249
2	2	52	52	2	101	52	151	2	200	52	250
3	3	53	53	3	102	53	152	3	201	53	251
4	4	54	54	4	103	54	153	4	202	54	252
5	5	55	55	5	104	55	154	5	203	55	253
6	6	56	56	6	105	56	155	6	204	56	254
7	7	57	57	7	106	57	156	7	205	57	255
8	8	58	58	8	107	58	157	8	206	58	256
9	9	59	59	9	108	59	158	9	207	59	257
10	10	60	60	10	109	60	159	10	208	60	258
11	11	61	61	11	110	61	160	11	209	61	259
12	12	62	62	12	111	62	161	12	210	62	260
13	13	63	63	13	112	63	162	13	211	63	261
14	14	64	64	14	113	64	163	14	212	64	262
15	15	65	65	15	114	65	164	15	213	65	263
16	16	66	66	16	115	66	165	16	214	66	264
17	17	67	67	17	116	67	166	17	215	67	265
18	18	68	68	18	117	68	167	18	216	68	266
19	19	69	69	19	118	69	168	19	217	69	267
20	20	70	70	20	119	70	169	20	218	70	268
21	21	71	71	21	120	71	170	21	219	71	269
22	22	72	72	22	121	72	171	22	220	72	270
23	23	73	73	23	122	73	172	23	221	73	271
24	24	74	74	24	123	74	173	24	222	74	272
25	25	75	75	25	124	75	174	25	223	75	273
26	26	76	76	26	125	76	175	26	224	76	274
27	27	77	77	27	126	77	176	27	225	77	275
28	28	78	78	28	127	78	177	28	226	78	276
29	29	79	79	29	128	79	178	29	227	79	277
30	30	80	80	30	129	80	179	30	228	80	278
31	31	81	81	31	130	81	180	31	229	81	279
32	32	82	82	32	131	82	181	32	230	82	280
33	33	83	83	33	132	83	182	33	231	83	281
34	34	84	84	34	133	84	183	34	232	84	282
35	35	85	85	35	134	85	184	35	233	85	283
36	36	86	86	36	135	86	185	36	234	86	284
37	37	87	87	37	136	87	186	37	235	87	285
38	38	88	88	38	137	88	187	38	236	88	286
39	39	89	89	39	138	89	188	39	237	89	287
40	40	90	90	40	139	90	189	40	238	90	288
41	41	91	91	41	140	91	190	41	239	91	289
42	42	92	92	42	141	92	191	42	240	92	290
43	43	93	93	43	142	93	192	43	241	93	291
44	44	94	94	44	143	94	193	44	242	94	292
45	45	95	95	45	144	95	194	45	243	95	293
46	46	96	96	46	145	96	195	46	244	96	294
47	47	97	97	47	146	97	196	47	245	97	295
48	48	98	98	48	147	98	197	48	246	98	296
49	49	99	99	49	148	99	198	49	247	99	297
50	50			50	149			50	248		



**ADDRESS CONVERSION CHART, CONT'D.**

<b>GROUP 4</b>				<b>GROUP 5</b>				<b>GROUP 6</b>	
<u>SENS</u>	<u>KAL</u>	<u>SENS</u>	<u>KAL</u>	<u>SENS</u>	<u>KAL</u>	<u>SENS</u>	<u>KAL</u>	<u>SENS</u>	<u>KAL</u>
1	298	51	348	1	397	51	447	1	496
2	299	52	349	2	398	52	448	2	497
3	300	53	350	3	399	53	449	3	498
4	301	54	351	4	400	54	450	4	499
5	302	55	352	5	401	55	451	5	500
6	303	56	353	6	402	56	452	6	501
7	304	57	354	7	403	57	453	7	502
8	305	58	355	8	404	58	454	8	503
9	306	59	356	9	405	59	455	9	504
10	307	60	357	10	406	60	456	10	505
11	308	61	358	11	407	61	457	11	506
12	309	62	359	12	408	62	458	12	507
13	310	63	360	13	409	63	459	13	508
14	311	64	361	14	410	64	460	14	509
15	312	65	362	15	411	65	461	15	510
16	313	66	363	16	412	66	462	16	511
17	314	67	364	17	413	67	463	17	512
18	315	68	365	18	414	68	464		
19	316	69	366	19	415	69	465		
20	317	70	367	20	416	70	466		
21	318	71	368	21	417	71	467		
22	319	72	369	22	418	72	468		
23	320	73	370	23	419	73	469		
24	321	74	371	24	420	74	470		
25	322	75	372	25	421	75	471		
26	323	76	373	26	422	76	472		
27	324	77	374	27	423	77	473		
28	325	78	375	28	424	78	474		
29	326	79	376	29	425	79	475		
30	327	80	377	30	426	80	476		
31	328	81	378	31	427	81	477		
32	329	82	379	32	428	82	478		
33	330	83	380	33	429	83	479		
34	331	84	381	34	430	84	480		
35	332	85	382	35	431	85	481		
36	333	86	383	36	432	86	482		
37	334	87	384	37	433	87	483		
38	335	88	385	38	434	88	484		
39	336	89	386	39	435	89	485		
40	337	90	387	40	436	90	486		
41	338	91	388	41	437	91	487		
42	339	92	389	42	438	92	488		
43	340	93	390	43	439	93	489		
44	341	94	391	44	440	94	490		
45	342	95	392	45	441	95	491		
46	343	96	393	46	442	96	492		
47	344	97	394	47	443	97	493		
48	345	98	395	48	444	98	494		
49	346	99	396	49	445	99	495		
50	347			50	446				

