

Sennetech

SCT-1027

**CAMERA CONTROL CODE TRANSLATOR
KALATEL RS-422 TO PELCO RS-422 Ver. 1.3**

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PRODUCT DESCRIPTION

The SCT-1027 is a Kalatel to Pelco control code translator designed to permit control of Pelco cameras from Kalatel controllers. It receives Kalatel RS-422 commands and re-transmits them as Pelco RS-422 commands. There are four independent Pelco outputs.

Internal switches are used to configure the operation of the code translator. It will accept Kalatel Digiplex II or Digiplex III at low or high baud rates. The output can be Pelco "P" or "D" code. For Pelco receivers that have a maximum address of 32 if configured for "P" code, the Kalatel address can be converted to one of eight groups of 32 Pelco addresses.

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

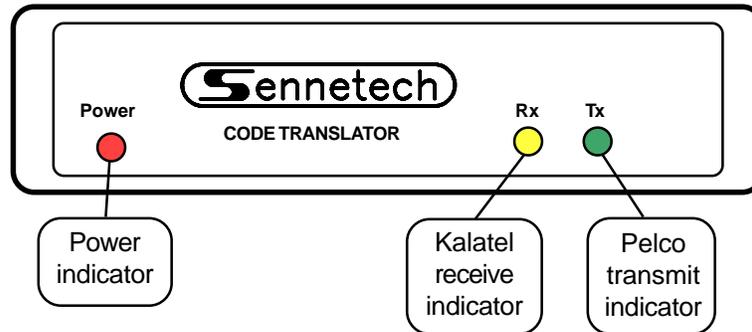
There is an optional 19" rack mount panel (one rack unit high).

SPECIFICATIONS

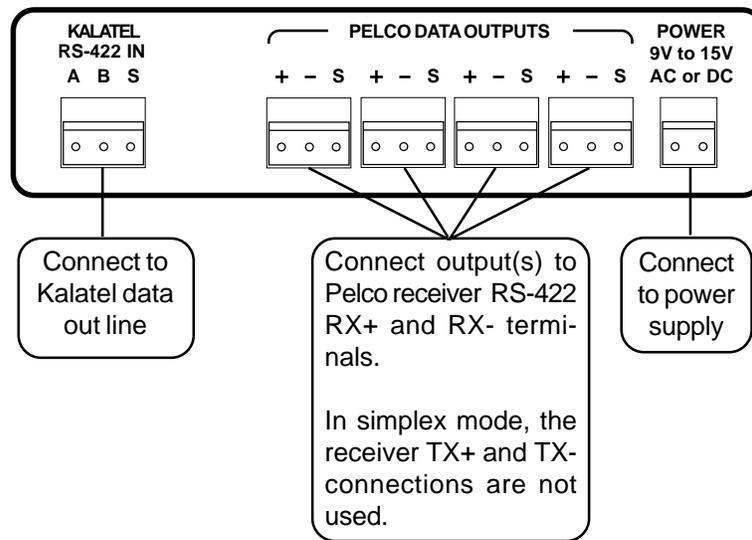
SIZE:	5.57"W x 1.52H x 5.45D
WEIGHT:	1.5 lbs.
POWER:	9Volt to 15Volt AC or DC at 75ma
INDICATORS:	Front panel LEDs: Power, Rx, & Tx
KALATEL CONNECTION:	(1) mating 3-pin screw terminal connector
PELCO CONNECTIONS:	(4) mating 3-pin screw terminal connectors

INSTALLATION

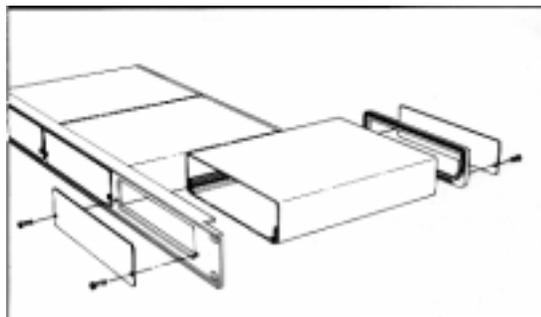
FRONT PANEL



BACK PANEL

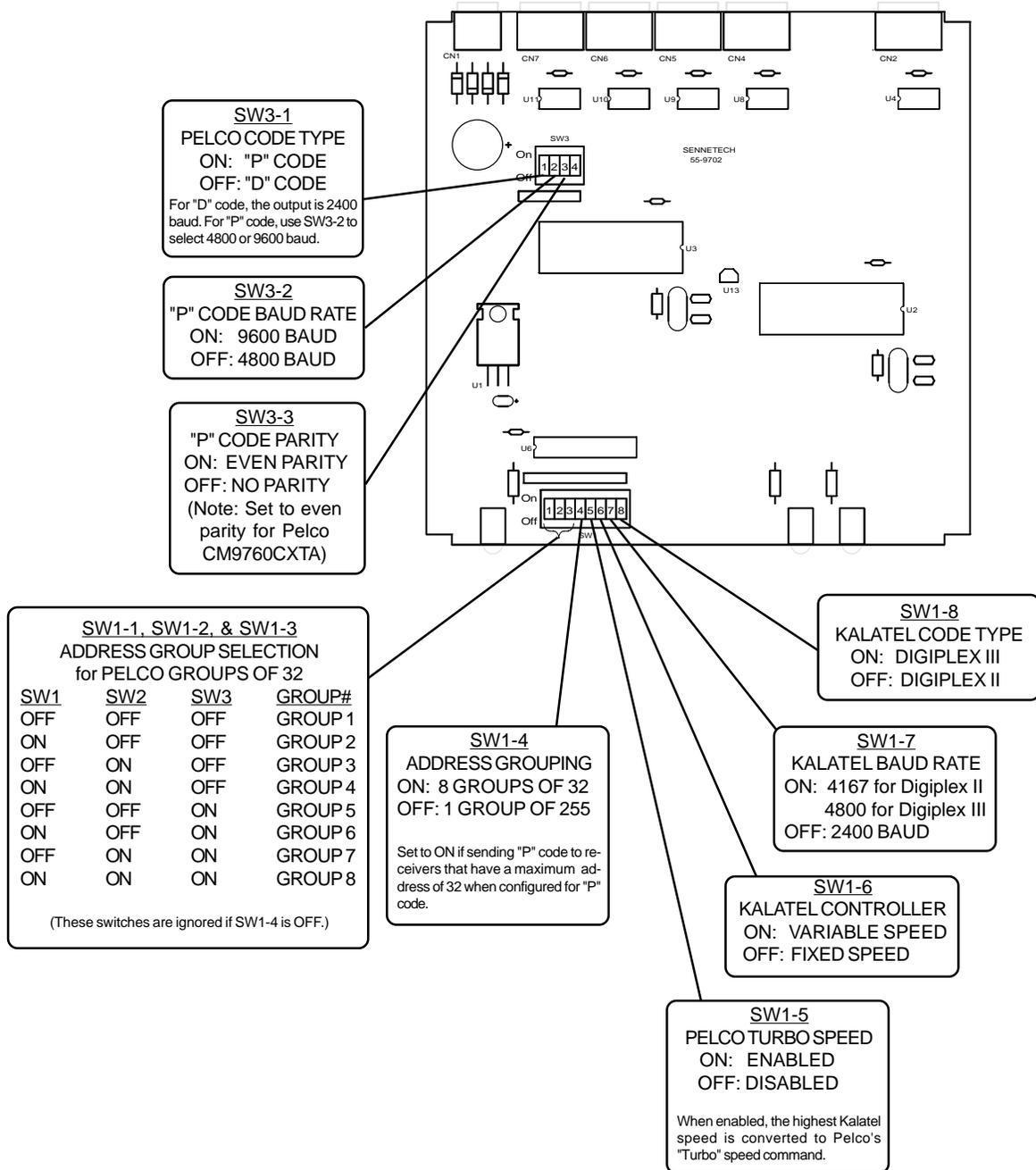


To install the case on the rack mount frame, remove the front panel and the plastic bezel. The rack mount frame takes the place of the bezel as shown below.



SETTING THE SWITCHES

Both Kalatel and Pelco have multiple code types and baud rates. The code translator must be configured to match the codes. 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.



Configuration notes

Kalatel sends a continuous stream of code. When the code translator "locks on" to the code, the Rx indicator will illuminate. If the Kalatel code parameters are not known, change the Kalatel code type and baud rate switches until the indicator lights up. Then momentarily unplug and reinsert the input connector to confirm a "lock." If the Kalatel controller has a vector resolving joystick, configure for a variable speed controller. If not, configure for a fixed speed controller.

Positions 1,2 and 3 of Switch 1 determine how Kalatel camera address numbers are converted to Pelco camera address numbers. If SW1-4 is ON, only the 32 Kalatel addresses in the selected group will pass through the code translator. They will be converted to Pelco addresses from 1 to 32. One of eight groups is selected by Switch 1 positions 1 to 3. If SW1-4 is OFF, the addresses are converted directly and the group numbers are ignored. (Note: Kalatel address 00 is not converted to a Pelco address.)

CONVERSION CHART FOR ADDRESS GROUP SIZE OF 32 (For Pelco receivers that can not have addresses above 32 if configured for "P"code)

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

OPERATION

Pan, Tilt, Zoom, Focus, Iris commands, and presets 1 through 16 are converted directly. For other commands, refer to the diagram for your controller type. For KTD-405 controllers, use [Find] key (instead of [Set] key) to recall presets, use [Store] key to program presets, and press and hold [Tour] for Autopan.

Setting scan limits, recording a pattern for playback, and accessing the dome's on-screen menu are accomplished through a series of keystrokes. The keystroke series starts by pressing and releasing the [Alarm] key followed by recalling a preset number.

Note: the Kalatel pre-positions must be enabled. If presets above 9 are enabled, the preset command requires a two digit number. For example #1 would be [Set] [01] instead of [Set] [1].

Pelco's pattern can be recorded and run as either a full pattern or two halves. To record a pattern, press the appropriate sequence, move the cameras in the desired pattern, then press [Stop] or [Close] to end the recording.

<u>COMMAND</u>	<u>KTD-304/404 KEYBOARDS</u>	<u>KTD-405 KEYBOARD</u>
Run Pattern 1	[Alarm][Set][00][Set][01]	[Tour][01]
Run Pattern 2	[Alarm][Set][00][Set][02]	[Tour][02]
Run Full Pattern	[Alarm][Set][00][Set][03]	[Tour][03]
Record Pattern 1	[Alarm][Set][00][Set][04]	[Alarm][Find][00][Find][04]
Record Pattern 2	[Alarm][Set][00][Set][05]	[Alarm][Find][00][Find][05]
Record Full Pattern	[Alarm][Set][00][Set][06]	[Alarm][Find][00][Find][06]
End Recording	[Stop] or [Close]	[Aux3 (Stop)]
Display On-screen Menu (Use Tilt control to navigate and Iris Open to make selections.)	[Alarm][Set][07][Autopan]	[Alarm][Find][07][Tour- hold]
Set Pan Left Limit	[Alarm][Set][08][Zoom In]	[Alarm][Find][08][Zoom In]
Set Pan Right Limit	[Alarm][Set][08][Zoom Out]	[Alarm][Find][08][Zoom Out]
Set Autopan Left Limit	[Alarm][Set][08][Focus Near]	[Alarm][Find][08][Focus Near]
Set Autopan Right Limit	[Alarm][Set][08][Focus Far]	[Alarm][Find][08][Focus Far]

KTD-301 Keyboard Speeds

If the code translator is configured for a fixed speed Kalatel controller, the [Slow] and [Fast] keys on the KTD-301 will change the speed value for the Pelco pan and tilt commands. (On power-up the translator defaults to a medium speed.)

[Slow]	Decrease speed value
[Fast]	Increase speed value

The KTD-301 cannot simultaneously send commands from keys in the same row or column. Thus, the [Slow] and [Fast] keys will work while pan right is depressed, but [Slow] and pan left will not work at the same time. Likewise, [Fast] will not work while a tilt key is depressed.

Enabling Kalatel Pre-positions

If the Kalatel controller beeps when [Set] is pressed, the presets are probably disabled. To access the controller's programming menu, press and hold [Set] for a few seconds until prompted for a code. Then press [5][7][9][Seq]. The beginning of the programming menu should now be displayed on the LCD panel. Advance through the menu until you get to the Preset Enable section.

KTD-405 Keyboard

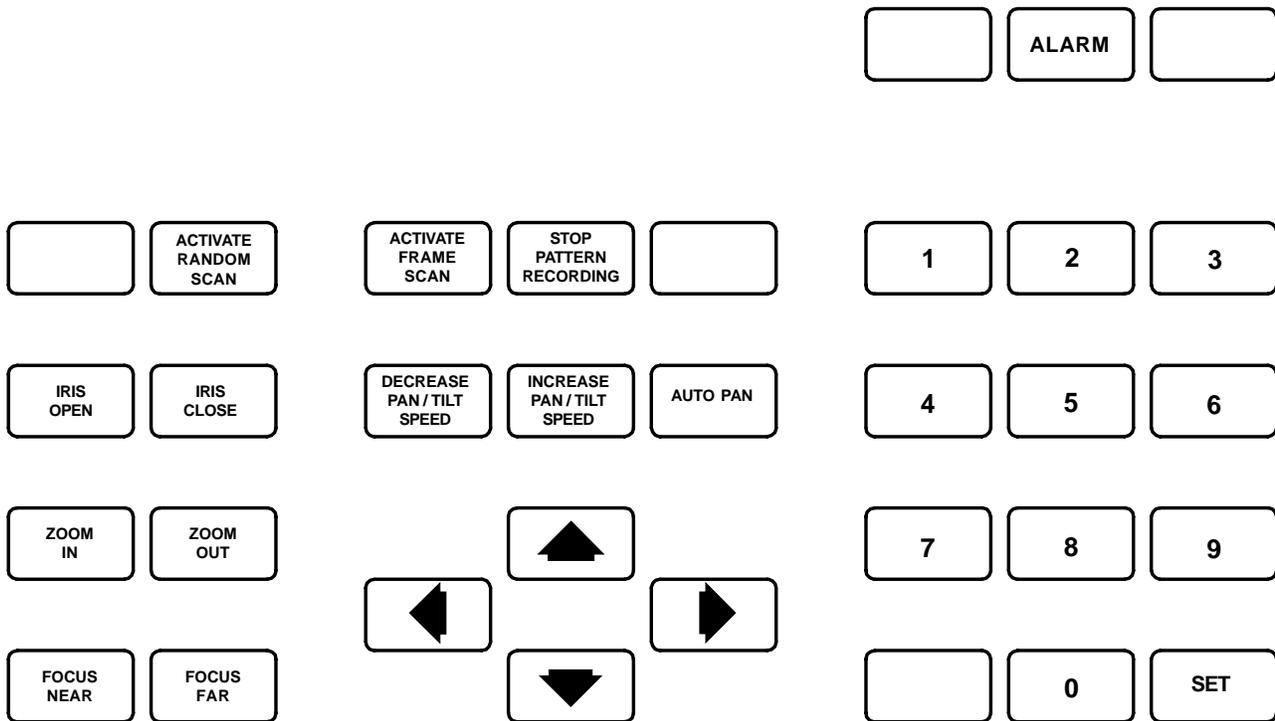
The KTD-405 keyboard does not have an [A/P] key. For autopan, hold the [Tour] key down for two seconds until you hear a beep.

Instead of a [Set] key to recall presets, the KTD-405 has a [Find] key.

Unlike previous keyboards where entering a programming menu was required to store a preset, the KTD-405 has a [Store] key.

The factory default setting for the lowest stored preset on KTD-405 keyboards is #58. To change this to #01, use the supervisor's programming menu. Press and hold the return arrow key until you are prompted for a programming code. Enter [1][4][7][6][Seq] to access the menu and advance through the menu to "Lowest user prgmd preset." Enter [001], then hold [Seq] down for three seconds to exit.

KTD-301 NORMAL KEYBOARD OPERATION



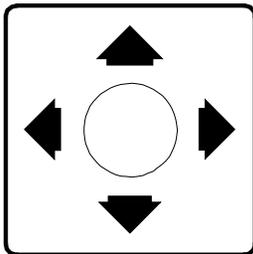
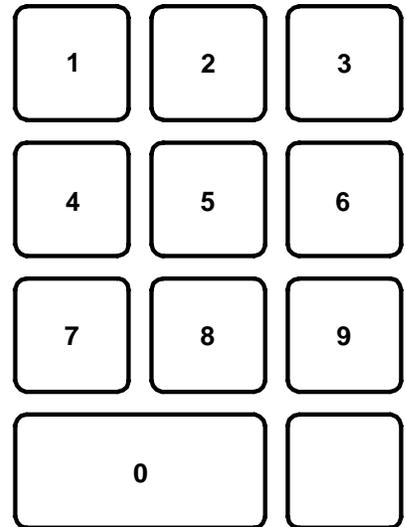
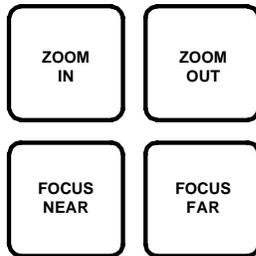
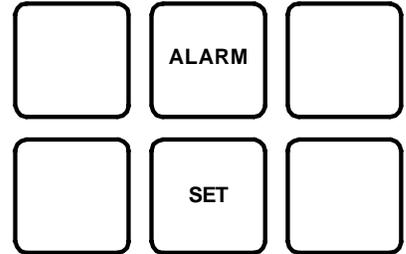
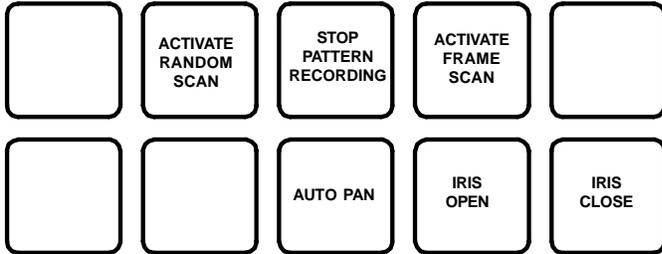
[Alarm] [Set] [#0] [Set] [#1] Run Pattern 1
 [Alarm] [Set] [#0] [Set] [#2] Run Pattern 2
 [Alarm] [Set] [#0] [Set] [#3] Run Full Pattern

[Alarm] [Set] [#0] [Set] [#4] Record Pattern 1
 [Alarm] [Set] [#0] [Set] [#5] Record Pattern 2
 [Alarm] [Set] [#0] [Set] [#6] Record Full Pattern

[Alarm] [Set] [#7] [Autopan] Display On-screen Menu
 (Use Tilt control to navigate and Iris Open to make selections.)

[Alarm] [Set] [#8] [Zoom In] Set Manual Pan Left Limit
 [Alarm] [Set] [#8] [Zoom Out] Set Manual Pan Right Limit
 [Alarm] [Set] [#8] [Focus Near] Set Auto Pan Left Limit
 [Alarm] [Set] [#8] [Focus Far] Set Auto Pan Right Limit

KTD-304 NORMAL KEYBOARD OPERATION



[Alarm] [Set] [#00] [Set] [#01] Run pattern 1
 [Alarm] [Set] [#00] [Set] [#02] Run pattern 2
 [Alarm] [Set] [#00] [Set] [#03] Run full pattern

[Alarm] [Set] [#00] [Set] [#04] Record pattern 1
 [Alarm] [Set] [#00] [Set] [#05] Record pattern 2
 [Alarm] [Set] [#00] [Set] [#06] Record full pattern

[Alarm] [Set] [#07] [Autopan] Display on-screen menu
 (Use Tilt control to navigate and Iris Open make selections.)

[Alarm] [Set] [#08] [Zoom In] Set manual pan left limit
 [Alarm] [Set] [#08] [Zoom Out] Set manual pan right limit
 [Alarm] [Set] [#08] [Focus Near] Set auto pan left limit
 [Alarm] [Set] [#08] [Focus Far] Set auto pan right limit

