



SCT-1006

**CAMERA CONTROL CODE TRANSLATOR
KALATEL RS-422 to BOSCH BIPHASE Ver 4.1**

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-1006 is a Kalatel to Bosch code translator designed to permit control of Bosch cameras from Kalatel controllers. It receives Kalatel commands and transmits the appropriate commands in Allegiant biphasic format. There are four independent biphasic outputs.

The code translator can be configured to send variable speed biphasic code or fixed speed only for compatibility with older Burle receivers.

The code translator will automatically detect the type of Kalatel input code. Upon detection, the PGM indicator will signal the code type and baud rate.

The code translator is contained in a standard 19" electronic housing (one rack unit high). Input and output connections are made with removable screw terminals. Front panel LEDs indicate status of power, receive, transmit, and diagnostic code.

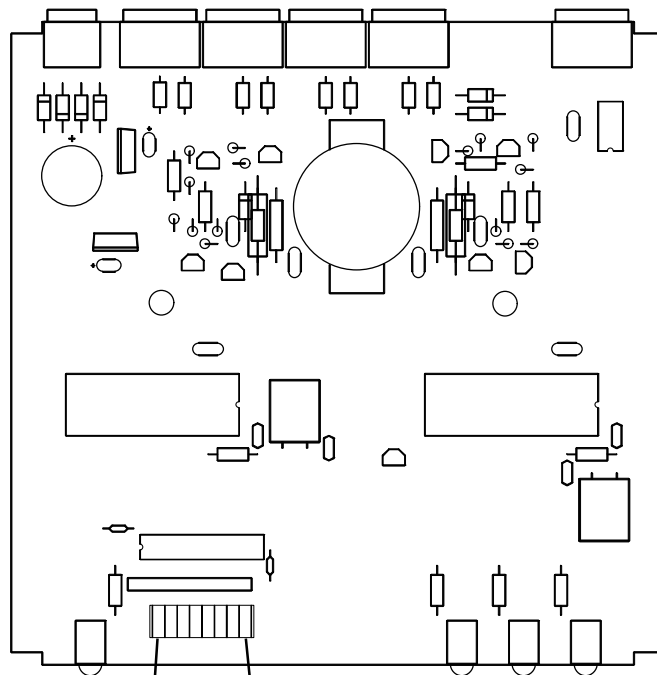
Version 4.1 increases the camera address capability from 256 to 512.

SPECIFICATIONS

SIZE:	19"W x 1.75H x 5.45D
WEIGHT:	1.5 lb
POWER:	12Volt to 15Volt AC or DC at 75ma
INDICATORS:	Front panel LEDs: Power, Rx, Tx, & Pgm
KALATEL RS-422 INPUT:	(1) 3-pin screw terminal plug
ALLEGIANTE BIPHASE OUTPUTS:	(4) 3-pin Screw terminal plug

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 with power applied and the changes take effect immediately.



Switch1-1

Kalatel code type

ON: Variable speed
OFF: Fixed speed

Set to off if connecting to KTD301 or any controller without a joystick

Switch1-8

Biphase code type

ON: Variable speed
OFF: Fixed speed

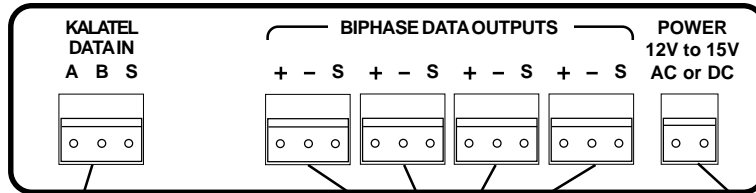
Set to off if connecting to older Burle receivers that can't accept variable speed biphase code.

Note for KTD301 controllers:

If the code translator is being installed into a system with a KTD301 controller without a joystick, and the receivers have autospeed capability, set the biphase code to fixed speed to utilize the autospeed function.

INSTALLATION

REAR PANEL

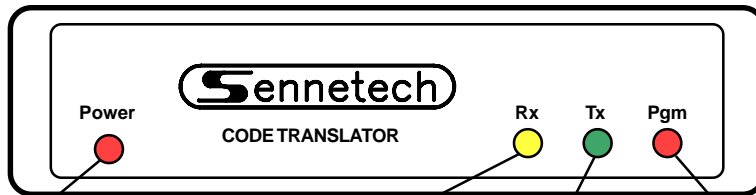


Connect to Kalatel Digital Out A and Digital Out B. If shielded wire is used, connect the shield to "S".

Connect biphasse outputs to Bosch receiver/drivers or autodomes. The four outputs are identical.

Connect TC120PS to the power input. Polarity of input power is irrelevant.

FRONT PANEL



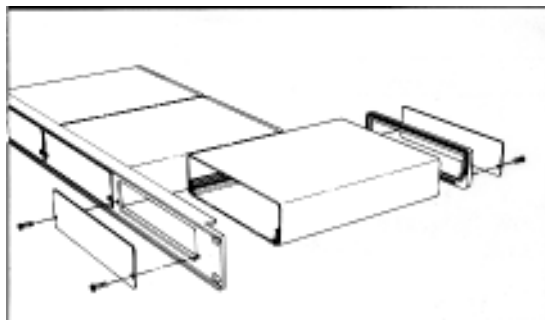
Power Indicator

Receive Indicator
(Glow dimmly when receiving Kalatel code. Flickers when Kalatel is sending camera control code.)

Transmit Indicator
(Flashes when sending biphasse code.)

Program Indicator
Flashes autobaud code and identifies code from [On/+10][Off/+100] keys.

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.



The code translator will work with various Kalatel codes; Digiplex II at 2400 or 4167 baud, and Digiplex III at 2400 or 4800 baud. When the Kalatel input lines are connected, the code translator will automatically detect the type of code and flash the PGM indicator to show what was detected. The first group of flashes (two or three) will indicate Digiplex II or Digiplex III which will be followed by a second group (two or four) to indicate 2400 baud or 4167/4800 baud.

Kalatel commands for camera numbers 1~255 will be converted to equivalent Bosch numbers. Kalatel camera #000 will be converted to Bosch camera #256.

Version 4.0 of the code translator uses a different method than earlier versions to send the extensive set of Bosch preposition and auxiliary commands. The "Programming mode" with its look-up tables for specific Bosch commands has been replaced by a method to send any preposition or Off/On number up to 1023. This new method requires identifying two keys on the keyboard that send specific Kalatel commands. These keys will have two functions. They will be used to build up a subtotal by adding 10 or 100, and if an aux# is stored, they will be converted to Bosch Off & On commands. The Pgm indicator will flash when these keys are pressed to help in identifying them.

The various Kalatel controllers do not all have the same keys. Thus, some controllers have functions not found on other controllers. Also, the keys sending the same code, may be labelled differently.

The Kalatel commands that will be converted to Off/On and +10/+100 are:

[Receiver Off / Receiver On]
[Receiver Slow / Receiver Fast]
[Door 1 Open / Door 2 Open].

Once the installer has identified the keys sending one of these sets of commands, it might be helpful to tag them with the labels, [Off/+10] and [On/+100].

OPERATION

TERMINOLOGY

We will use "Parentheses" to indicate a Bosch command and [Brackets] to refer to a Kalatel key. [Off/+10] and [On/100] refer to the two Kalatel keys that have been identified to send those commands.

Pan, tilt, zoom, focus, and iris commands are converted to equivalent Allegiant biphasic commands. Kalatel [Auto] is converted to Bosch "On 2" which will activate the autopan function in Bosch Autodomes.

PAN/TILT SPEEDS

For variable speed controllers such as the KTD-304, the pan and tilt speeds will be determined by the deflection of the joystick.

For KTD-301 controllers, [Slow] and [Fast] will change the speed values of the Bosch pan and tilt commands if the code translator is configured for Fixed speed Kalatel and Variable speed Bosch.

PRESETS

The terminology can be confusing because Bosch uses "Set" command to program a preset and Kalatel uses the [Set] key to goto a preposition which is the Bosch "Shot" command.

Kalatel [Set][#] is converted to Bosch "Shot#" command. Kalatel controllers that are limited to ten (0~9) preset will use a single digit. Controllers that can send higher preset require two digits, for example [Set][0][3] instead of [Set][3].

To program a preset, the Receiver Setup Menu must be accessed on the Kalatel controller by holding [Set] until a access code is requested then pressing [9][5][1][Seq].

(Note: The Kalatel keypad controller must be programmed with Preset Enable "ON". Access this menu with code [5][7][9][Seq] after holding [Set].)

Preset commands that can be issued from the Kalatal controller directly are converted to Bosch "Set" and "Shot" commands.

HIGH PRESET COMMANDS

For higher preset commands, a number can be built up using the [Alarm] and [Off/+10] & [On/+100] keys. The procedure is to build a subtotal by adding 10 or 100 then reaching a total by adding the preset number to the subtotal. The starting subtotal is automatically zero. To add 10 or 100, press and release [Alarm] then press and release either [Off/+10] or [On/+100]. This can be done repeatedly. Then, if a preset number is sent, it will be added to the subtotal to determine the final number.

Once the preset command is sent, the subtotal is cleared to 0. Pressing [Alarm] twice in succession will also clear the subtotal. This is helpful if the operator loses track of the count.

Example:

To send the Bosch "Shot 35" command,

Press [Alarm][Off/+10]	Stores a subtotal of 10
Press [Alarm][Off/+10]	Stores a subtotal of 20
Press [Alarm][Off/+10]	Stores a subtotal of 30
Press [Set][5]	Adds 5 to subtotal and sends Bosch "Shot 35"
	Clears subtotal to 0

Example:

To send the Bosch "Shot 102" command,

Press [Alarm][On/+100]	Stores a subtotal of 100
Press [Set][2]	Adds 2 to subtotal and sends Bosch "Shot 102"
	Subtotal cleared to 0

The subtotal will also be cleared to 0 if any other command (such as pan or tilt) is sent before the correct sequence is completed.

AUXILIARY COMMANDS

To send an auxiliary command, an aux# must first be stored. Then, using the two keys identified as [Off/+10] & [On/+100], that # is sent as Bosch "Off #" or "On#". To store an aux#, press and release [Alarm] and [Auto]. Then press [Set][#] to store that number as an aux#.

Example:

To send Bosch "Off 4" or "On 4",

Press [Alarm][Auto]	Prepare to store an aux#
Press [Set][4]	Store aux# 4
Press [Off/+10]	Send Bosch "Off 4" command
Press [On/+100]	Send Bosch "On 4" command

The Bosch "Off" & "On" commands are not sent just once, but will be repeated as long as the Kalatel key is depressed. This mimics the way it would be sent from a Bosch controller and is useful for those commands that are used to decrease or increase numerical values. As long as the aux# is stored, the operator can switch back and forth between "Off" and "On".

The aux# will be cleared if any command other than [Off/+10] or [On/+100] is sent or if [Alarm] is pressed again.

If no aux# is stored, the command is not converted and the Tx indicator (green) will not flash.

HIGH AUXILIARY COMMANDS

Higher auxiliary numbers are built up similarly to the method for building high preset numbers. A subtotal is created using [Alarm] and [Off/+10] or [On/+100]. When the desired subtotal is reached, press [Alarm][Auto] to prepare to store an aux#. Then when [Set][#] is pressed, # is added to the subtotal to become the stored aux#.

Example:

To send Bosch "Off 43" or "On 43",

Press [Alarm][Off/+10]	Store a subtotal of 10
Press [Alarm][Off/+10]	Store a subtotal of 20
Press [Alarm][Off/+10]	Store a subtotal of 30
Press [Alarm][Off/+10]	Store a subtotal of 40
Press [Alarm][Auto]	Prepare to store an aux#
Press [Set][3]	Add 3 to subtotal to store aux# 43
Press [Off/+10]	Send Bosch "Off 43" command
Press [On/+100]	Send Bosch "On 43" command

