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# Nikon




KEYSTROKES:    






Models supported:

<i>Driver</i>	<i>Models</i>	<i>Settings</i>
	Topgun 100's, A series, C-100, D-50, DTM	4800-None-8-1
	DTM models set to emulate Lietz SET	1200-None-8-1


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## Setup of Instrument

**A series** - Turn on the main power while depressing the  key. Tilt the scope once through the horizon. Press the  key until the selection option toggles to "NkRS" or "RS-232". Press the  key.

**C-100** - Turn on the main power while depressing the  key. Press the  key until prompted for "DATA RECORDER". Press the  key until "NIKON" is selected. Press the  key. Press the  key.


**DTM 420** - Press  5 (Settings) 6 (System) 3 (Communication) Baud: 4800 Parity: None COM1. Use the NIKN driver on the collector.

Or, press  5 (Settings) 6 (Others) Baud: 4800 Data recorder: Nikon. Use the NIKN driver on the collector.

**DTM 430** - Press  5 (Settings) 6 (Others) ENTER ENTER Baud: 4800 Parity NONE Data recorder: Nikon. Use the NIKN driver on the collector.

Or, press  5 (Settings) 6 (Others) ENTER ENTER Baud: 1200 Data recorder: SET. Use the SET driver on the collector.

**DTM 520** - Press **MENU** 3 (Settings) 6 (Communication). Ext. Comm: NIKON. Baud: 4800. Length: 8. Parity NONE. Stop Bit 1.

**DTM 720/750/830** - Press  3 (Simple Total Station). Set Baud Rate to 1200. Use the SET driver on the collector. Does not support Angles Only mode. Must have AP700, AP800 or TS application card. TDS application card does not support external data collectors.

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## Comments

The Nikon cable looks just like the Topcon and Lietz cables but is wired differently inside.

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## Problem

Setting instrument to use Vertical Angle instead of Zenith Angle results in an elevation difference showing up as the horizontal distance in the data collector.

## Solution

Nikon should be set to use Zenith Angles, not Vertical Angles. Do this by pressing **FUNCTION** **5** (Settings) (angles) and the Up arrow to select 0.

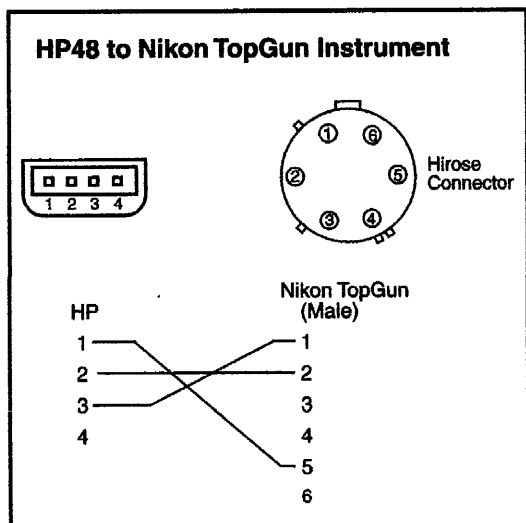


Figure B-8 HP 48 to Nikon TopGun Instrument

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## Pentax

KEYSTROKES: **INST** **NXT** **NXT** **PENT**

Models supported:

<i>Driver</i>	<i>Models</i>	<i>Settings</i>
<b>PENT</b>	PTS-III, 305, 310, PTS 10, PCS-1 some PCS-2's, 500 Series, PTS V5	1200-None-8-1
<b>PNT2</b>	Single shot PCS-2	1200-None-8-1
<b>2WAY</b>	Two-way PTS V3	1200-None-8-1

Does not support 205.

