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Special Application Program VB14N-WH SS4054 Rel. 1.04

Device: VB14N - XXXX

Date of creation: 17 March 2009

The VB14N-WH implements the VB14A performances over the VB14N Hw platform, allowing the compatibility of the applications requiring the VisioSetup interface, i.e. the Escape sequences.

Following are the main differences comparing the product VB14N-WH to the product VB14A:

PINOUT

- RTS and CTS pins of the AUX port are no longer available
- The trigger input is POLARITY INSENSITIVE¹
- A new digital input, **IN2-** named, is available¹

LEDs

- **Status** led: when ON, it indicates the sent command to turn the laser on.
 - In the VB14A the "Laser On" led indicates the physical laser activation.
- **Trigger** led: it indicates the trigger activation, either physically (On Line mode) or logically (Automatic mode).
 - In the VB14A the "Ext Trig" led is hw driven by the trigger activation;
- **Power On (blue)** led: hw driven led, it indicates the Power supply
 - the "Pwr/Txd" led has this function in the VB14A;
- **COM** led: it indicates the data transmission over the MAIN channel only
 - in the VB14A the "Pwr/Txd" led indicates the data transmission over the AUX channel, also

Functions & Options

- The "Hw Store Verifier" function uses the new digital Input 2 (RTS/CTS for the VB14A)
- The template file still shows the option "RTS/CTS" for the Auxiliary Port Handshake, but this option has NO EFFECT.
- The X-PRESS key has no functionality

- **Automatic Mode**

Warning: the current implementation of the Automatic operating mode can work incorrectly if the label background is irregular or noisy. The trouble fixing is in progress and a next release solving the problem is coming soon.

¹ Refer to the VB14N Reference Manual, Section 3.3.5, for more details

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- **Loader**

In order to upload the binary file to the VB14N-WH device, the VisioSetup loader procedure must not be used. Instead, the user has to execute the following steps:

- Open a terminal session (i.e., Hyperterminal) with the Auxiliary port of the device
- Set the line parameters: 115200, N, 8, 1, no flow control
- Turn off & on the device
- Press quickly the <space> + <enter> keys within 1 second
- Just the connection is on, the terminal shows the following menu:

Change application program (press 1)
Run application program (press 2)
Get loader version (press 3)
Erase MIB data sector (press 4)

- Press “1”, select the sending file method², select the binary file to upload, then launch the procedure
- Just the uploading is successfully completed, press “4” and confirm to set the correct initial values
- Press “2” to run the application.

The device is ready for work and/or VisioSetup sessions.

² Using an “Hyperterminal” session, set the “1kXModem” or “XModem” protocol option

CONFIGURATION PARAMETERS

- The VB14N-WH **does not provide** the following 13 VB14A configuration parameters

Advanced Code Options → Max. Noise Elements

Code Setup → Options For Each Code → Code 1 → Code Pos. In Scan Line
 Code Setup → Options For Each Code → Code 1 → Total Codes In Scan Line
 Code Setup → Options For Each Code → Code 2 → Code Pos. In Scan Line
 Code Setup → Options For Each Code → Code 2 → Total Codes In Scan Line
 Code Setup → Options For Each Code → Code 3 → Code Pos. In Scan Line
 Code Setup → Options For Each Code → Code 3 → Total Codes In Scan Line
 Code Setup → Options For Each Code → Code 4 → Code Pos. In Scan Line
 Code Setup → Options For Each Code → Code 4 → Total Codes In Scan Line
 Code Setup → Options For Each Code → Code 5 → Code Pos. In Scan Line
 Code Setup → Options For Each Code → Code 5 → Total Codes In Scan Line
 Code Setup → Options For Each Code → Code 6 → Code Pos. In Scan Line
 Code Setup → Options For Each Code → Code 6 → Total Codes In Scan Line

- The VB14N-WH **adds** the following 16 configuration parameters: 12 of them replace 12 deleted parameters, 4 of them are new parameters

Code Setup → Options For All Codes → Code Position Test (**new**)
 Code Setup → Options For Each Code → Code 1 → Min Pos. In Scan Line (**replacement**)
 Code Setup → Options For Each Code → Code 1 → Max Pos. In Scan Line (**replacement**)
 Code Setup → Options For Each Code → Code 2 → Min Pos. In Scan Line (**replacement**)
 Code Setup → Options For Each Code → Code 2 → Max Pos. In Scan Line (**replacement**)
 Code Setup → Options For Each Code → Code 3 → Min Pos. In Scan Line (**replacement**)
 Code Setup → Options For Each Code → Code 3 → Max Pos. In Scan Line (**replacement**)
 Code Setup → Options For Each Code → Code 4 → Min Pos. In Scan Line (**replacement**)
 Code Setup → Options For Each Code → Code 4 → Max Pos. In Scan Line (**replacement**)
 Code Setup → Options For Each Code → Code 5 → Min Pos. In Scan Line (**replacement**)
 Code Setup → Options For Each Code → Code 5 → Max Pos. In Scan Line (**replacement**)
 Code Setup → Options For Each Code → Code 6 → Min Pos. In Scan Line (**replacement**)
 Code Setup → Options For Each Code → Code 6 → Max Pos. In Scan Line (**replacement**)
 Data Format → Data Format → Code Position Tx (**new**)
 Reading Param → Reading Parameters → Overflow = Automatic (**new**)
 ➤ Reading Param → Reading Parameters → Overflow Ratio (**new**)³

Escape Sequences

The compatibility with the VB14A Host Mode Programming is guaranteed, except:

- the escape sequences linked to the deleted parameters are accepted, even they have no effect;
- the escape sequences linked to the new parameters are added.

³ The value “Automatic” allows the “Overflow Ratio” parameter appearance