

MANUAL

ID-NET™

**SETUP PROCEDURE USING
PROGRAMMING BARCODES**



With regard to the supply of products, the current issue of the following document is applicable: The General Terms of Delivery for Products and Services of the Electrical Industry, published by the Central Association of the Electrical Industry (Zentralverband Elektrotechnik und Elektroindustrie (ZVEI) e.V.) in its most recent version as well as the supplementary clause: "Expanded reservation of proprietorship"



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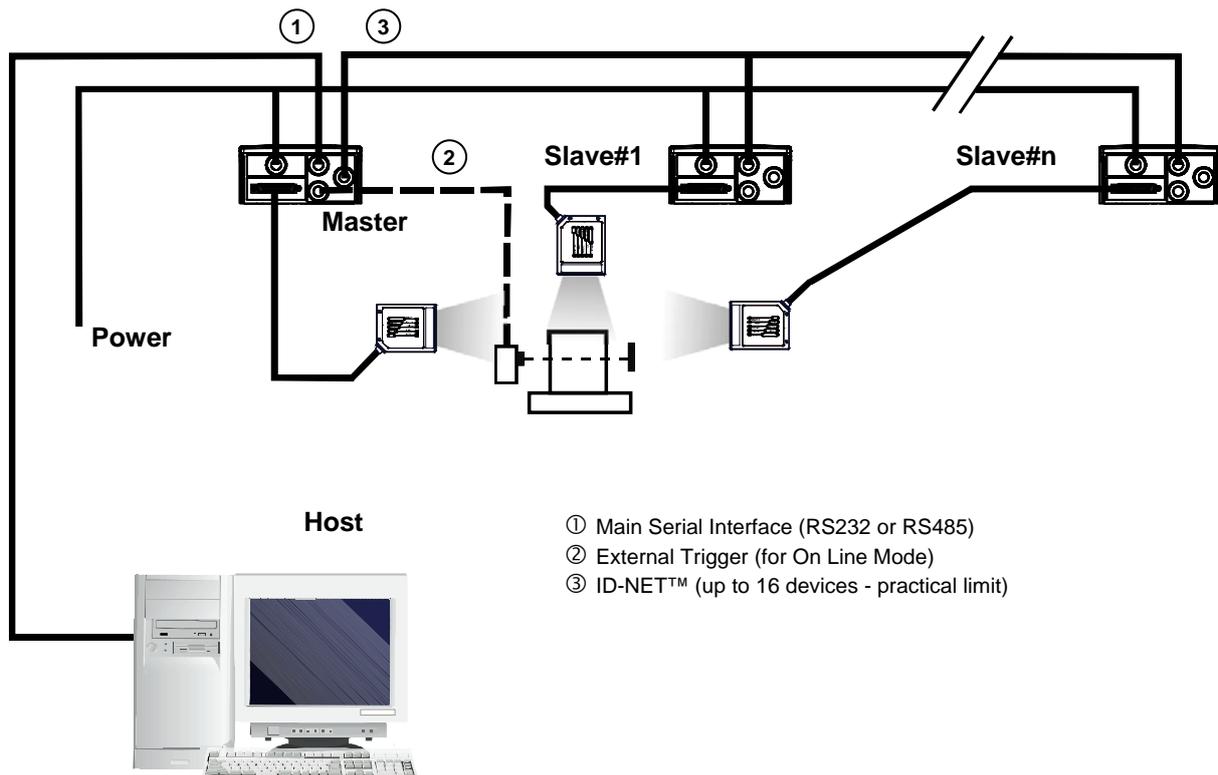
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2 INTRODUCTION

The ID-NET™ is a built-in high-speed interface dedicated for high-speed scanner interconnection. ID-NET™ is in addition to the Main and Auxiliary serial interfaces.

Following topologies are available:

- **ID-NET™ M/S Synchronized:** Single station – multiple scanners

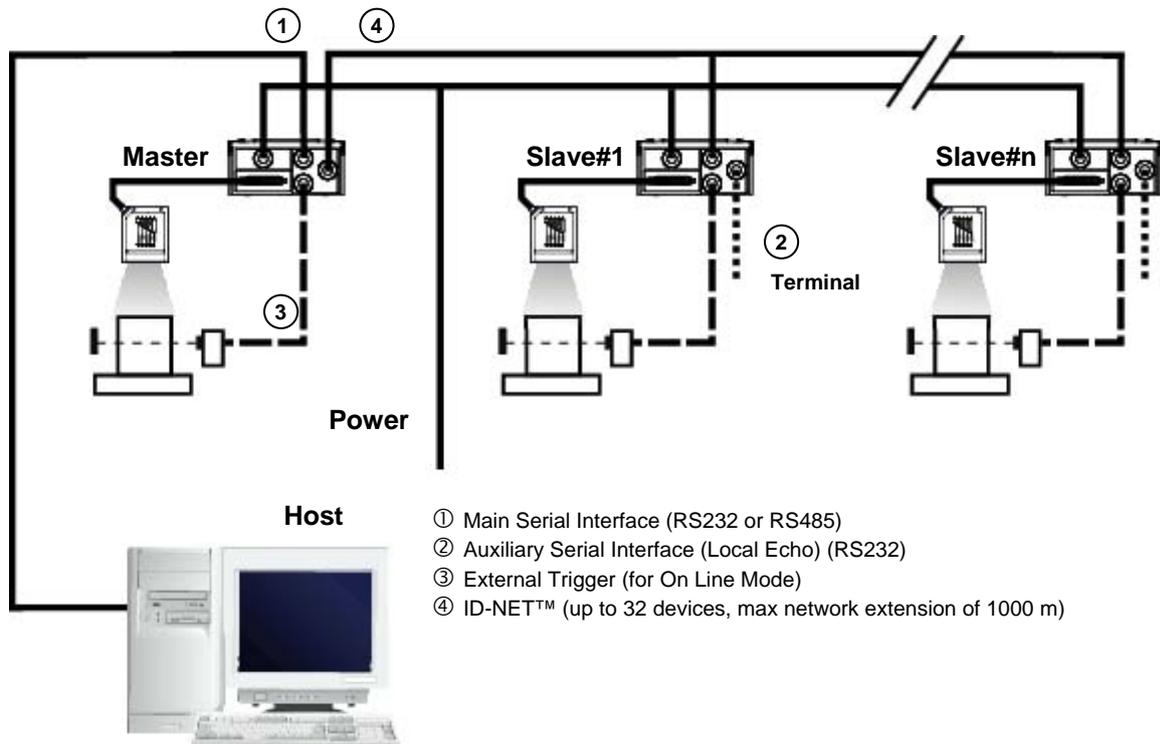


The ID-NET™ interface allows local connection of multiple scanners that are reading on different sides of the same target. All scanners share a single presence sensor and activate/deactivate simultaneously.

At the end of each reading phase a single data message is transmitted to the host.

Thanks to ID-NET™, data communication among scanners is highly efficient so that an immediate result will be available.

- **ID-NET™ M/S Multidata:** Multiple stations – single scanner



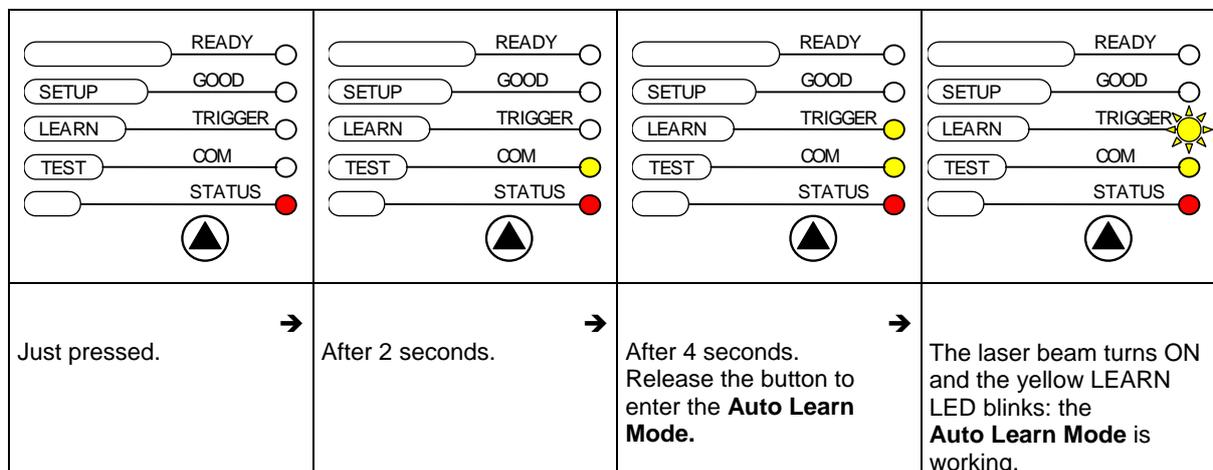
The ID-NET™ interface allows connection of scanners that are reading objects placed on independent conveyors. All scanners are typically located far away from each other and they use a dedicated presence sensor.

At the end of each reading phase, every scanner transmits its own data message to the host.

Thanks to ID-NET™, data collection among readers is accomplished at a high speed without the need of an external multiplexing device. This leads to an overall cost reduction and to simplified system wiring.

3 ID-NET™ NETWORK SETUP USING PROGRAMMING BARCODES

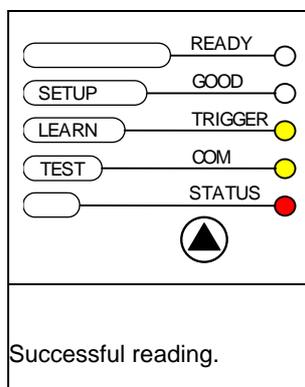
1. Press and hold the X-PRESS™ button to enter the “Auto Learn Mode”. Once button is pressed, the LED cycle appears as follows:



2. Now, put the barcode related to the planned role and address in front of the scanner. The picture below shows, as example, the scanner configuration as “Slave 1”¹:

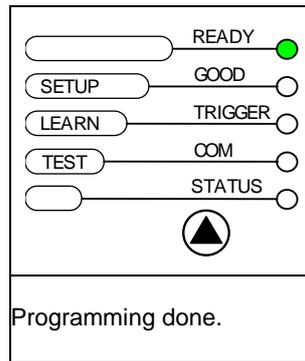


3. Once the scanner has successfully read, the LEDs stay on steady for 2 seconds:

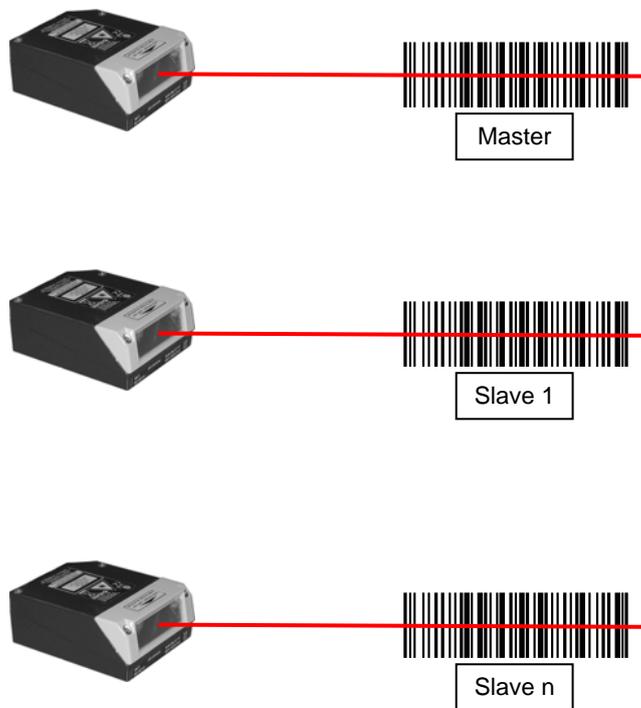


¹ the barcodes shown are examples, only. Use the barcodes in **chapter 3** for the actual programming.

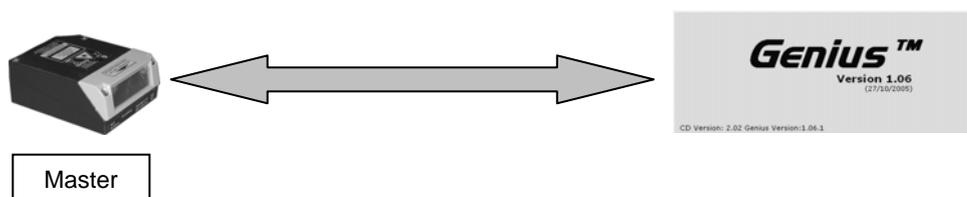
- The scanner is programmed and the *Auto Learn Mode* ends. The green “ready” LED is on.



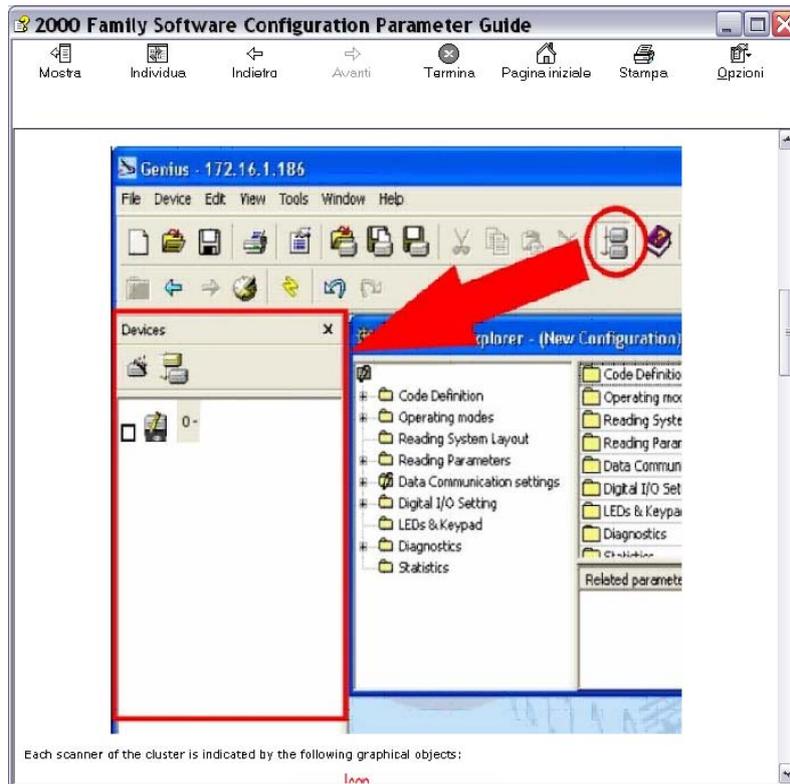
- Repeat steps 1..3 above to configure all the slaves and master. The maximum number of scanners is 32, including the master.



- Connect the master scanner to a PC by means of the Genius™ configuration software.



7. Start the Genius™ Express Network Setup procedure. Refer to the Help On Line document for details.



NOTE

Any network role can also be programmed using Genius™. Refer to the Help On Line documentation for further details.

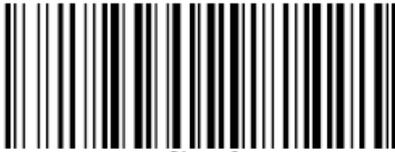
4 NETWORK LAYOUT BARCODES

- ID-NET™ M/S Synchronized

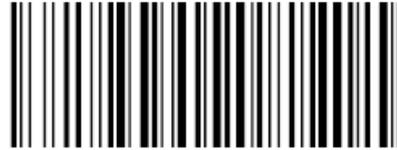




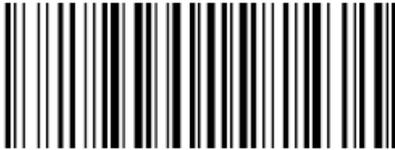
- ID-NET™ M/S Synchronized



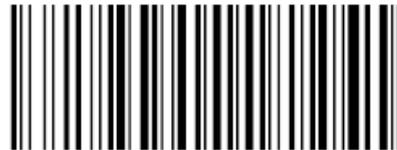
Slave 8



Slave 9



Slave 10



Slave 11



Slave 12



Slave 13



Slave 14



Slave 15



▪ ID-NET™ M/S Multidata



Master



Slave 1



Slave 2



Slave 3



Slave 4



Slave 5



Slave 6



Slave 7



- ID-NET™ M/S Multidata



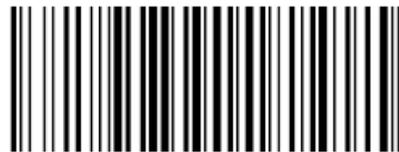
Slave 8



Slave 9



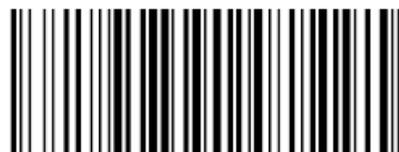
Slave 10



Slave 11



Slave 12



Slave 13



Slave 14



Slave 15



- ID-NET™ M/S Multidata



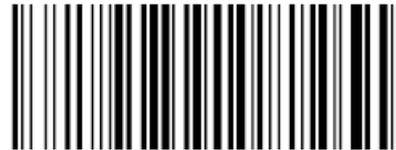
Slave 16



Slave 17



Slave 18



Slave 19



Slave 20



Slave 21



Slave 22



Slave 23



- ID-NET™ M/S Multidata



Slave 24



Slave 25



Slave 26



Slave 27



Slave 28



Slave 29



Slave 30

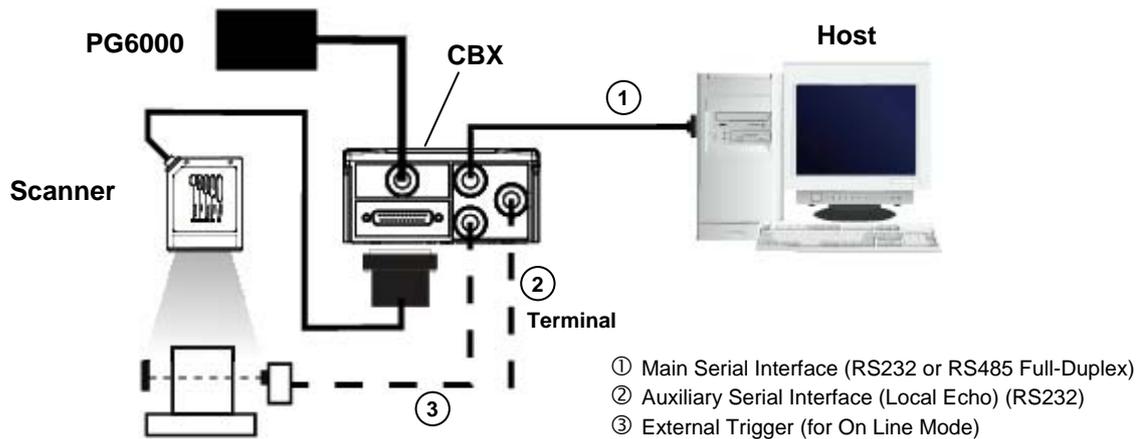


Slave 31

5 STAND-ALONE LAYOUT BARCODE

In order to re-program a network scanner for a stand alone configuration, the following barcode can be used.

- **Stand Alone Layout**



The programming barcode procedure uses the *Auto Learn* Mode as described in chapter 2.



NOTE

The Stand-Alone configuration can also be programmed using Genius™. Refer to the Help On Line documentation for further details.

6 PARAMETER SETTING SUMMARY

The network setup through programming barcodes **automatically sets** all the necessary parameters in order to produce a consistent and correct configuration.

The following table summarizes the modified values and the related programming actions.

Programmed Code	Modified Parameters
Stand Alone	Topology Role = Other
	Reading System Layout/Local Device Alternative Network Setting = Alone or Id-Net
Master Synchronized	Topology Role = Master Synchronized
	Operating Mode/ Operating Mode Selection = On Line (*)
Slave Synchronized	Topology Role = Slave Synchronized
	Slave Address = xx
	Operating Mode/ Operating Mode Selection = On Line (*)
Master Multidata	Topology Role = Master Multidata
Slave Multidata	Topology Role = Slave Multidata
	Slave Address = xx

(*)this setting only occurs if the starting Operating Mode is Continuous or Automatic

7 X-PRESS™ KEY LOCK – UNLOCK BARCODE

The X-PRESS™ key can be locked and unlocked through two different methods:

- by means of a Genius™ parameter
- with a programming barcode

The programming barcode procedure uses the *Auto Learn* Mode as described in chapter 2.

The code below is a “toggle-code”:

- if the key is locked, the programming code will unlock the key
- if the key is unlocked, the programming code will lock the key



Lock-Unlock X-Press™ key

8 RESTORE DEFAULT PARAMETERS BARCODE

The programming barcode procedure uses the *Auto Learn* Mode as described in chapter 2.

The code below allows setting the scanner to its factory default values, Configuration and Environmental Parameters:



Restore Default Values

FACTORY AUTOMATION – SENSING YOUR NEEDS



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