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**Technology Update**  
Linked Scanners Info

# Linked Scanners Info - Solution 1

Culemborg, June 2024

This document explains the different link possibilities with our Newland Handheld and/or Stationary scanners.

By linking, we mean interconnecting two or more scanners to a single host. From the host's perspective, it will appear as if only one scanner is connected. This simplifies the host software's task, as it does not need to manage inputs from multiple scanners. The linked scanners are designed to handle simultaneous and duplicate reads, ensuring that a scanned barcode is never sent to the host more than once by accident.

**Solution 1:** Link a handheld or stationary scanner to a primary stationary scanner. This solution is only available when the primary scanner has an optional port for connecting a secondary scanner. In our portfolio today, only the NLS-FM8080E-20 and NLS-FR8080-20 have an optional port. The scanner connected to the optional port must support the RS232 interface. The secondary scanner can be powered via the link cable.

## Hardware needed:

- | Primary device: NLS-FM8080E-20 or NLS-FR8080-20
- | Secondary device(s): Every Newland scanner that has an RS232 connection possibility
- | Link cable CBL127R

## Software setup:

- | The master FM8080 can be connected to the host in whatever interface
- | The secondary scanner must be set up in RS232 mode
- | No special firmware is needed on the primary or secondary device



# Linked Scanners Info - Solution 2

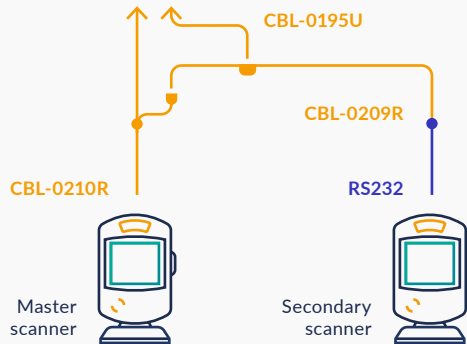
Culemborg, June 2024

**Solution 2:** Interconnect 2 x FR40 and connect to the host. A special cable is used between both FR40s. This cable interconnects the FR40 and also connects via USB to the host.

This solution is used in 'Sandwich and coffee' shops. Our scanner is customer-facing and scans loyalty cards and/or products. The operator uses the second FR40 to scan products.



Host PC USB port 1    Host PC USB port 2 (only for 5V power)



## Hardware needed:

- | 2 x NLS-FR4080
- | Special cable 1150030076 ( = CBL0210R + CBL-0209R + CBL-0195U ) . This cable consumes 2 x USB-A ports on the host

## Software setup:

- | Both FR4080's must have firmware FR40V3\_V1.01.002.H160.EN
- | The secondary scanner is configured in the RS232 interface

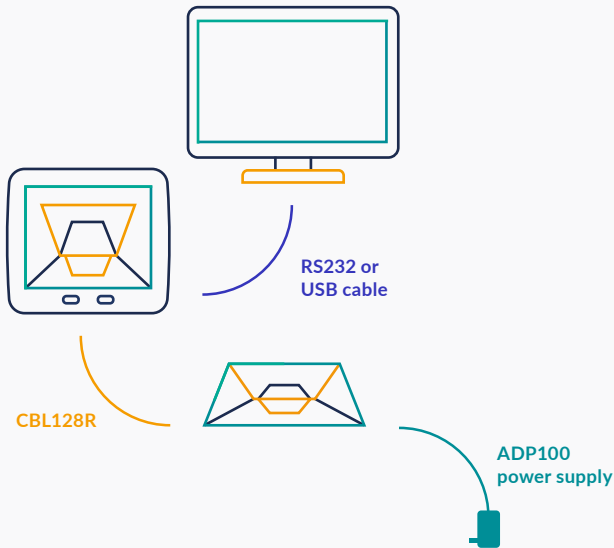
## Info:

- | The Master scanner is connected with a USB interface to the host
- | The secondary scanner is connected via a standard RS232 cable to the splitter cable 1150030076
- | The primary and secondary scanners are powered via a special cable

# Linked Scanners Info - Solution 3

Culemborg, June 2024

**Solution 3:** Connect an FM8080 to the secondary port of the NLS-FR8080-20. Both scanners may be mounted with an overlapping read view. The FR80 software handles double reads when both scanners should read a product simultaneously.



## Hardware needed:

- | 1 x NLS-FR8080-20 (primary)
- | 1 x NLS-FM8080E-20 or NLS-FM8080-20 (secondary)
- | 1 x CBL128R between FM80 and FR80
- | One host cable between FR8080 and the host. This can be USB or RS232
- | 1 x mandatory ADP100 power supply

## Software setup:

- | The FR80 is the primary communication device. When the FR80 scans a barcode, it stops decoding for x milliseconds and stops processing the same barcode coming from the FM80 via the second port.
- | The RRDDURx command on the FR80 stops decoding for x ms after a valid barcode is scanned in either the FR80 or FM80.
- | Beeper settings: You should turn off the FM80's good-read beep. The FR80 is handling the beeps.
- | Set the FM80 Interface to: AUX RS232 (INTERF14)



Please let us know if you have any questions or concerns regarding these changes.

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