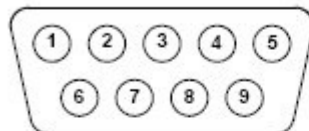


HERON D140 Pinout

ELECTRICAL CONNECTIONS

The Heron™ D140 scanner can be used with CAB 397 (coiled cable and 9-pin male connector) for direct connection to the DATAPLUS and DLD series decoders.

CAB 397

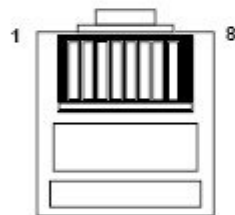


- | | |
|-------------------|-----------------|
| 1 - Not connected | 5 - TRIGGER |
| 2 - SCAN | 6 - BEEPER/LED |
| 3 - Not connected | 7 - VIDEO |
| 4 - GND | 8 - ILLUMINATOR |
| | 9 - +VCC |

9-pin male connector

The Heron™ D140 scanner can be used with CAB 396 (coiled cable and 8-pin modular connector) for direct connection to PSC Inc. flat bed scanners.

CAB 396



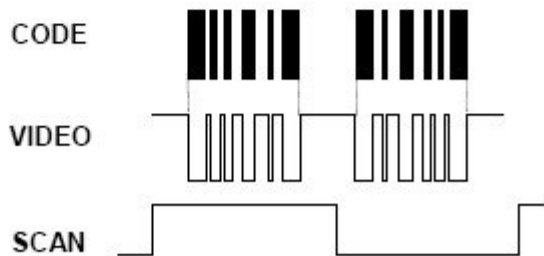
- | | |
|-------------------|-------------------|
| 1 - TRIGGER | 5 - BEEPER/LED |
| 2 - ILLUMINATOR | 6 - Not connected |
| 3 - Not connected | 7 - +VCC |
| 4 - VIDEO | 8 - GND |

8-pin modular connector

A definition of the terms used to identify the pins is as follows:

- | | |
|----------------|--|
| SCAN | This scanner "open collector" output signal is used to synchronize the decoding logic with the scanner. Each transition of this signal from low-to-high or high-to-low corresponds to the start of a scan. The signal is a square wave with 36 Hz default frequency (see the following figure Video and Scan signals). |
| GND | Supply ground and signal reference. |
| TRIGGER | This output is connected to GND when the trigger is pressed and is left floating when the trigger is released. |

- BEEPER/LED** This scanner input drives the decoding LED, the Good Read Spot and the beeper in the scanner. The LED and Good Read Spot turn on when a positive current is applied to the pin. The beeper sound is obtained pulsating this current at a frequency of about 2 kHz. The maximum voltage that can be applied to this input is 5 Vdc.
- VIDEO** This “open collector” scanner output is electrically identical to the barcode. It supplies a series of pulses the length of which are proportional to the width of the elements within the barcode read. Video polarity is programmable. By default a low output level corresponds to a bar. The frequency of the pulses depends on the density of the code, the distance from code and the programmed output scan frequency (see the following figure Video and Scan signals).
- ILLUMINATOR** A positive voltage (5 Vdc) is applied to this input by the decoder when the decoding logic senses the trigger is pressed; this causes the activation of the illuminator and CCD.
- +VCC** This input must be connected to the positive pin of the supply voltage (5 Vdc ± 5%). When the ILLUMINATOR pin is positive, all the current necessary to power the scanner flows through +VCC.



Video and scan signals