Windows Edition User Guide

JANUARY 2021

checkmate

Contents

Introduction

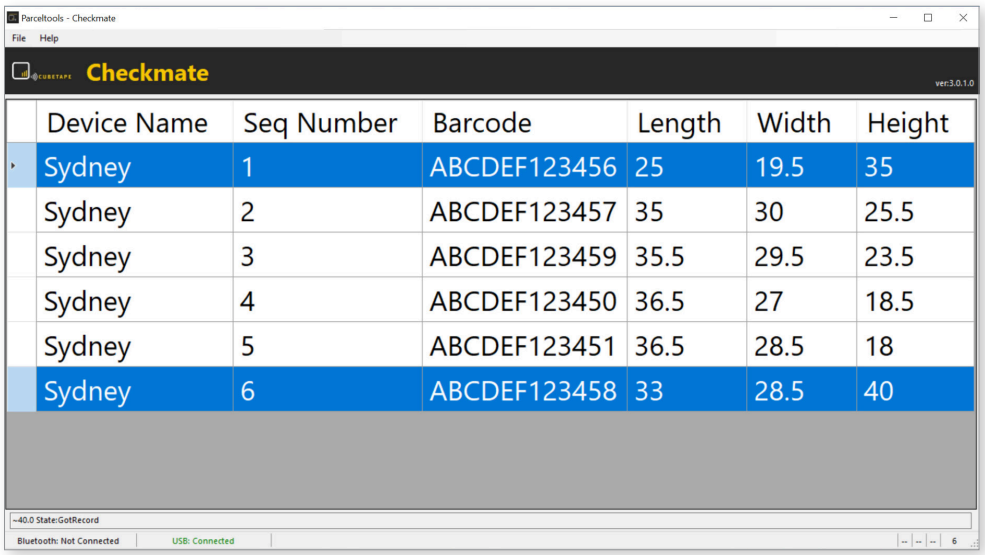
CheckMate Windows Edition (CheckMate-W) is a PC data capture application designed to receive, display and record data sent from Cubetape and up to 2 supported scales. CheckMate-W has the following features:

Data Capture and Update Methods

- Online data transfer direct from Cubetape PRO and POS devices on a record by record basis over Bluetooth Serial connection.
- Online data transfer from Cubetape PRO and POS devices on a record by record basis via the C190DSK cradle connected in USB-VCP mode.
- Batch file transfer direct from Cubetape PRO over Bluetooth Serial connection.
- Batch file transfer direct from Cubetape PRO over USB cable.
- Batch file transfer from Cubetape via the cradle connected in USB-VCP mode.
- Optional capture and integration of weight data from 1 or 2 connected scales.

Once received data is displayed on screen in a tabular format, and the users can select which columns to display, and the order of the columns from the Grid view in Settings.

Available data items are described in Schedule 1.
CheckMate-W requires data to be transmitted in a specific format as detailed in Schedule 2.
Supported scales are listed in Schedule 3.



Data Export Options

Once data has been received in CheckMate-W, it can be saved to an export folder. The export folder location can be specified in Settings. Export options include:

- Manual export to csv file.
- Automatic export to csv file.
- Automatic export to a new csv file per record.

Communications

- Direct Bluetooth connections are persistent, and automatically reconnected if the connection is broken for any reason.
- CheckMate-W will automatically recognise and setup a connection to a Device or Cradle if connected over USB.

User Interface

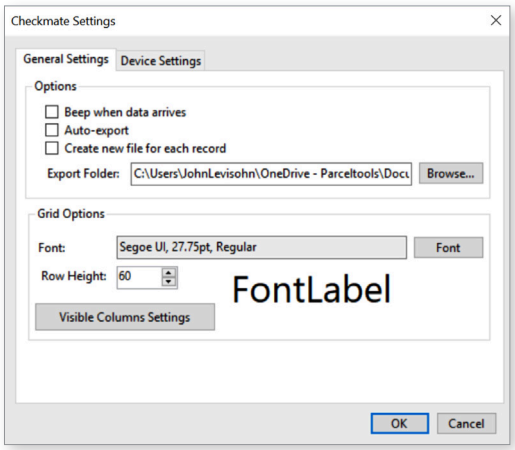
The settings menu allows control of the following:

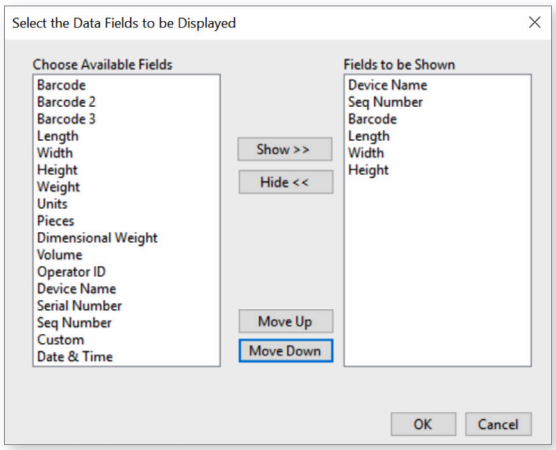
Selection of display items including: Serial Number, Barcode, Barcode2, Barcode3, Length, Width, Height, Units, Pieces, Weight, Volume, Operator ID, Date and Time, Device Name.

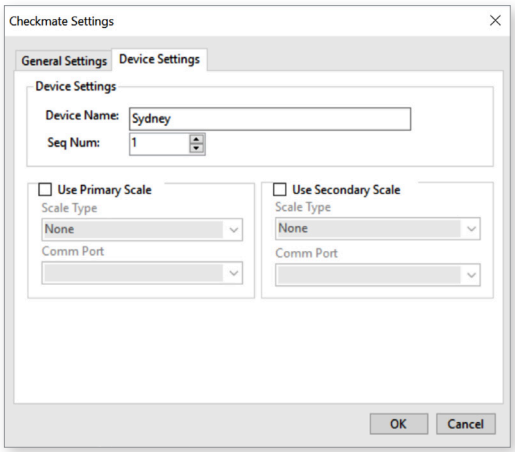
The display order of the data items can also be adjusted from the Grid View dialog.

Name and location of the data output file.

Type and connection parameters for the connected scales.







Schedule 1 - Installation Guide

This guide steps through the setup of CheckMate software, C190DSK Cradle and Cubetape POS or PRO for basic data capture and transfer to CheckMate on a Windows host.

CheckMate Windows Edition Installation

Download CheckMate Windows Edition and the User Guide from the software area of www.cubetape.com/downloads

Extract the contents to a folder on the local Windows system.

Install CheckMate by double clicking the file “Checkmate_3.0.2.0_Setup”

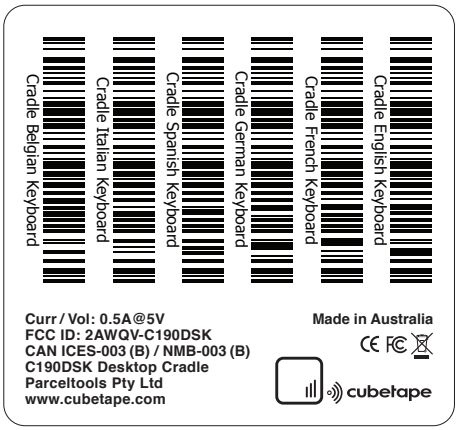
The application will install and open to the primary data capture screen.

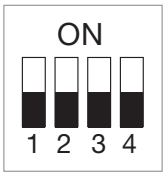
C190DSK Cradle Setup

Connection using C190DSK in Application Mode is recommended.
Dip Switches are located on the underside of the cradle and settings for Application Mode see below.

Identification Label and Settings:

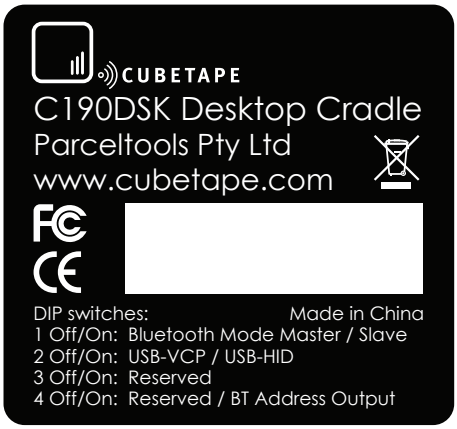
Cradle V2

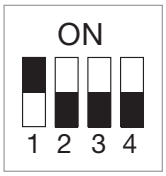




Application Mode (SPP)

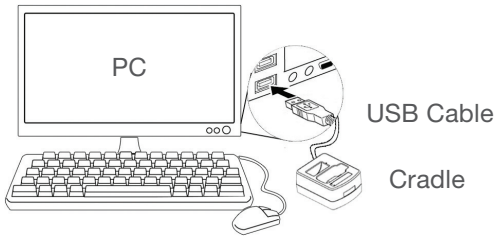
Cradle V1





Application Mode (SPP)

Set the dipswitches on the DSK according to the model.
Connect the C190DSK to the PC using the USB Cable and Application Mode (SPP)



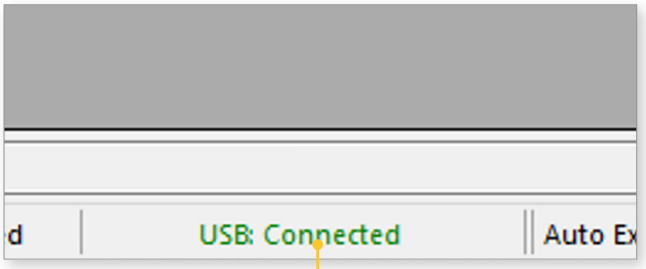
If the cradle is recognised by Windows, there will be a Windows system success beep, if not the cradle needs a USB-VCP driver to be loaded.

Installing the Driver

The driver is available in the utilities folder at **www.cubetape.com/downloads**

Download and unzip the folder and install either:
VCP_V1.5.0_Setup_W7_x64_64bits for 64 bit systems or
VCP_V1.5.0_Setup_W7_x86_32bits for 32 bit systems.

After installation of the driver, connection of the C190DSK cradle will result in a success beep **AND** CheckMate for Windows will automatically recognise the cradle (green USB Connected status on the status bar of the CheckMate screen):



USB Connection Status

C190POS Setup

To use with CheckMate and cradle, C190POS must be configured as follows:

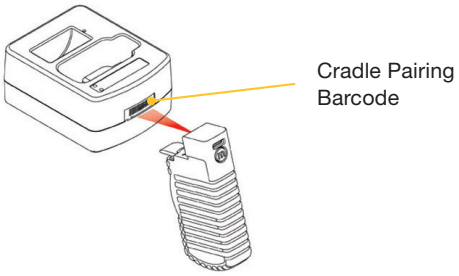
Bluetooth = Cradle Pairing Mode
Suffix = CRLF
Source Prefix ON

Scan the following configuration barcodes to complete POS setup:

Cradle Pairing Mode

Suffix = CRLF

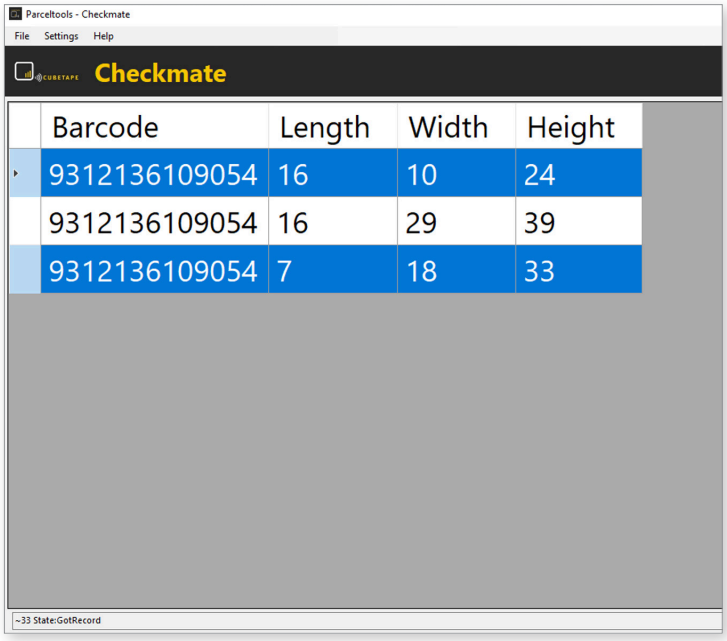
Prefix Dim & Gen ON



Connect C190POS to the Cradle by scanning the pairing barcode located at the front of the cradle.

Connection is established when the **blue LEDs** on C190POS and the Cradle are both **ON**.

Data can now be collected using POS and sent to CheckMate via the Cradle. Once CheckMate receives all 4 required items (Barcode, Length, Width, Height), the data will be displayed on the CheckMate screen and stored on the PC in accordance with the settings.



C190PRO Setup

The C190PRO can be configured to support many different formats, workflows and operational modes and is configured by connecting to a Windows configuration tool called Cubetape Manager available at www.cubetape.com/downloads

To configure PRO for use with CheckMate:

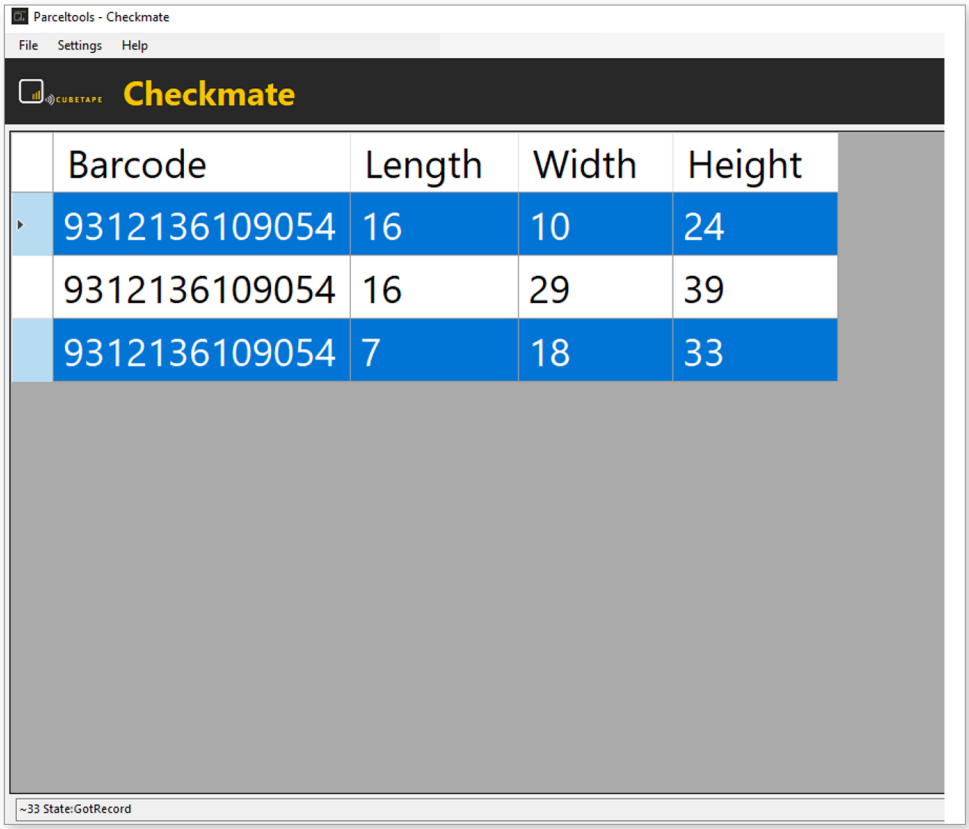
Step 1:
INSTALL the PRO configuration file “Checkmate Windows defaults .xml” using Manager.

Step 2:
PAIR the C190PRO with the Cradle by scanning the Cradle Pairing Barcode using the UP (^) key. C190PRO and cradle are paired and connected when blue LED on cradle and BT icon on C190PRO screen are permanently ON.

Step 3:
GO to Task menu (< and > together).

Highlight **MEASURE** and press **ENTER** (>).
The Measure workflow allows the user to capture a record comprising “Barcode, Length, Width, Height”. After height is captured the record is automatically sent to CheckMate and displayed.

For more information on C190PRO setup and customisation please contact your local Cubetape partner.



Schedule 2 - Data Item Descriptions

Data Item	Source	Description
Barcode	Cubetape	Unique shipment identifier (Con Note, AWB, Probill)
Barcode2	Cubetape	Additional descriptor (often product ID or location)
Barcode3	Cubetape	Additional descriptor
Pieces	Cubetape	Quantity
Length	Cubetape	Length or dimension 1
Width	Cubetape	Width or dimension 2
Height	Cubetape	Height or dimension 3
Weight	Scale Indicator	Weight from indicator
Date and Time	Cubetape/CheckMate	Date stamp either from PRO with RTC configured or from Windows System
Serial Number	Cubetape	Device serial number (PRO only)
Operator ID	Cubetape	Scanned at start of PRO session
Name	CheckMate	Descriptor from Settings area “Device Name”
Sequence Number	CheckMate	Incremental record counter
Dim Weight	Cubetape	Calculated item output from PRO
Volume	Cubetape	Calculated item output from PRO
Units	Cubetape	Fixed item output from PRO
Custom	Cubetape Spare	Custom field from PRO settings

Schedule 3 - Communications and Data Format Requirements

Communications

CheckMate for Windows receives data from connected devices using serial communications protocols. All connected devices must therefore be configured to use serial communications for data to be received.

If the C190DSK cradle is in use, it must be set to USB-VCP mode by setting dipswitch 2 to the OFF position.

Cubetape POS and PRO devices can either connect directly to the CheckMate application, or can connect via the C190DSK cradle.

Scales and scale indicators also connect using Serial, USB, or Bluetooth SPP connections.

Cubetape PRO

Data received from Cubetape PRO must be formatted using the default output format:

SN=18120001,ID1=12345678,PC=1,LL=48,WW=40,HH=100<CRLF>

The PRO mandates and controls this format to ensure data integrity.

Cubetape POS

CheckMate-W buffers data items received from POS, and on receipt of a valid record displays data items and saves the record to disc. This process allows data integrity to be managed.

Valid POS formats supported are:

1DIM (where individual items are decoded then transmitted):

^Barcode<CRLF>
~Length<CRLF>
~Width<CRLF>
~Height<CRLF>

3DIM (where dimensional items are grouped in sets of three then transmitted)

^Barcode<CRLF>
~LengthxWidthxHeight<CRLF>

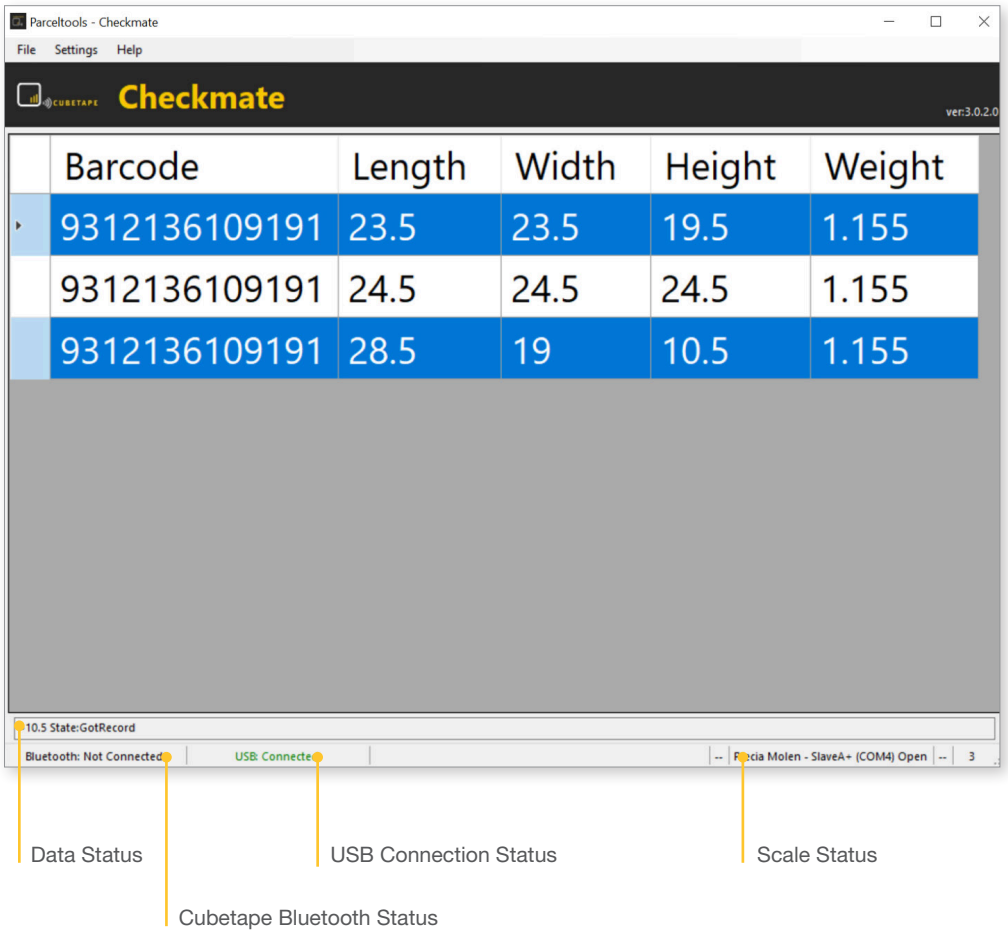
[Source prefixes ^ and ~ are required and identify the source of the data as either General (^) or Dimensional (~)]

[Suffix CRLF is required to identify the entries]

Schedule 4 - Supported Scales/Indicators

Manufacturer	Device/Protocol
Avery Weigh-tronix	ZP900, SMA
Mettler Toledo	SICS
Ohaus	T31P
Precia Molen	i5, SlaveA+ (ID=00)

Schedule 5 - Status information



www.cubetape.com

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