

# MT1

## Serial Commands Manual

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## **Introduction**

This document describes the serial commands for host parameter programming through USB VCP, HID POS and UART interface. All commands can be sent via PC COM port using serial communication software.

## **Product Requirements**

The following product, when programmed with the specified firmware, support serial commands operation via given interface:

Model	Firmware Version	Interface
MT1	V2.4.0.29.13 or up	UART
		USB VCP
		HID POS

## **Communication Interface**

### **UART**

#### **Protocol**

Baud rate = 9600

Data Bits = 8

Parity = None

Stop Bit = 1

Handshaking = None

ACK/NAK = OFF

#### **Data Format**

LEN is always 2 bytes, big-endian format, indicating the length of CMD/DATA, excluding BCC and ETX. BCC is the XOR value from FID to DATA.

Host's command:

STX	FID	LEN		CMD	BCC	ETX
0x5A	0x00	0x00	0xxx	xxxxxxxxxxxx	(1Byte)	0xA5

Scan engine's response:

STX	FID	LEN		DATA	BCC	ETX
0x5A	0x01	0xxx	0xxx	xxxxxxxxxxxx	(1Byte)	0xA5

Scan engine's automatic feedback:

STX	FID	LEN		DATA	BCC	ETX
0x5A	0x02	0xxx	0xxx	xxxxxxxxxxxx	(1Byte)	0xA5

## USB

### USB VCP

When configured to USB VCP interface, the scan engine can communicate with the host via USB Virtual COM, which requires VCP driver to be installed.

Host's command:

CMD
xxxxxxxxxxxx

Scan engine's response:

DATA
xxxxxxxxxxxx

### HID POS

When configured to USB HID POS interface, the scan engine can communicate with the host via USB HID, which requires no driver.

Vid: 0x26f1

pid: 0x8803

Host's command:

Byte	Content
0	Message ID (0x04)
1	Data length
2-61	Data (CMD)
62	0x00, 1 byte reserved
63	0x00 (no data behind) 0x01 (more data behind)

Scan engine's response:

Byte	Content
0	Message ID (0x02)
1	Data length
2-57	Data (DATA)
58-62	0x00, 5 bytes reserved
63	0x00 (no data behind) 0x01 (more data behind)

## Status Response

Scan engine may respond with the following status (in Hex)

Status	Definition
9000	Success
6A89	Failure, error or abnormal event

## **Command (CMD)**

### **General Configuration**

Function	VCP Command	UART Command (Hex)
Check version	T_OUT_CVER	5A 00 00 0a 54 5f 4f 55 54 5f 43 56 45 52 12 A5
Enable configuration barcode*	S_CMD_0001	5A 00 00 0a 53 5f 43 4d 44 5f 30 30 30 31 12 A5
Disable configuration barcode	S_CMD_0000	5A 00 00 0a 53 5f 43 4d 44 5f 30 30 30 30 13 A5
Output configuration barcode data	S_CMD_0011	5A 00 00 0a 53 5f 43 4d 44 5f 30 30 31 31 13 A5
Not output configuration barcode data*	S_CMD_0010	5A 00 00 0a 53 5f 43 4d 44 5f 30 30 31 30 12 A5
Reset to factory default	S_CMD_FFFF	5A 00 00 0a 53 5f 43 4d 44 5f 46 46 46 46 13 A5
Save current configuration as custom default	S_CMD_00F1	5A 00 00 0a 53 5f 43 4d 44 5f 30 30 46 31 64 A5
Reset to custom default	S_CMD_00F0	5A 00 00 0a 53 5f 43 4d 44 5f 30 30 46 30 65 A5

## **Communication Interface**

### **UART**

Function	VCP Command	UART Command (Hex)
Interface = UART	S_CMD_01H3	5A 00 00 0a 53 5f 43 4d 44 5f 30 31 48 33 69 A5
Baud rate = 1200	S_CMD_H3BR1200	5A 00 00 0e 53 5f 43 4d 44 5f 48 33 42 52 31 32 30 30 7f A5
Baud rate = 2400	S_CMD_H3BR2400	5A 00 00 0e 53 5f 43 4d 44 5f 48 33 42 52 32 34 30 30 7a A5
Baud rate = 4800	S_CMD_H3BR4800	5A 00 00 0e 53 5f 43 4d 44 5f 48 33 42 52 34 38 30 30 70 A5
Baud rate = 9600*	S_CMD_H3BR9600	5A 00 00 0e 53 5f 43 4d 44 5f



		48 33 42 52 39 36 30 30 73 A5
Baud rate = 14400	S_CMD_H3BR1440	5A 00 00 0f 53 5f 43 4d 44 5f 48 33 42 52 31 34 34 30 30 4c A5
Baud rate = 19200	S_CMD_H3BR1920	5A 00 00 0f 53 5f 43 4d 44 5f 48 33 42 52 31 39 32 30 30 47 A5
Baud rate = 38400	S_CMD_H3BR3840	5A 00 00 0f 53 5f 43 4d 44 5f 48 33 42 52 33 38 34 30 30 42 A5
Baud rate = 57600	S_CMD_H3BR5760	5A 00 00 0f 53 5f 43 4d 44 5f 48 33 42 52 35 37 36 30 30 49 A5
Baud rate = 115200	S_CMD_H3BR115200	5A 00 00 10 53 5f 43 4d 44 5f 48 33 42 52 31 31 35 32 30 30 65 A5
Parity = None*	S_CMD_H3P0	5A 00 00 0a 53 5f 43 4d 44 5f 48 33 50 30 08 A5
Parity = Odd	S_CMD_H3P1	5A 00 00 0a 53 5f 43 4d 44 5f 48 33 50 31 09 A5
Parity = Even	S_CMD_H3P2	5A 00 00 0a 53 5f 43 4d 44 5f 48 33 50 32 0a A5

## USB HID

Function	VCP Command	UART Command (Hex)
Interface = USB HID*	S_CMD_01H0	5A 00 00 0a 53 5f 43 4d 44 5f 30 31 48 30 6a A5

## USB VCP

Function	VCP Command	UART Command (Hex)
Interface = USB VCP	S_CMD_01H2	5A 00 00 0a 53 5f 43 4d 44 5f 30 31 48 32 68 A5

## HID POS

Function	VCP Command	UART Command (Hex)
Interface = HID POS	S_CMD_01H1	5A 00 00 0a 53 5f 43 4d 44 5f 30 31 48 31 6b A5

## **Reading Mode**

### **Batch Mode**

Function	VCP Command	UART Command (Hex)
Reading mode = Batch mode	S_CMD_MB00	5A 00 00 0a 53 5f 43 4d 44 5f 4d 42 30 30 1c A5

In batch mode, the scan engine starts scanning barcode when trigger pin = low. If trigger stays low, the scanning continues, with each barcode scanned once. To restart a new batch reading, the host must reset trigger level first and then pull trigger low again.

### **Trigger Mode**

Function	VCP Command	UART Command (Hex)
Reading mode = Trigger mode*	S_CMD_MT00	5A 00 00 0a 53 5f 43 4d 44 5f 4d 54 30 30 0a A5
LED timeout = 3000ms*	S_CMD_MTRS3000	5A 00 00 0e 53 5f 43 4d 44 5f 4d 54 52 53 33 30 30 30 0c A5
LED timeout = 5000ms	S_CMD_MTRS5000	5A 00 00 0e 53 5f 43 4d 44 5f 4d 54 52 53 35 30 30 30 0a A5
LED timeout = #ms (# = 1000~3600000)	S_CMD_MTRS# (# = 1000~3600000)	5A 00 00 0a 53 5f 43 4d 44 5f 4d 54 52 53 0b A5
Trigger condition = Level*	S_CMD_MT10	5A 00 00 0a 53 5f 43 4d 44 5f 4d 54 31 30 0b A5
Trigger condition = Pulse	S_CMD_MT11	5A 00 00 0a 53 5f 43 4d 44 5f 4d 54 31 31 0a A5
Disable identical read interval*	S_CMD_MT30	5A 00 00 0a 53 5f 43 4d 44 5f 4d 54 33 30 09 A5
Enable identical read interval	S_CMD_MT31	5A 00 00 0a 53 5f 43 4d 44 5f 4d 54 33 31 08 A5
Disable identical read interval reset*	S_CMD_MT40	5A 00 00 0a 53 5f 43 4d 44 5f 4d 54 34 30 0e A5

Enable identical read interval reset	S_CMD_MT41	5A 00 00 0a 53 5f 43 4d 44 5f 4d 54 34 31 0f A5
Identical read interval = 0ms	S_CMD_MTRI0000	5A 00 00 0e 53 5f 43 4d 44 5f 4d 54 52 49 30 30 30 15 A5
Identical read interval = 1000ms	S_CMD_MTRI1000	5A 00 00 0e 53 5f 43 4d 44 5f 4d 54 52 49 31 30 30 14 A5
Identical read interval = 1500ms*	S_CMD_MTRI1500	5A 00 00 0e 53 5f 43 4d 44 5f 4d 54 52 49 31 35 30 11 A5
Identical read interval = 3000ms	S_CMD_MTRI3000	5A 00 00 0e 53 5f 43 4d 44 5f 4d 54 52 49 33 30 30 16 A5
Identical read interval = 5000ms	S_CMD_MTRI5000	5A 00 00 0e 53 5f 43 4d 44 5f 4d 54 52 49 35 30 30 10 A5
Identical read interval = #ms (# = 0~65535)	S_CMD_MTRI# (# = 0~65535)	5A 00 00 0a 53 5f 43 4d 44 5f 4d 54 52 49 11 A5
Disable sleep mode (UART)*	S_CMD_MT20	5A 00 00 0a 53 5f 43 4d 44 5f 4d 54 32 30 08 A5
Enable sleep mode (UART)	S_CMD_MT21	5A 00 00 0a 53 5f 43 4d 44 5f 4d 54 32 31 09 A5
Sleep timeout = 500ms (UART)*	S_CMD_MTRF500	5A 00 00 0d 53 5f 43 4d 44 5f 4d 54 52 46 35 30 30 2c A5
Sleep timeout = 1000ms (UART)	S_CMD_MTRF1000	5A 00 00 0e 53 5f 43 4d 44 5f 4d 54 52 46 31 30 30 1b A5
Sleep timeout = #ms (# = 0~65535)	S_CMD_MTRI# (# = 0~65535)	5A 00 00 0a 53 5f 43 4d 44 5f 4d 54 52 46 1e A5

When trigger condition = level, the trigger pin must always stay low during a scanning operation. When trigger condition = pulse, the scan engine starts scanning whenever a low level pulse at trigger pin is detected, and will continue scanning until a barcode is scanned or a pre-set timeout is reached.

When identical read interval = 0ms, a barcode can be scanned only once.  
 When identical read interval > 0ms, a barcode (or an identical one) can be re-scanned after the defined amount of interval expires.

When identical read interval is enabled and identical read interval reset is disabled, a barcode (or an identical one) can be re-scanned only after the defined amount of interval expires.

When identical read interval is enabled and identical read interval reset is enabled, a barcode (or an identical one) can be re-scanned only if it has not been scanned before the defined amount of interval expires.

### Auto-sensing Mode

Function	VCP Command	UART Command (Hex)
Reading mode = Auto-sensing mode	S_CMD_020F	5A 00 00 0a 53 5f 43 4d 44 5f 30 32 30 46 67 A5
LED timeout = 3000ms*	S_CMD_MSRS3000	5A 00 00 0e 53 5f 43 4d 44 5f 4d 53 52 53 33 30 30 30 0b A5
LED timeout = 5000ms	S_CMD_MSRS5000	5A 00 00 0e 53 5f 43 4d 44 5f 4d 53 52 53 35 30 30 30 0d A5
LED timeout = #ms (# = 1000~3600000)	S_CMD_MSRS# (# = 1000~3600000)	5A 00 00 0a 53 5f 43 4d 44 5f 4d 53 52 53 0c A5
Image stabilization timeout = 60ms*	S_CMD_MS RP60	5A 00 00 0c 53 5f 43 4d 44 5f 4d 53 52 50 36 30 0f A5
Image stabilization timeout = 500ms	S_CMD_MS RP500	5A 00 00 0d 53 5f 43 4d 44 5f 4d 53 52 50 35 30 30 3d A5
Image stabilization timeout = 1000ms	S_CMD_MS RP1000	5A 00 00 0e 53 5f 43 4d 44 5f 4d 53 52 50 31 30 30 30 0a A5
Image stabilization timeout = #ms (# = 0~1600)	S_CMD_MS RP# (# = 0~1600)	5A 00 00 0a 53 5f 43 4d 44 5f 4d 53 52 50 0f A5

Disable identical read interval*	S_CMD_MS30	5A 00 00 0a 53 5f 43 4d 44 5f 4d 53 33 30 0e A5
Enable identical read interval	S_CMD_MS31	5A 00 00 0a 53 5f 43 4d 44 5f 4d 53 33 31 0f A5
Disable identical read interval reset*	S_CMD_MS40	5A 00 00 0a 53 5f 43 4d 44 5f 4d 53 34 30 09 A5
Enable identical read interval reset	S_CMD_MS41	5A 00 00 0a 53 5f 43 4d 44 5f 4d 53 34 31 08 A5
Identical read interval = 0ms	S_CMD_MSRI0000	5A 00 00 0e 53 5f 43 4d 44 5f 4d 53 52 49 30 30 30 30 12 A5
Identical read interval = 1000ms	S_CMD_MSRI1000	5A 00 00 0e 53 5f 43 4d 44 5f 4d 53 52 49 31 30 30 30 13 A5
Identical read interval = 1500ms*	S_CMD_MSRI1500	5A 00 00 0e 53 5f 43 4d 44 5f 4d 53 52 49 31 35 30 30 16 A5
Identical read interval = 3000ms	S_CMD_MSRI3000	5A 00 00 0e 53 5f 43 4d 44 5f 4d 53 52 49 33 30 30 30 11 A5
Identical read interval = 5000ms	S_CMD_MSRI5000	5A 00 00 0e 53 5f 43 4d 44 5f 4d 53 52 49 35 30 30 30 17 A5
Identical read interval = #ms (# = 0~65535)	S_CMD_MSRI# (# = 0~65535)	5A 00 00 0a 53 5f 43 4d 44 5f 4d 53 52 49 16 A5
Auto-sensing sensitivity = Medium	S_CMD_MS51	5A 00 00 0a 53 5f 43 4d 44 5f 4d 53 35 31 09 A5
Auto-sensing sensitivity = Low	S_CMD_MS52	5A 00 00 0a 53 5f 43 4d 44 5f 4d 53 35 32 0a A5
Auto-sensing sensitivity = High*	S_CMD_MS53	5A 00 00 0a 53 5f 43 4d 44 5f 4d 53 35 33 0b A5
Auto-sensing sensitivity = Ultra high	S_CMD_MS54	5A 00 00 0a 53 5f 43 4d 44 5f 4d 53 35 34 0c A5
Auto-sensing threshold = # (# = 0~50)	S_CMD_MS50# (# = 0~50)	5A 00 00 0a 53 5f 43 4d 44 5f 4d 53 35 30 08 A5
Stop mode 1*	S_CMD_MSSA	5A 00 00 0a 53 5f 43 4d 44

		5f 4d 53 53 41 1f A5
Stop mode 2	S_CMD_MSST	5A 00 00 0a 53 5f 43 4d 44 5f 4d 53 53 54 0a A5

When identical read interval = 0ms, a barcode can be scanned only once.  
 When identical read interval > 0ms, a barcode (or an identical one) can be re-scanned after the defined amount of interval expires.

When identical read interval is enabled and identical read interval reset is disabled, a barcode (or an identical one) can be re-scanned only after the defined amount of interval expires.

When identical read interval is enabled and identical read interval reset is enabled, a barcode (or an identical one) can be re-scanned only if it has not been scanned before the defined amount of interval expires.

## Continuous Mode

Function	VCP Command	UART Command (Hex)
Reading mode = Continuous mode	S_CMD_020E	5A 00 00 0a 53 5f 43 4d 44 5f 30 32 30 45 64 A5
LED timeout = 3000ms*	S_CMD_MARS3000	5A 00 00 0e 53 5f 43 4d 44 5f 4d 41 52 53 33 30 30 30 19 A5
LED timeout = 5000ms	S_CMD_MARS5000	5A 00 00 0e 53 5f 43 4d 44 5f 4d 41 52 53 35 30 30 30 1f A5
LED timeout = #ms (# = 1000~3600000)	S_CMD_MARS# (# = 1000~3600000)	5A 00 00 0a 53 5f 43 4d 44 5f 4d 41 52 53 1e A5
Scan interval = 0ms	S_CMD_MARR000	5A 00 00 0d 53 5f 43 4d 44 5f 4d 41 52 52 30 30 30 28 A5
Scan interval = 500ms*	S_CMD_MARR500	5A 00 00 0d 53 5f 43 4d 44 5f 4d 41 52 52 35 30 30 2d A5
Scan interval = 1000ms	S_CMD_MARR1000	5A 00 00 0e 53 5f 43 4d 44

		5f 4d 41 52 52 31 30 30 30 1a A5
Scan interval = 2000ms	S_CMD_MARR2000	5A 00 00 0e 53 5f 43 4d 44 5f 4d 41 52 52 32 30 30 30 19 A5
Scan interval = 5000ms	S_CMD_MARR5000	5A 00 00 0e 53 5f 43 4d 44 5f 4d 41 52 52 35 30 30 30 1e A5
Scan interval = #ms (# = 0~65535)	S_CMD_MARR# (# = 0~65535)	5A 00 00 0a 53 5f 43 4d 44 5f 4d 41 52 52 1f A5
Disable identical read interval*	S_CMD_MA30	5A 00 00 0a 53 5f 43 4d 44 5f 4d 41 33 30 1c A5
Enable identical read interval	S_CMD_MA31	5A 00 00 0a 53 5f 43 4d 44 5f 4d 41 33 31 1d A5
Disable identical read interval reset*	S_CMD_MA40	5A 00 00 0a 53 5f 43 4d 44 5f 4d 41 34 30 1b A5
Enable identical read interval reset	S_CMD_MA41	5A 00 00 0a 53 5f 43 4d 44 5f 4d 41 34 31 1a A5
Identical read interval = 0ms	S_CMD_MARI0000	5A 00 00 0e 53 5f 43 4d 44 5f 4d 41 52 49 30 30 30 30 00 A5
Identical read interval = 1000ms	S_CMD_MARI1000	5A 00 00 0e 53 5f 43 4d 44 5f 4d 41 52 49 31 30 30 30 01 A5
Identical read interval = 1500ms*	S_CMD_MARI1500	5A 00 00 0e 53 5f 43 4d 44 5f 4d 41 52 49 31 30 30 30 01 A5
Identical read interval = 3000ms	S_CMD_MARI3000	5A 00 00 0e 53 5f 43 4d 44 5f 4d 41 52 49 31 35 30 30 04 A5
Identical read interval = 5000ms	S_CMD_MARI5000	5A 00 00 0e 53 5f 43 4d 44 5f 4d 41 52 49 33 30 30 30 03 A5
Identical read interval = #ms (# = 0~65535)	S_CMD_MARI# (# = 0~65535)	5A 00 00 0e 53 5f 43 4d 44 5f 4d 41 52 49 35 30 30 30 05 A5



When identical read interval = 0ms, a barcode can be scanned only once.  
 When identical read interval > 0ms, a barcode (or an identical one) can be re-scanned after the defined amount of interval expires.

When identical read interval is enabled and identical read interval reset is disabled, a barcode (or an identical one) can be re-scanned only after the defined amount of interval expires.

When identical read interval is enabled and identical read interval reset is enabled, a barcode (or an identical one) can be re-scanned only if it has not been scanned before the defined amount of interval expires.

### Serial Trigger Mode

Function	VCP Command	UART Command (Hex)
Reading mode = Serial Trigger mode	S_CMD_020D	5A 00 00 0a 53 5f 43 4d 44 5f 30 32 30 44 65 A5
Start scanning	SR030301	5A 00 00 08 53 52 30 33 30 33 30 31 08 A5
Stop scanning	SR030300	5A 00 00 08 53 52 30 33 30 33 30 30 09 A5
Sleep (UART)	-	5A 00 00 08 53 52 44 46 30 30 35 30 0e A5
Wake (UART)	-	5A 00 00 08 53 52 44 46 30 30 35 31 0f A5
Serial Trigger Timeout = 0 sec	S_CMD_MCRS000	5A 00 00 0e 53 5f 43 4d 44 5f 4d 43 52 53 30 30 30 18 A5
Serial Trigger Timeout = 3 sec	S_CMD_MCRS3000	5A 00 00 0e 53 5f 43 4d 44 5f 4d 43 52 53 33 30 30 1b A5
Serial Trigger Timeout = 5 sec	S_CMD_MCRS5000	5A 00 00 0e 53 5f 43 4d 44 5f 4d 43 52 53 35 30 30 1d A5
Serial Trigger Timeout =	S_CMD_MCRS10000	5A 00 00 0f 53 5f 43 4d 44

10 sec		5f 4d 43 52 53 31 30 30 30 30 28 A5
Image stabilization timeout = # sec	S_CMD_MCRS##000	5A 00 00 0a 53 5f 43 4d 44 5f 4d 43 52 53 1c A5

## **Illumination and Aimer**

### **Illumination**

Function	VCP Command	UART Command (Hex)
Normal*	S_CMD_03L2	5A 00 00 0a 53 5f 43 4d 44 5f 30 33 4c 32 6e A5
Always off	S_CMD_03L0	5A 00 00 0a 53 5f 43 4d 44 5f 30 33 4c 30 6c A5
Always on	S_CMD_03L1	5A 00 00 0a 53 5f 43 4d 44 5f 30 33 4c 31 6d A5

### **Aimer**

Function	VCP Command	UART Command (Hex)
Normal*	S_CMD_03A2	5A 00 00 0a 53 5f 43 4d 44 5f 30 33 41 32 63 A5
Always off	S_CMD_03A0	5A 00 00 0a 53 5f 43 4d 44 5f 30 33 41 30 61 A5
Always on	S_CMD_03A1	5A 00 00 0a 53 5f 43 4d 44 5f 30 33 41 31 60 A5

### **Indicator**

Function	VCP Command	UART Command (Hex)
Mute	S_CMD_04F0	5A 00 00 0a 53 5f 43 4d 44 5f 30 34 46 30 61 A5
Unmute*	S_CMD_04F1	5A 00 00 0a 53 5f 43 4d 44 5f 30 34 46 31 60 A5

Power up beep on*	S_CMD_0401	5A 00 00 0a 53 5f 43 4d 44 5f 30 34 30 31 16 A5
Power up beep off	S_CMD_0400	5A 00 00 0a 53 5f 43 4d 44 5f 30 34 30 30 17 A5
Good read beep on*	S_CMD_0403	5A 00 00 0a 53 5f 43 4d 44 5f 30 34 30 33 14 A5
Good read beep off	S_CMD_0402	5A 00 00 0a 53 5f 43 4d 44 5f 30 34 30 32 15 A5
Indicator beep type 1	S_CMD_04T1	5A 00 00 0a 53 5f 43 4d 44 5f 30 34 54 31 72 A5
Indicator beep type 2	S_CMD_04T2	5A 00 00 0a 53 5f 43 4d 44 5f 30 34 54 32 71 A5
Indicator beep type 3*	S_CMD_04T3	5A 00 00 0a 53 5f 43 4d 44 5f 30 34 54 33 70 A5
Beep volume high*	S_CMD_04V0	5A 00 00 0a 53 5f 43 4d 44 5f 30 34 56 30 71 A5
Beep volume medium	S_CMD_04V1	5A 00 00 0a 53 5f 43 4d 44 5f 30 34 56 31 70 A5
Beep volume low	S_CMD_04V2	5A 00 00 0a 53 5f 43 4d 44 5f 30 34 56 32 73 A5
Configuration barcode beep on*	S_CMD_0405	5A 00 00 0a 53 5f 43 4d 44 5f 30 34 30 35 12 A5
Configuration barcode beep off	S_CMD_0404	5A 00 00 0a 53 5f 43 4d 44 5f 30 34 30 34 13 A5
Good read LED on*	S_CMD_0407	5A 00 00 0a 53 5f 43 4d 44 5f 30 34 30 37 10 A5
Good read LED off	S_CMD_0406	5A 00 00 0a 53 5f 43 4d 44 5f 30 34 30 36 11 A5
Good read LED duration = 100ms	S_CMD_04LR100	5A 00 00 0d 53 5f 43 4d 44 5f 30 34 4c 52 31 30 30 3f A5
Good read LED duration = 200ms*	S_CMD_04LR200	5A 00 00 0d 53 5f 43 4d 44 5f 30 34 4c 52 32 30 30 3c A5
Good read LED duration = 500ms	S_CMD_04LR500	5A 00 00 0d 53 5f 43 4d 44 5f 30 34 4c 52 35 30 30 3b

		A5
Good read LED duration = #ms (# = 0~3600000)	S_CMD_04LR# (# = 0~3600000)	5A 00 00 0a 53 5f 43 4d 44 5f 30 34 4c 52 09 A5
Good read LED mode 0*	S_CMD_04L0	5A 00 00 0a 53 5f 43 4d 44 5f 30 34 4c 30 6b A5
Good read LED mode 1	S_CMD_04L1	5A 00 00 0a 53 5f 43 4d 44 5f 30 34 4c 31 6a A5
Good read LED mode 2	S_CMD_04L2	5A 00 00 0a 53 5f 43 4d 44 5f 30 34 4c 32 69 A5
NGR (Not Good Read) message on	S_CMD_0409	5A 00 00 0a 53 5f 43 4d 44 5f 30 34 30 39 1e A5
NGR message off*	S_CMD_0408	5A 00 00 0a 53 5f 43 4d 44 5f 30 34 30 38 1f A5
Set NGR message (length = 0~7 data; data = 00~FF)	S_CMD_04NR (length = 0~7 data; data = 00~FF)	5A 00 00 0a 53 5f 43 4d 44 5f 30 34 4e 52 0b A5

To set NGR message, follow below steps:

1. Send S\_CMD\_04NR
2. Send commands corresponding to the hex equivalents of desired data as NGR message; for example, if 'ABC' is desired data, send:  
S\_CMD\_D004  
S\_CMD\_D001  
S\_CMD\_D004  
S\_CMD\_D002  
S\_CMD\_D004  
S\_CMD\_D003  
(see **Appendix 1 – Data 0~F**)
3. Send S\_CMD\_DFFF to save configuration  
(see **Appendix 1 – Data 0~F**)

## Data Format

Function	VCP Command	UART Command (Hex)
Enable full data format*	S_CMD_05F1	5A 00 00 0a 53 5f 43 4d 44 5f 30 35 46 31 61 A5
Disable full data format	S_CMD_05F0	5A 00 00 0a 53 5f 43 4d 44 5f 30 35 46 30 60 A5
Disable data length*	S_CMD_05L0	5A 00 00 0a 53 5f 43 4d 44 5f 30 35 4c 30 6a A5
Enable data length	S_CMD_05L1	5A 00 00 0a 53 5f 43 4d 44 5f 30 35 4c 31 6b A5
Disable STX*	S_CMD_05S0	5A 00 00 0a 53 5f 43 4d 44 5f 30 35 53 30 75 A5
Enable STX	S_CMD_05S1	5A 00 00 0a 53 5f 43 4d 44 5f 30 35 53 31 74 A5
CodeID+Preamble	S_CMD_05C1	5A 00 00 0a 53 5f 43 4d 44 5f 30 35 43 31 64 A5
Preamble+CodeID*	S_CMD_05C0	5A 00 00 0a 53 5f 43 4d 44 5f 30 35 43 30 65 A5
Enable Preamble	S_CMD_0501	5A 00 00 0a 53 5f 43 4d 44 5f 30 35 30 31 17 A5
Disable Preamble*	S_CMD_0500	5A 00 00 0a 53 5f 43 4d 44 5f 30 35 30 30 16 A5
Set Preamble (length = 0~16 data; data = 00~FF)	S_CMD_051R (length = 0~16 data; data = 00~FF)	5A 00 00 0a 53 5f 43 4d 44 5f 30 35 31 52 75 A5
Set Preamble of a Symbology	S_CMD_051P	5A 00 00 0a 53 5f 43 4d 44 5f 30 35 31 50 77 A5
Clear Preamble	S_CMD_CLPR	5A 00 00 0a 53 5f 43 4d 44 5f 43 4c 50 52 1e A5
Enable Code ID	S_CMD_0505	5A 00 00 0a 53 5f 43 4d 44 5f 30 35 30 35 13 A5
Disable Code ID*	S_CMD_0504	5A 00 00 0a 53 5f 43 4d 44 5f 30 35 30 34 12 A5
Reset all Code ID to default	S_CMD_IDFF	5A 00 00 0a 53 5f 43 4d 44 5f 49 44 46 46 1e A5

Set Code128 Code ID (length = 0~1 data; data = 00~FF)	S_CMD_ID00 (length = 0~1 data; data = 00~FF)	5A 00 00 0a 53 5f 43 4d 44 5f 49 44 30 30 1e A5
Set EAN-8 Code ID	S_CMD_ID01	5A 00 00 0a 53 5f 43 4d 44 5f 49 44 30 31 1f A5
Set EAN-13 Code ID	S_CMD_ID02	5A 00 00 0a 53 5f 43 4d 44 5f 49 44 30 32 1c A5
Set UPC-E0 Code ID	S_CMD_ID03	5A 00 00 0a 53 5f 43 4d 44 5f 49 44 30 33 1d A5
Set UPC-E1 Code ID	S_CMD_ID04	5A 00 00 0a 53 5f 43 4d 44 5f 49 44 30 34 1a A5
Set UPC-A Code ID	S_CMD_ID05	5A 00 00 0a 53 5f 43 4d 44 5f 49 44 30 35 1b A5
Set Interleaved 2/5 Code ID	S_CMD_ID06	5A 00 00 0a 53 5f 43 4d 44 5f 49 44 30 36 18 A5
Set Matrix 2/5 Code ID	S_CMD_ID07	5A 00 00 0a 53 5f 43 4d 44 5f 49 44 30 37 19 A5
Set Industrial 2/5 Code ID	S_CMD_ID08	5A 00 00 0a 53 5f 43 4d 44 5f 49 44 30 38 16 A5
Set IATA 2/5 Code ID	S_CMD_ID09	5A 00 00 0a 53 5f 43 4d 44 5f 49 44 30 39 17 A5
Set Code39 Code ID	S_CMD_ID0A	5A 00 00 0a 53 5f 43 4d 44 5f 49 44 30 41 6f A5
Set Code93 Code ID	S_CMD_ID0B	5A 00 00 0a 53 5f 43 4d 44 5f 49 44 30 42 6c A5
Set Codabar Code ID	S_CMD_ID0C	5A 00 00 0a 53 5f 43 4d 44 5f 49 44 30 43 6d A5
Set PDF417 Code ID	S_CMD_ID0D	5A 00 00 0a 53 5f 43 4d 44 5f 49 44 30 44 6a A5
Set QR Code Code ID	S_CMD_ID0E	5A 00 00 0a 53 5f 43 4d 44 5f 49 44 30 45 6b A5
Set Data Matrix Code ID	S_CMD_ID0F	5A 00 00 0a 53 5f 43 4d 44 5f 49 44 30 46 68 A5
Set Code11 Code ID	S_CMD_ID10	5A 00 00 0a 53 5f 43 4d 44 5f 49 44 31 30 1f A5
Set MSI Plessey Code ID	S_CMD_ID11	5A 00 00 0a 53 5f 43 4d 44

		5f 49 44 31 31 1e A5
Set Micro QR Code ID	S_CMD_ID12	5A 00 00 0a 53 5f 43 4d 44 5f 49 44 31 32 1d A5
Set Code32 Code ID	S_CMD_ID13	5A 00 00 0a 53 5f 43 4d 44 5f 49 44 31 33 1c A5
Set ISBN Code ID	S_CMD_ID14	5A 00 00 0a 53 5f 43 4d 44 5f 49 44 31 34 1b A5
Set ISSN Code ID	S_CMD_ID15	5A 00 00 0a 53 5f 43 4d 44 5f 49 44 31 35 1a A5
Set GS1-128 Code ID	S_CMD_ID16	5A 00 00 0a 53 5f 43 4d 44 5f 49 44 31 36 19 A5
Set AIM 128 Code ID	S_CMD_ID17	5A 00 00 0a 53 5f 43 4d 44 5f 49 44 31 37 18 A5
Set ISBT 128 Code ID	S_CMD_ID18	5A 00 00 0a 53 5f 43 4d 44 5f 49 44 31 38 17 A5
Set MicroPDF417 Code ID	S_CMD_ID19	5A 00 00 0a 53 5f 43 4d 44 5f 49 44 31 39 16 A5
Set Aztec Code ID	S_CMD_ID20	5A 00 00 0a 53 5f 43 4d 44 5f 49 44 32 30 1c A5
Set GS1 DataBar Code ID	S_CMD_ID21	5A 00 00 0a 53 5f 43 4d 44 5f 49 44 32 31 1d A5
Set GS1 DataBar Limited Code ID	S_CMD_ID22	5A 00 00 0a 53 5f 43 4d 44 5f 49 44 32 32 1e A5
Set GS1 DataBar Expanded Code ID	S_CMD_ID23	5A 00 00 0a 53 5f 43 4d 44 5f 49 44 32 33 1f A5
Set Plessey Code ID	S_CMD_ID24	5A 00 00 0a 53 5f 43 4d 44 5f 49 44 32 34 18 A5
Set MaxiCode Code ID	S_CMD_ID25	5A 00 00 0a 53 5f 43 4d 44 5f 49 44 32 35 19 A5
Set HanXin Code ID	S_CMD_ID26	5A 00 00 0a 53 5f 43 4d 44 5f 49 44 32 36 1a A5
Set DotCode Code ID	S_CMD_ID27	5A 00 00 0a 53 5f 43 4d 44 5f 49 44 32 37 1b A5
Set Composite Code ID	S_CMD_ID28	5A 00 00 0a 53 5f 43 4d 44 5f 49 44 32 38 14 A5
Enable Postamble	S_CMD_0507	5A 00 00 0a 53 5f 43 4d 44

		5f 30 35 30 37 11 A5
Disable Postamble*	S_CMD_0506	5A 00 00 0a 53 5f 43 4d 44 5f 30 35 30 36 10 A5
Set Postamble (length = 0~16 data; data = 00~FF)	S_CMD_057R (length = 0~16 data; data = 00~FF)	5A 00 00 0a 53 5f 43 4d 44 5f 30 35 37 52 73 A5
Set Postamble of a Symbology	S_CMD_057S	5A 00 00 0a 53 5f 43 4d 44 5f 30 35 37 53 72 A5
Clear Postamble	S_CMD_CLSF	5A 00 00 0a 53 5f 43 4d 44 5f 43 4c 53 46 09 A5
Enable Terminator*	S_CMD_0509	5A 00 00 0a 53 5f 43 4d 44 5f 30 35 30 39 1f A5
Disable Terminator	S_CMD_0508	5A 00 00 0a 53 5f 43 4d 44 5f 30 35 30 38 1e A5
Terminator = 0x0D*	S_CMD_059D	5A 00 00 0a 53 5f 43 4d 44 5f 30 35 39 44 6b A5
Terminator = 0x0D 0x0A	S_CMD_059A	5A 00 00 0a 53 5f 43 4d 44 5f 30 35 39 41 6e A5
Set Terminator (length = 7 data; data = 00~FF)	S_CMD_059R (length = 7 data; data = 00~FF)	5A 00 00 0a 53 5f 43 4d 44 5f 30 35 39 52 7d A5
Terminator = None	S_CMD_05T0	5A 00 00 0a 53 5f 43 4d 44 5f 30 35 54 30 72 A5
Terminator = CR*	S_CMD_05T1	5A 00 00 0a 53 5f 43 4d 44 5f 30 35 54 31 73 A5
Terminator = CR LF	S_CMD_05T2	5A 00 00 0a 53 5f 43 4d 44 5f 30 35 54 32 70 A5
Terminator = LF	S_CMD_05T3	5A 00 00 0a 53 5f 43 4d 44 5f 30 35 54 33 71 A5
Terminator = TAB	S_CMD_05T4	5A 00 00 0a 53 5f 43 4d 44 5f 30 35 54 34 76 A5
Terminator = ETX	S_CMD_05T5	5A 00 00 0a 53 5f 43 4d 44 5f 30 35 54 35 77 A5
Send DATA* (DATA = [Start][Center][End])	S_CMD_05D0	5A 00 00 0a 53 5f 43 4d 44 5f 30 35 44 30 62 A5



Send Start only	S_CMD_05D1	5A 00 00 0a 53 5f 43 4d 44 5f 30 35 44 31 63 A5
Send End only	S_CMD_05D2	5A 00 00 0a 53 5f 43 4d 44 5f 30 35 44 32 60 A5
Send Center only	S_CMD_05D3	5A 00 00 0a 53 5f 43 4d 44 5f 30 35 44 33 61 A5
Start length = # (# = 00~FF; 00 = 0, FF = 255)	S_CMD_05SL# (# = 00~FF; 00 = 0, FF = 255)	5A 00 00 0a 53 5f 43 4d 44 5f 30 35 53 4c 09 A5
End length = # (# = 00~FF; 00 = 0, FF = 255)	S_CMD_05EL# (# = 00~FF; 00 = 0, FF = 255)	5A 00 00 0a 53 5f 43 4d 44 5f 30 35 45 4c 1f A5
Unhide Start	S_CMD_HIS0	5A 00 00 0a 53 5f 43 4d 44 5f 48 49 53 30 71 A5
Hide Start	S_CMD_HIS1	5A 00 00 0a 53 5f 43 4d 44 5f 48 49 53 31 70 A5
Unhide Center	S_CMD_HIC0	5A 00 00 0a 53 5f 43 4d 44 5f 48 49 43 30 61 A5
Hide Center	S_CMD_HIC1	5A 00 00 0a 53 5f 43 4d 44 5f 48 49 43 31 60 A5
Unhide End	S_CMD_HIE0	5A 00 00 0a 53 5f 43 4d 44 5f 48 49 45 30 67 A5
Hide End	S_CMD_HIE1	5A 00 00 0a 53 5f 43 4d 44 5f 48 49 45 31 66 A5
Start Length of a Symbology	S_CMD_05CS	5A 00 00 0a 53 5f 43 4d 44 5f 30 35 43 53 06 A5
Center Length of a Symbology	S_CMD_05CC	5A 00 00 0a 53 5f 43 4d 44 5f 30 35 43 43 16 A5
End Length of a Symbology	S_CMD_05CE	5A 00 00 0a 53 5f 43 4d 44 5f 30 35 43 45 10 A5
Clear Data Length	S_CMD_CLAL	5A 00 00 0a 53 5f 43 4d 44 5f 43 4c 41 4c 11 A5
Input encoding format = GBK and UTF8*	S_CMD_05IA	5A 00 00 0a 53 5f 43 4d 44 5f 30 35 49 41 1e A5
Input encoding format = BIG5 and UTF8	S_CMD_05IF	5A 00 00 0a 53 5f 43 4d 44 5f 30 35 49 46 19 A5

Input encoding format = Shift-JIS and UTF8	S_CMD_05IJ	5A 00 00 0a 53 5f 43 4d 44 5f 30 35 49 4a 15 A5
Output encoding format = GBK	S_CMD_05OG	5A 00 00 0a 53 5f 43 4d 44 5f 30 35 4f 47 1e A5
Output encoding format = UNICODE	S_CMD_05ON	5A 00 00 0a 53 5f 43 4d 44 5f 30 35 4f 4e 17 A5
Output encoding format = BIG5	S_CMD_05OB	5A 00 00 0a 53 5f 43 4d 44 5f 30 35 4f 42 1b A5
Output encoding format = Shift-JIS	S_CMD_05OS	5A 00 00 0a 53 5f 43 4d 44 5f 30 35 4f 53 0a A5
Output encoding format = UTF8	S_CMD_05O8	5A 00 00 0a 53 5f 43 4d 44 5f 30 35 4f 38 61 A5
Output encoding format = Raw Data	S_CMD_05OO	5A 00 00 0a 53 5f 43 4d 44 5f 30 35 4f 4f 16 A5
Enable ECI mode*	C_CMD_ECI1	5A 00 00 0a 43 5f 43 4d 44 5f 45 43 49 31 7d A5
Disable ECI mode	C_CMD_ECI0	5A 00 00 0a 43 5f 43 4d 44 5f 45 43 49 30 7c A5
Disable QR Code with URL	C_CMD_URL0	5A 00 00 0a 43 5f 43 4d 44 5f 55 52 4c 30 78 A5
Enable QR Code with URL*	C_CMD_URL1	5A 00 00 0a 43 5f 43 4d 44 5f 55 52 4c 31 79 A5

Full data format can be either one of following:

[STX] + [Code ID] + [Preamble] + [DATA] + [Postamble] + [Terminator]

[STX] + [Preamble] + [Code ID] + [DATA] + [Postamble] + [Terminator]

By default STX, Code ID, Preamble and Postamble are disabled; terminator is 0x0D (Carriage Return). If full data format is disabled, only DATA (original data in a barcode) will be displayed. DATA can be further divided into [Start] + [Center] + [End] if the length of Start/End is defined.

To set Terminator, follow below steps:

1. Send S\_CMD\_059R
2. Send commands corresponding to the hex equivalents of desired data as Terminator; for example, if 'A' is desired data, send:  
S\_CMD\_D004

S\_CMD\_D001

(see **Appendix 1 – Data 0~F**)

3. Send S\_CMD\_DFFF to save configuration

(see **Appendix 1 – Data 0~F**)

Above steps are also applicable to Set Preamble/Postamble/Code ID.

## Symbologies

### General Settings

Function	VCP Command	UART Command (Hex)
Enable all symbologies	C_CMD_R111	5A 00 00 0a 43 5f 43 4d 44 5f 52 31 31 31 60 A5
Disable all symbologies	C_CMD_R000	5A 00 00 0a 43 5f 43 4d 44 5f 52 30 30 30 61 A5
Enable all 1D symbologies	C_CMD_R011	5A 00 00 0a 43 5f 43 4d 44 5f 52 46 46 46 17 A5
Disable all 1D symbologies	C_CMD_R010	5A 00 00 0a 43 5f 43 4d 44 5f 52 30 31 31 61 A5
Enable all 2D symbologies	C_CMD_R101	5A 00 00 0a 43 5f 43 4d 44 5f 52 30 31 30 60 A5
Disable all 2D symbologies	C_CMD_R100	5A 00 00 0a 43 5f 43 4d 44 5f 52 31 30 31 61 A5

### Surround GS1 Application Identifiers (AI's) with Parentheses

Function	VCP Command	UART Command (Hex)
Surround AI's with parentheses	C_CMD_GSA1	5A 00 00 0a 43 5f 43 4d 44 5f 47 53 41 31 67 A5
Not surround AI's with parentheses*	C_CMD_GSA0	5A 00 00 0a 43 5f 43 4d 44 5f 47 53 41 30 66 A5

## Inverse Barcode

Function	VCP Command	UART Command (Hex)
Enable all inverse barcodes	C_CMD_INV1	5A 00 00 0a 43 5f 43 4d 44 5f 49 4e 56 31 63 A5
Disable all inverse barcodes*	C_CMD_INV0	5A 00 00 0a 43 5f 43 4d 44 5f 49 4e 56 30 62 A5
Enable all 1D inverse barcodes	C_CMD_OIM1	5A 00 00 0a 43 5f 43 4d 44 5f 4f 49 4d 31 79 A5
Disable all 1D inverse barcodes*	C_CMD_OIM0	5A 00 00 0a 43 5f 43 4d 44 5f 4f 49 4d 30 78 A5
Enable inverse PDF417	C_CMD_PIM1	5A 00 00 0a 43 5f 43 4d 44 5f 50 49 4d 31 66 A5
Disable inverse PDF417*	C_CMD_PIM0	5A 00 00 0a 43 5f 43 4d 44 5f 50 49 4d 30 67 A5
Enable inverse Data Matrix	C_CMD_DIM1	5A 00 00 0a 43 5f 43 4d 44 5f 44 49 4d 31 72 A5
Disable inverse Data Matrix*	C_CMD_DIM0	5A 00 00 0a 43 5f 43 4d 44 5f 44 49 4d 30 73 A5
Enable inverse QR Code	C_CMD_QIM1	5A 00 00 0a 43 5f 43 4d 44 5f 51 49 4d 31 67 A5
Disable inverse QR Code*	C_CMD_QIM0	5A 00 00 0a 43 5f 43 4d 44 5f 51 49 4d 30 66 A5
Enable inverse MicroPDF417	C_CMD_MIM1	5A 00 00 0a 43 5f 43 4d 44 5f 4d 49 4d 31 7b A5
Disable inverse MicroPDF417*	C_CMD_MIM0	5A 00 00 0a 43 5f 43 4d 44 5f 4d 49 4d 30 7a A5
Enable inverse Aztec	C_CMD_AIM1	5A 00 00 0a 43 5f 43 4d 44 5f 41 49 4d 31 77 A5
Disable inverse Aztec*	C_CMD_AIM0	5A 00 00 0a 43 5f 43 4d 44 5f 41 49 4d 30 76 A5
Enable inverse MaxiCode	C_CMD_MAM1	5A 00 00 0a 43 5f 43 4d 44 5f 4d 41 4d 31 73 A5
Disable inverse MaxiCode*	C_CMD_MAM0	5A 00 00 0a 43 5f 43 4d 44 5f 4d 41 4d 30 72 A5
Enable inverse HanXin	C_CMD_HIM1	5A 00 00 0a 43 5f 43 4d 44

		5f 48 49 4d 31 7e A5
Disable inverse HanXin*	C_CMD_HIM0	5A 00 00 0a 43 5f 43 4d 44 5f 48 49 4d 30 7f A5
Enable inverse DotCode	C_CMD_TIM1	5A 00 00 0a 43 5f 43 4d 44 5f 54 49 4d 31 62 A5
Disable inverse DotCode*	C_CMD_TIM0	5A 00 00 0a 43 5f 43 4d 44 5f 54 49 4d 30 63 A5

## Code128

Function	VCP Command	UART Command (Hex)
Reset Code128 to default	C_CMD_28FF	5A 00 00 0a 43 5f 43 4d 44 5f 32 38 46 46 09 A5
Enable Code128*	C_CMD_2801	5A 00 00 0a 43 5f 43 4d 44 5f 32 38 30 31 08 A5
Disable Code128	C_CMD_2800	5A 00 00 0a 43 5f 43 4d 44 5f 32 38 30 30 09 A5
Min length = 00*	C_CMD_280A00	5A 00 00 0c 43 5f 43 4d 44 5f 32 38 30 41 30 30 7e A5
Min length = 04	C_CMD_280A04	5A 00 00 0c 43 5f 43 4d 44 5f 32 38 30 41 30 34 7a A5
Min length = # (# = 00~FF; 00 = 0, FF = 255)	C_CMD_280A# (# = 00~FF; 00 = 0, FF = 255)	5A 00 00 0a 43 5f 43 4d 44 5f 32 38 30 41 78 A5
Max length = 32	C_CMD_280B20	5A 00 00 0c 43 5f 43 4d 44 5f 32 38 30 42 32 30 7f A5
Max length = 255*	C_CMD_280BFF	5A 00 00 0c 43 5f 43 4d 44 5f 32 38 30 42 46 46 7d A5
Max length = # (# = 00~FF; 00 = 0, FF = 255)	C_CMD_280B# (# = 00~FF; 00 = 0, FF = 255)	5A 00 00 0a 43 5f 43 4d 44 5f 32 38 30 42 7b A5

## EAN-8

Function	VCP Command	UART Command (Hex)
Reset EAN-8 to default	C_CMD_08FF	5A 00 00 0a 43 5f 43 4d 44

		5f 30 38 46 46 0b A5
Enable EAN-8*	C_CMD_0801	5A 00 00 0a 43 5f 43 4d 44 5f 30 38 30 31 0a A5
Disable EAN-8	C_CMD_0800	5A 00 00 0a 43 5f 43 4d 44 5f 30 38 30 30 0b A5
Send check digit*	C_CMD_0803	5A 00 00 0a 43 5f 43 4d 44 5f 30 38 30 33 08 A5
Not send check digit	C_CMD_0802	5A 00 00 0a 43 5f 43 4d 44 5f 30 38 30 32 09 A5
Enable 2-digit supplement	C_CMD_0821	5A 00 00 0a 43 5f 43 4d 44 5f 30 38 32 31 08 A5
Disable 2-digit supplement*	C_CMD_0820	5A 00 00 0a 43 5f 43 4d 44 5f 30 38 32 30 09 A5
Enable 5-digit supplement	C_CMD_0851	5A 00 00 0a 43 5f 43 4d 44 5f 30 38 35 31 0f A5
Disable 5-digit supplement*	C_CMD_0850	5A 00 00 0a 43 5f 43 4d 44 5f 30 38 35 30 0e A5
Disable EAN-8 expand to EAN-13*	C_CMD_0830	5A 00 00 0a 43 5f 43 4d 44 5f 30 38 33 30 08 A5
Enable EAN-8 expand to EAN-13	C_CMD_0831	5A 00 00 0a 43 5f 43 4d 44 5f 30 38 33 31 09 A5

## EAN-13

Function	VCP Command	UART Command (Hex)
Reset EAN-13 to default	C_CMD_13FF	5A 00 00 0a 43 5f 43 4d 44 5f 31 33 46 46 01 A5
Enable EAN-13*	C_CMD_1301	5A 00 00 0a 43 5f 43 4d 44 5f 31 33 30 31 00 A5
Disable EAN-13	C_CMD_1300	5A 00 00 0a 43 5f 43 4d 44 5f 31 33 30 30 01 A5
Send check digit*	C_CMD_1303	5A 00 00 0a 43 5f 43 4d 44 5f 31 33 30 33 02 A5
Not send check digit	C_CMD_1302	5A 00 00 0a 43 5f 43 4d 44 5f 31 33 30 32 03 A5
Enable 2-digit	C_CMD_1321	5A 00 00 0a 43 5f 43 4d 44

supplement		5f 31 33 32 31 02 A5
Disable 2-digit supplement*	C_CMD_1320	5A 00 00 0a 43 5f 43 4d 44 5f 31 33 32 30 03 A5
Enable 5-digit supplement	C_CMD_1351	5A 00 00 0a 43 5f 43 4d 44 5f 31 33 35 31 05 A5
Disable 5-digit supplement*	C_CMD_1350	5A 00 00 0a 43 5f 43 4d 44 5f 31 33 35 30 04 A5
Disable EAN13 convert to ISBN*	C_CMD_BN00	5A 00 00 0a 43 5f 43 4d 44 5f 42 4e 30 30 0f A5
Enable EAN13 convert to ISBN	C_CMD_BN01	5A 00 00 0a 43 5f 43 4d 44 5f 42 4e 30 31 0e A5
Disable EAN13 convert to ISSN*	C_CMD_SN00	5A 00 00 0a 43 5f 43 4d 44 5f 53 4e 30 30 1e A5
Enable EAN13 convert to ISSN	C_CMD_SN01	5A 00 00 0a 43 5f 43 4d 44 5f 53 4e 30 31 1f A5

## UPC-E0

Function	VCP Command	UART Command (Hex)
Reset UPC-E0 to default	C_CMD_E0FF	5A 00 00 0a 43 5f 43 4d 44 5f 45 30 46 46 76 A5
Enable UPC-E0*	C_CMD_E001	5A 00 00 0a 43 5f 43 4d 44 5f 45 30 30 31 77 A5
Disable UPC-E0	C_CMD_E000	5A 00 00 0a 43 5f 43 4d 44 5f 45 30 30 30 76 A5
Send check digit*	C_CMD_E003	5A 00 00 0a 43 5f 43 4d 44 5f 45 30 30 33 75 A5
Not send check digit	C_CMD_E002	5A 00 00 0a 43 5f 43 4d 44 5f 45 30 30 32 74 A5
Send system number*	C_CMD_E005	5A 00 00 0a 43 5f 43 4d 44 5f 45 30 30 35 73 A5
Not send system number	C_CMD_E004	5A 00 00 0a 43 5f 43 4d 44 5f 45 30 30 34 72 A5
Enable 2-digit supplement	C_CMD_E021	5A 00 00 0a 43 5f 43 4d 44 5f 45 30 32 31 75 A5
Disable 2-digit	C_CMD_E020	5A 00 00 0a 43 5f 43 4d 44

supplement*		5f 45 30 32 30 74 A5
Enable 5-digit supplement	C_CMD_E051	5A 00 00 0a 43 5f 43 4d 44 5f 45 30 35 31 72 A5
Disable 5-digit supplement*	C_CMD_E050	5A 00 00 0a 43 5f 43 4d 44 5f 45 30 35 30 73 A5
Enable supplement required	C_CMD_E0A1	5A 00 00 0a 43 5f 43 4d 44 5f 45 30 41 31 06 A5
Disable supplement required*	C_CMD_E0A0	5A 00 00 0a 43 5f 43 4d 44 5f 45 30 41 30 07 A5
Disable UPC-E0 expand to UPC-A*	C_CMD_E0T0	5A 00 00 0a 43 5f 43 4d 44 5f 45 30 54 30 12 A5
Enable UPC-E0 expand to UPC-A	C_CMD_E0T1	5A 00 00 0a 43 5f 43 4d 44 5f 45 30 54 31 13 A5

## UPC-E1

Function	VCP Command	UART Command (Hex)
Reset UPC-E1 to default	C_CMD_E1FF	5A 00 00 0a 43 5f 43 4d 44 5f 45 31 46 46 77 A5
Enable UPC-E1*	C_CMD_E101	5A 00 00 0a 43 5f 43 4d 44 5f 45 31 30 31 76 A5
Disable UPC-E1	C_CMD_E100	5A 00 00 0a 43 5f 43 4d 44 5f 45 31 30 30 77 A5
Enable 2-digit supplement	C_CMD_E121	5A 00 00 0a 43 5f 43 4d 44 5f 45 31 32 31 74 A5
Disable 2-digit supplement*	C_CMD_E120	5A 00 00 0a 43 5f 43 4d 44 5f 45 31 32 30 75 A5
Enable 5-digit supplement	C_CMD_E151	5A 00 00 0a 43 5f 43 4d 44 5f 45 31 35 31 73 A5
Disable 5-digit supplement*	C_CMD_E150	5A 00 00 0a 43 5f 43 4d 44 5f 45 31 35 30 72 A5
Enable supplement required	C_CMD_E1A1	5A 00 00 0a 43 5f 43 4d 44 5f 45 31 41 31 07 A5
Disable supplement required*	C_CMD_E1A0	5A 00 00 0a 43 5f 43 4d 44 5f 45 31 41 30 06 A5
Send check digit*	C_CMD_E103	5A 00 00 0a 43 5f 43 4d 44



		5f 45 31 30 33 74 A5
Not send check digit	C_CMD_E102	5A 00 00 0a 43 5f 43 4d 44 5f 45 31 30 32 75 A5
Send system number*	C_CMD_E105	5A 00 00 0a 43 5f 43 4d 44 5f 45 31 30 35 72 A5
Not send system number	C_CMD_E104	5A 00 00 0a 43 5f 43 4d 44 5f 45 31 30 34 73 A5
Disable UPC-E1 expand to UPC-A*	C_CMD_E1T0	5A 00 00 0a 43 5f 43 4d 44 5f 45 31 54 30 13 A5
Enable UPC-E1 expand to UPC-A	C_CMD_E1T1	5A 00 00 0a 43 5f 43 4d 44 5f 45 31 54 31 12 A5

## UPC-A

Function	VCP Command	UART Command (Hex)
Reset UPC-A to default	C_CMD_CAFF	5A 00 00 0a 43 5f 43 4d 44 5f 43 41 46 46 01 A5
Enable UPC-A*	C_CMD_CA01	5A 00 00 0a 43 5f 43 4d 44 5f 43 41 30 31 00 A5
Disable UPC-A	C_CMD_CA00	5A 00 00 0a 43 5f 43 4d 44 5f 43 41 30 30 01 A5
Disable UPC-A to EAN-13*	C_CMD_CAE0	5A 00 00 0a 43 5f 43 4d 44 5f 43 41 45 30 74 A5
Enable UPC-A expand to EAN-13	C_CMD_CAE1	5A 00 00 0a 43 5f 43 4d 44 5f 43 41 45 31 75 A5
Enable 2-digit supplement	C_CMD_CA21	5A 00 00 0a 43 5f 43 4d 44 5f 43 41 32 31 02 A5
Disable 2-digit supplement*	C_CMD_CA20	5A 00 00 0a 43 5f 43 4d 44 5f 43 41 32 30 03 A5
Enable 5-digit supplement	C_CMD_CA51	5A 00 00 0a 43 5f 43 4d 44 5f 43 41 35 31 05 A5
Disable 5-digit supplement*	C_CMD_CA50	5A 00 00 0a 43 5f 43 4d 44 5f 43 41 35 30 04 A5
Enable supplement required	C_CMD_CAA1	5A 00 00 0a 43 5f 43 4d 44 5f 43 41 41 31 71 A5
Disable supplement	C_CMD_CAA0	5A 00 00 0a 43 5f 43 4d 44

required*		5f 43 41 41 30 70 A5
Send check digit*	C_CMD_CA03	5A 00 00 0a 43 5f 43 4d 44 5f 43 41 30 33 02 A5
Not send check digit	C_CMD_CA02	5A 00 00 0a 43 5f 43 4d 44 5f 43 41 30 32 03 A5
Send system number*	C_CMD_CA05	5A 00 00 0a 43 5f 43 4d 44 5f 43 41 30 35 04 A5
Not send system number	C_CMD_CA04	5A 00 00 0a 43 5f 43 4d 44 5f 43 41 30 34 05 A5

## Interleaved 2/5

Function	VCP Command	UART Command (Hex)
Reset Interleaved 2/5 to default	C_CMD_ITFF	5A 00 00 0a 43 5f 43 4d 44 5f 49 54 46 46 1e A5
Enable Interleaved 2/5*	C_CMD_IT01	5A 00 00 0a 43 5f 43 4d 44 5f 49 54 30 31 1f A5
Disable Interleaved 2/5	C_CMD_IT00	5A 00 00 0a 43 5f 43 4d 44 5f 49 54 30 30 1e A5
Min length = 00*	C_CMD_IT0A00	5A 00 00 0c 43 5f 43 4d 44 5f 49 54 30 41 30 30 69 A5
Min length = 04	C_CMD_IT0A04	5A 00 00 0c 43 5f 43 4d 44 5f 49 54 30 41 30 34 6d A5
Min length = # (# = 00~FF; 00 = 0, FF = 255)	C_CMD_IT0A# (# = 00~FF; 00 = 0, FF = 255)	5A 00 00 0a 43 5f 43 4d 44 5f 49 54 30 41 6f A5
Max length = 32	C_CMD_IT0B20	5A 00 00 0c 43 5f 43 4d 44 5f 49 54 30 42 32 30 68 A5
Max length = 255*	C_CMD_IT0BFF	5A 00 00 0c 43 5f 43 4d 44 5f 49 54 30 42 46 46 6a A5
Max length = # (# = 00~FF; 00 = 0, FF = 255)	C_CMD_IT0B# (# = 00~FF; 00 = 0, FF = 255)	5A 00 00 0a 43 5f 43 4d 44 5f 49 54 30 42 6c A5
Disable verification*	C_CMD_IT02	5A 00 00 0a 43 5f 43 4d 44 5f 49 54 30 32 1c A5
Enable USS verification, not	C_CMD_IT04	5A 00 00 0a 43 5f 43 4d 44

send check digit		5f 49 54 30 34 1a A5
Enable USS verification, send check digit	C_CMD_IT03	5A 00 00 0a 43 5f 43 4d 44 5f 49 54 30 33 1d A5
Enable OPCC verification, not send check digit	C_CMD_IT06	5A 00 00 0a 43 5f 43 4d 44 5f 49 54 30 36 18 A5
Enable OPCC verification, send check digit	C_CMD_IT05	5A 00 00 0a 43 5f 43 4d 44 5f 49 54 30 35 1b A5

## Matrix 2/5

Function	VCP Command	UART Command (Hex)
Reset Matrix 2/5 to default	C_CMD_MAFF	5A 00 00 0a 43 5f 43 4d 44 5f 4d 41 46 46 0f A5
Enable Matrix 2/5	C_CMD_MA01	5A 00 00 0a 43 5f 43 4d 44 5f 4d 41 30 31 0e A5
Disable Matrix 2/5*	C_CMD_MA00	5A 00 00 0a 43 5f 43 4d 44 5f 4d 41 30 30 0f A5
Min length = 00*	C_CMD_MA0A00	5A 00 00 0c 43 5f 43 4d 44 5f 4d 41 30 41 30 30 78 A5
Min length = 04	C_CMD_MA0A04	5A 00 00 0c 43 5f 43 4d 44 5f 4d 41 30 41 30 34 7c A5
Min length = # (# = 00~FF; 00 = 0, FF = 255)	C_CMD_MA0A# (# = 00~FF; 00 = 0, FF = 255)	5A 00 00 0a 43 5f 43 4d 44 5f 4d 41 30 41 7e A5
Max length = 32	C_CMD_MA0B20	5A 00 00 0c 43 5f 43 4d 44 5f 4d 41 30 42 32 30 79 A5
Max length = 255*	C_CMD_MA0BFF	5A 00 00 0c 43 5f 43 4d 44 5f 4d 41 30 42 46 46 7b A5
Max length = # (# = 00~FF; 00 = 0, FF = 255)	C_CMD_MA0B# (# = 00~FF; 00 = 0, FF = 255)	5A 00 00 0a 43 5f 43 4d 44 5f 4d 41 30 42 7d A5
Disable verification*	C_CMD_MA02	5A 00 00 0a 43 5f 43 4d 44 5f 4d 41 30 32 0d A5
Enable verification, not	C_CMD_MA04	5A 00 00 0a 43 5f 43 4d 44

send check digit		5f 4d 41 30 34 0b A5
Enable verification, send check digit	C_CMD_MA03	5A 00 00 0a 43 5f 43 4d 44 5f 4d 41 30 33 0c A5

## Industrial 2/5

Function	VCP Command	UART Command (Hex)
Reset Industrial 2/5 to default	C_CMD_INFF	5A 00 00 0a 43 5f 43 4d 44 5f 49 4e 46 46 04 A5
Enable Industrial 2/5	C_CMD_IN01	5A 00 00 0a 43 5f 43 4d 44 5f 49 4e 30 31 05 A5
Disable Industrial 2/5*	C_CMD_IN00	5A 00 00 0a 43 5f 43 4d 44 5f 49 4e 30 30 04 A5
Min length = 00*	C_CMD_IN0A00	5A 00 00 0c 43 5f 43 4d 44 5f 49 4e 30 41 30 30 73 A5
Min length = 04	C_CMD_IN0A04	5A 00 00 0c 43 5f 43 4d 44 5f 49 4e 30 41 30 34 77 A5
Min length = # (# = 00~FF; 00 = 0, FF = 255)	C_CMD_IN0A# (# = 00~FF; 00 = 0, FF = 255)	5A 00 00 0a 43 5f 43 4d 44 5f 49 4e 30 41 75 A5
Max length = 32	C_CMD_IN0B20	5A 00 00 0c 43 5f 43 4d 44 5f 49 4e 30 42 32 30 72 A5
Max length = 255*	C_CMD_IN0BFF	5A 00 00 0c 43 5f 43 4d 44 5f 49 4e 30 42 46 46 70 A5
Max length = # (# = 00~FF; 00 = 0, FF = 255)	C_CMD_IN0B# (# = 00~FF; 00 = 0, FF = 255)	5A 00 00 0a 43 5f 43 4d 44 5f 49 4e 30 42 76 A5
Disable verification*	C_CMD_IN02	5A 00 00 0a 43 5f 43 4d 44 5f 49 4e 30 32 06 A5
Enable verification, not send check digit	C_CMD_IN03	5A 00 00 0a 43 5f 43 4d 44 5f 49 4e 30 33 07 A5
Enable verification, send check digit	C_CMD_IN04	5A 00 00 0a 43 5f 43 4d 44 5f 49 4e 30 34 00 A5

## IATA 2/5

Function	VCP Command	UART Command (Hex)
Reset IATA 2/5 to default	C_CMD_IAFF	5A 00 00 0a 43 5f 43 4d 44 5f 49 41 46 46 0b A5
Enable IATA 2/5	C_CMD_IA01	5A 00 00 0a 43 5f 43 4d 44 5f 49 41 30 31 0a A5
Disable IATA 2/5*	C_CMD_IA00	5A 00 00 0a 43 5f 43 4d 44 5f 49 41 30 30 0b A5
Min length = 00*	C_CMD_IA0A00	5A 00 00 0c 43 5f 43 4d 44 5f 49 41 30 41 30 30 7c A5
Min length = 04	C_CMD_IA0A04	5A 00 00 0c 43 5f 43 4d 44 5f 49 41 30 41 30 34 78 A5
Min length = # (# = 00~FF; 00 = 0, FF = 255)	C_CMD_IA0A# (# = 00~FF; 00 = 0, FF = 255)	5A 00 00 0a 43 5f 43 4d 44 5f 49 41 30 41 7a A5
Max length = 32	C_CMD_IA0B20	5A 00 00 0c 43 5f 43 4d 44 5f 49 41 30 42 32 30 7d A5
Max length = 255*	C_CMD_IA0BFF	5A 00 00 0c 43 5f 43 4d 44 5f 49 41 30 42 46 46 7f A5
Max length = # (# = 00~FF; 00 = 0, FF = 255)	C_CMD_IA0B# (# = 00~FF; 00 = 0, FF = 255)	5A 00 00 0a 43 5f 43 4d 44 5f 49 41 30 42 79 A5
Disable verification*	C_CMD_IA02	5A 00 00 0a 43 5f 43 4d 44 5f 49 41 30 32 09 A5
Enable verification, not send check digit	C_CMD_IA04	5A 00 00 0a 43 5f 43 4d 44 5f 49 41 30 34 0f A5
Enable verification, send check digit	C_CMD_IA03	5A 00 00 0a 43 5f 43 4d 44 5f 49 41 30 33 08 A5

## Code39

Function	VCP Command	UART Command (Hex)
Reset Code39 to default	C_CMD_39FF	5A 00 00 0a 43 5f 43 4d 44 5f 33 39 46 46 09 A5
Enable Code39*	C_CMD_3901	5A 00 00 0a 43 5f 43 4d 44

		5f 33 39 30 31 08 A5
Disable Code39	C_CMD_3900	5A 00 00 0a 43 5f 43 4d 44 5f 33 39 30 30 09 A5
Send Start & Stop	C_CMD_3907	5A 00 00 0a 43 5f 43 4d 44 5f 33 39 30 37 0e A5
Not send Start & Stop*	C_CMD_3906	5A 00 00 0a 43 5f 43 4d 44 5f 33 39 30 36 0f A5
Min length = 00*	C_CMD_390A00	5A 00 00 0c 43 5f 43 4d 44 5f 33 39 30 41 30 30 7e A5
Min length = 04	C_CMD_390A04	5A 00 00 0c 43 5f 43 4d 44 5f 33 39 30 41 30 34 7a A5
Min length = # (# = 00~FF; 00 = 0, FF = 255)	C_CMD_390A# (# = 00~FF; 00 = 0, FF = 255)	5A 00 00 0a 43 5f 43 4d 44 5f 33 39 30 41 78 A5
Max length = 32	C_CMD_390B20	5A 00 00 0c 43 5f 43 4d 44 5f 33 39 30 42 32 30 7f A5
Max length = 255*	C_CMD_390BFF	5A 00 00 0c 43 5f 43 4d 44 5f 33 39 30 42 46 46 7d A5
Max length = # (# = 00~FF; 00 = 0, FF = 255)	C_CMD_390B# (# = 00~FF; 00 = 0, FF = 255)	5A 00 00 0a 43 5f 43 4d 44 5f 33 39 30 42 7b A5
Disable verification*	C_CMD_3902	5A 00 00 0a 43 5f 43 4d 44 5f 33 39 30 32 0b A5
Enable verification, not send check digit	C_CMD_3904	5A 00 00 0a 43 5f 43 4d 44 5f 33 39 30 34 0d A5
Enable verification, send check digit	C_CMD_3903	5A 00 00 0a 43 5f 43 4d 44 5f 33 39 30 33 0a A5
Disable Code32*	C_CMD_39M0	5A 00 00 0a 43 5f 43 4d 44 5f 33 39 4d 30 74 A5
Enable Code32	C_CMD_39M1	5A 00 00 0a 43 5f 43 4d 44 5f 33 39 4d 31 75 A5
Send Code32 preamble	C_CMD_32A1	5A 00 00 0a 43 5f 43 4d 44 5f 33 32 41 31 72 A5
Not send Code32 preamble*	C_CMD_32A0	5A 00 00 0a 43 5f 43 4d 44 5f 33 32 41 30 73 A5
Send Code32 check digit	C_CMD_32P1	5A 00 00 0a 43 5f 43 4d 44

		5f 33 32 50 31 63 A5
Not send Code32 check digit*	C_CMD_32P0	5A 00 00 0a 43 5f 43 4d 44 5f 33 32 50 30 62 A5
Disable Full ASCII Code39*	C_CMD_39M2	5A 00 00 0a 43 5f 43 4d 44 5f 33 39 4d 32 76 A5
Enable Full ASCII Code39	C_CMD_39M3	5A 00 00 0a 43 5f 43 4d 44 5f 33 39 4d 33 77 A5

## Code93

Function	VCP Command	UART Command (Hex)
Reset Code93 to default	C_CMD_93FF	5A 00 00 0a 43 5f 43 4d 44 5f 39 33 46 46 09 A5
Enable Code93*	C_CMD_9301	5A 00 00 0a 43 5f 43 4d 44 5f 39 33 30 31 08 A5
Disable Code93	C_CMD_9300	5A 00 00 0a 43 5f 43 4d 44 5f 39 33 30 30 09 A5
Min length = 00*	C_CMD_930A00	5A 00 00 0c 43 5f 43 4d 44 5f 39 33 30 41 30 30 7e A5
Min length = 04	C_CMD_930A04	5A 00 00 0c 43 5f 43 4d 44 5f 39 33 30 41 30 34 7a A5
Min length = # (# = 00~FF; 00 = 0, FF = 255)	C_CMD_930A# (# = 00~FF; 00 = 0, FF = 255)	5A 00 00 0a 43 5f 43 4d 44 5f 39 33 30 41 78 A5
Max length = 32	C_CMD_930B20	5A 00 00 0c 43 5f 43 4d 44 5f 39 33 30 42 32 30 7f A5
Max length = 255*	C_CMD_930BFF	5A 00 00 0c 43 5f 43 4d 44 5f 39 33 30 42 46 46 7d A5
Max length = # (# = 00~FF; 00 = 0, FF = 255)	C_CMD_930B# (# = 00~FF; 00 = 0, FF = 255)	5A 00 00 0a 43 5f 43 4d 44 5f 39 33 30 42 7b A5

## Codabar

Function	VCP Command	UART Command (Hex)
Reset Codabar to default	C_CMD_BAFF	5A 00 00 0a 43 5f 43 4d 44

		5f 42 41 46 46 00 A5
Enable Codabar*	C_CMD_BA01	5A 00 00 0a 43 5f 43 4d 44 5f 42 41 30 31 01 A5
Disable Codabar	C_CMD_BA00	5A 00 00 0a 43 5f 43 4d 44 5f 42 41 30 30 00 A5
Min length = 00*	C_CMD_BA0A00	5A 00 00 0c 43 5f 43 4d 44 5f 42 41 30 41 30 30 77 A5
Min length = 04	C_CMD_BA0A04	5A 00 00 0c 43 5f 43 4d 44 5f 42 41 30 41 30 34 73 A5
Min length = # (# = 00~FF; 00 = 0, FF = 255)	C_CMD_BA0A# (# = 00~FF; 00 = 0, FF = 255)	5A 00 00 0a 43 5f 43 4d 44 5f 42 41 30 41 71 A5
Max length = 32	C_CMD_BA0B20	5A 00 00 0c 43 5f 43 4d 44 5f 42 41 30 42 32 30 76 A5
Max length = 255*	C_CMD_BA0BFF	5A 00 00 0c 43 5f 43 4d 44 5f 42 41 30 42 46 46 74 A5
Max length = # (# = 00~FF; 00 = 0, FF = 255)	C_CMD_BA0B# (# = 00~FF; 00 = 0, FF = 255)	5A 00 00 0a 43 5f 43 4d 44 5f 42 41 30 42 72 A5
Disable verification*	C_CMD_BA02	5A 00 00 0a 43 5f 43 4d 44 5f 42 41 30 32 02 A5
Mod10 verification, not send check digit	C_CMD_BA04	5A 00 00 0a 43 5f 43 4d 44 5f 42 41 30 34 04 A5
Mod10 verification, send check digit	C_CMD_BA03	5A 00 00 0a 43 5f 43 4d 44 5f 42 41 30 33 03 A5
Mod16 verification, not send check digit	C_CMD_BA06	5A 00 00 0a 43 5f 43 4d 44 5f 42 41 30 36 06 A5
Mod16 verification, send check digit	C_CMD_BA05	5A 00 00 0a 43 5f 43 4d 44 5f 42 41 30 35 05 A5
Not send Start & Stop	C_CMD_BAS0	5A 00 00 0a 43 5f 43 4d 44 5f 42 41 53 30 63 A5
Start & Stop = ABCD/ABCD*	C_CMD_BAS2	5A 00 00 0a 43 5f 43 4d 44 5f 42 41 53 32 61 A5
Start & Stop = ABCD/TN*E	C_CMD_BAS3	5A 00 00 0a 43 5f 43 4d 44 5f 42 41 53 33 60 A5
Start & Stop = abcd/abcd	C_CMD_BAS4	5A 00 00 0a 43 5f 43 4d 44



		5f 42 41 53 34 67 A5
Start & Stop = abcd/tn*e	C_CMD_BAS5	5A 00 00 0a 43 5f 43 4d 44 5f 42 41 53 35 66 A5

## Code11

Function	VCP Command	UART Command (Hex)
Reset Code11 to default	C_CMD_11FF	5A 00 00 0a 43 5f 43 4d 44 5f 31 31 46 46 03 A5
Enable Code11	C_CMD_1101	5A 00 00 0a 43 5f 43 4d 44 5f 31 31 30 31 02 A5
Disable Code11*	C_CMD_1100	5A 00 00 0a 43 5f 43 4d 44 5f 31 31 30 30 03 A5
Min length = 00*	C_CMD_110A00	5A 00 00 0c 43 5f 43 4d 44 5f 31 31 30 41 30 30 74 A5
Min length = 04	C_CMD_110A04	5A 00 00 0c 43 5f 43 4d 44 5f 31 31 30 41 30 34 70 A5
Min length = # (# = 00~FF; 00 = 0, FF = 255)	C_CMD_110A# (# = 00~FF; 00 = 0, FF = 255)	5A 00 00 0a 43 5f 43 4d 44 5f 31 31 30 41 72 A5
Max length = 32	C_CMD_110B20	5A 00 00 0c 43 5f 43 4d 44 5f 31 31 30 42 32 30 75 A5
Max length = 255*	C_CMD_110BFF	5A 00 00 0c 43 5f 43 4d 44 5f 31 31 30 42 46 46 77 A5
Max length = # (# = 00~FF; 00 = 0, FF = 255)	C_CMD_110B# (# = 00~FF; 00 = 0, FF = 255)	5A 00 00 0a 43 5f 43 4d 44 5f 31 31 30 42 71 A5
Disable verification	C_CMD_11P0	5A 00 00 0a 43 5f 43 4d 44 5f 31 31 50 30 63 A5
1-digit verification for Code11 of no more than 10 digits, 2-digit verification for Code11 of more than 10 digits, send check digit	C_CMD_11P1	5A 00 00 0a 43 5f 43 4d 44 5f 31 31 50 31 62 A5

1-digit verification for Code11 of no more than 10 digits, 2-digit verification for Code11 of more than 10 digits, not send check digit*	C_CMD_11P2	5A 00 00 0a 43 5f 43 4d 44 5f 31 31 50 32 61 A5
1-digit verification, send check digit	C_CMD_11P3	5A 00 00 0a 43 5f 43 4d 44 5f 31 31 50 33 60 A5
1-digit verification, not send check digit	C_CMD_11P4	5A 00 00 0a 43 5f 43 4d 44 5f 31 31 50 34 67 A5
2-digit verification, send check digit	C_CMD_11P5	5A 00 00 0a 43 5f 43 4d 44 5f 31 31 50 35 66 A5
2-digit verification, not send check digit	C_CMD_11P6	5A 00 00 0a 43 5f 43 4d 44 5f 31 31 50 36 65 A5

## MSI Plessey

Function	VCP Command	UART Command (Hex)
Reset MSI to default	C_CMD_MSFF	5A 00 00 0a 43 5f 43 4d 44 5f 4d 53 46 46 1d A5
Enable MSI Plessey	C_CMD_MS01	5A 00 00 0a 43 5f 43 4d 44 5f 4d 53 30 31 1c A5
Disable MSI Plessey*	C_CMD_MS00	5A 00 00 0a 43 5f 43 4d 44 5f 4d 53 30 30 1d A5
Min length = 00*	C_CMD_MS0A00	5A 00 00 0c 43 5f 43 4d 44 5f 4d 53 30 41 30 30 6a A5
Min length = 04	C_CMD_MS0A04	5A 00 00 0c 43 5f 43 4d 44 5f 4d 53 30 41 30 34 6e A5
Min length = # (# = 00~FF; 00 = 0, FF = 255)	C_CMD_MS0A# (# = 00~FF; 00 = 0, FF = 255)	5A 00 00 0a 43 5f 43 4d 44 5f 4d 53 30 41 6c A5
Max length = 32	C_CMD_MS0B20	5A 00 00 0c 43 5f 43 4d 44 5f 4d 53 30 42 32 30 6b A5
Max length = 255*	C_CMD_MS0BFF	5A 00 00 0c 43 5f 43 4d 44 5f 4d 53 30 42 46 46 69 A5
Max length = #	C_CMD_MS0B#	5A 00 00 0a 43 5f 43 4d 44

(# = 00~FF; 00 = 0, FF = 255)	(# = 00~FF; 00 = 0, FF = 255)	5f 4d 53 30 42 6f A5
Disable verification	C_CMD_MSP0	5A 00 00 0a 43 5f 43 4d 44 5f 4d 53 50 30 7d A5
Mod 10 verification, send check digit	C_CMD_MSP1	5A 00 00 0a 43 5f 43 4d 44 5f 4d 53 50 31 7c A5
Mod 10 verification, not send check digit*	C_CMD_MSP2	5A 00 00 0a 43 5f 43 4d 44 5f 4d 53 50 32 7f A5
Mod 11 verification, send check digit	C_CMD_MSP3	5A 00 00 0a 43 5f 43 4d 44 5f 4d 53 50 33 7e A5
Mod 11 verification, not send check digit	C_CMD_MSP4	5A 00 00 0a 43 5f 43 4d 44 5f 4d 53 50 34 79 A5
Mod 10/10 verification, send check digit	C_CMD_MSP5	5A 00 00 0a 43 5f 43 4d 44 5f 4d 53 50 35 78 A5
Mod 10/10 verification, not send check digit	C_CMD_MSP6	5A 00 00 0a 43 5f 43 4d 44 5f 4d 53 50 36 7b A5
Mod 11/10 verification, send check digit	C_CMD_MSP7	5A 00 00 0a 43 5f 43 4d 44 5f 4d 53 50 37 7a A5
Mod 11/10 verification, not send check digit	C_CMD_MSP8	5A 00 00 0a 43 5f 43 4d 44 5f 4d 53 50 38 75 A5

## GS1 DataBar

Function	VCP Command	UART Command (Hex)
Enable GS1 DataBar*	C_CMD_GS41	5A 00 00 0a 43 5f 43 4d 44 5f 47 53 34 31 12 A5
Disable GS1 DataBar	C_CMD_GS40	5A 00 00 0a 43 5f 43 4d 44 5f 47 53 34 30 13 A5

## GS1 DataBar Limited

Function	VCP Command	UART Command (Hex)
Enable GS1 DataBar Limited*	C_CMD_GSL1	5A 00 00 0a 43 5f 43 4d 44 5f 47 53 4c 31 6a A5
Disable GS1 DataBar Limited	C_CMD_GSL0	5A 00 00 0a 43 5f 43 4d 44 5f 47 53 4c 30 6b A5

## GS1 DataBar Expanded

Function	VCP Command	UART Command (Hex)
Enable GS1 DataBar Expanded*	C_CMD_GSE1	5A 00 00 0a 43 5f 43 4d 44 5f 47 53 45 31 63 A5
Disable GS1 DataBar Expanded	C_CMD_GSE0	5A 00 00 0a 43 5f 43 4d 44 5f 47 53 45 30 62 A5

## Plessey

Function	VCP Command	UART Command (Hex)
Reset Plessey to default	C_CMD_PEFF	5A 00 00 0a 43 5f 43 4d 44 5f 50 45 46 46 16 A5
Enable Plessey	C_CMD_PE01	5A 00 00 0a 43 5f 43 4d 44 5f 50 45 30 31 17 A5
Disable Plessey*	C_CMD_PE00	5A 00 00 0a 43 5f 43 4d 44 5f 50 45 30 30 16 A5
Min length = 00*	C_CMD_PE0A00	5A 00 00 0c 43 5f 43 4d 44 5f 50 45 30 41 30 30 61 A5
Min length = 04	C_CMD_PE0A04	5A 00 00 0c 43 5f 43 4d 44 5f 50 45 30 41 30 34 65 A5
Min length = # (# = 00~FF; 00 = 0, FF = 255)	C_CMD_PE0A	5A 00 00 0a 43 5f 43 4d 44 5f 50 45 30 41 67 A5
Max length = 32	C_CMD_PE0B20	5A 00 00 0c 43 5f 43 4d 44 5f 50 45 30 42 32 30 60 A5
Max length = 255*	C_CMD_PE0BFF	5A 00 00 0c 43 5f 43 4d 44 5f 50 45 30 42 46 46 62 A5
Max length = # (# = 00~FF; 00 = 0, FF = 255)	C_CMD_PE0B	5A 00 00 0a 43 5f 43 4d 44 5f 50 45 30 42 64 A5
Send check digit	C_CMD_PEP1	5A 00 00 0a 43 5f 43 4d 44 5f 50 45 50 31 77 A5
Not send check digit	C_CMD_PEP0	5A 00 00 0a 43 5f 43 4d 44 5f 50 45 50 30 76 A5

## Febraban

Function	VCP Command	UART Command (Hex)
Enable ITF25 Febraban	C_CMD_FEI1	5A 00 00 0a 43 5f 43 4d 44 5f 46 45 49 31 78 A5
Disable ITF25 Febraban*	C_CMD_FEI0	5A 00 00 0a 43 5f 43 4d 44 5f 46 45 49 30 79 A5
Enable Code128 Febraban	C_CMD_FE81	5A 00 00 0a 43 5f 43 4d 44 5f 46 45 38 31 09 A5
Disable Code128 Febraban*	C_CMD_FE80	5A 00 00 0a 43 5f 43 4d 44 5f 46 45 38 30 08 A5
Enable verification	C_CMD_FEC1	5A 00 00 0a 43 5f 43 4d 44 5f 46 45 43 31 72 A5
Disable verification*	C_CMD_FEC0	5A 00 00 0a 43 5f 43 4d 44 5f 46 45 43 30 73 A5

## Composite

Function	VCP Command	UART Command (Hex)
Enable Composite	C_CMD_CPO1	5A 00 00 0a 43 5f 43 4d 44 5f 43 50 4f 31 6e A5
Disable Composite*	C_CMD_CPO0	5A 00 00 0a 43 5f 43 4d 44 5f 43 50 4f 30 6f A5

## PDF417

Function	VCP Command	UART Command (Hex)
Enable PDF417*	C_CMD_PDF1	5A 00 00 0a 43 5f 43 4d 44 5f 50 44 46 31 60 A5
Disable PDF417	C_CMD_PDF0	5A 00 00 0a 43 5f 43 4d 44 5f 50 44 46 30 61 A5

## Micro QR Code

Function	VCP Command	UART Command (Hex)
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Enable Micro QR Code	C_CMD_MQ01	5A 00 00 0a 43 5f 43 4d 44 5f 4d 51 30 31 1e A5
Disable Micro QR Code*	C_CMD_MQ00	5A 00 00 0a 43 5f 43 4d 44 5f 4d 51 30 30 1f A5

## QR Code

Function	VCP Command	UART Command (Hex)
Enable QR Code*	C_CMD_QR01	5A 00 00 0a 43 5f 43 4d 44 5f 51 52 30 31 01 A5
Disable QR Code	C_CMD_QR00	5A 00 00 0a 43 5f 43 4d 44 5f 51 52 30 30 00 A5

## Data Matrix

Function	VCP Command	UART Command (Hex)
Enable Data Matrix*	C_CMD_DM01	5A 00 00 0a 43 5f 43 4d 44 5f 44 4d 30 31 0b A5
Disable Data Matrix	C_CMD_DM00	5A 00 00 0a 43 5f 43 4d 44 5f 44 4d 30 30 0a A5

## MicroPDF417

Function	VCP Command	UART Command (Hex)
Enable MicroPDF417	C_CMD_MIP1	5A 00 00 0a 43 5f 43 4d 44 5f 4d 49 50 31 66 A5
Disable MicroPDF417*	C_CMD_MIP0	5A 00 00 0a 43 5f 43 4d 44 5f 4d 49 50 30 67 A5

## Aztec

Function	VCP Command	UART Command (Hex)
Enable Aztec*	C_CMD_AZ01	5A 00 00 0a 43 5f 43 4d 44 5f 41 5a 30 31 19 A5
Disable Aztec	C_CMD_AZ00	5A 00 00 0a 43 5f 43 4d 44 5f 41 5a 30 30 18 A5

## MaxiCode

Function	VCP Command	UART Command (Hex)
Enable MaxiCode	C_CMD_MAX1	5A 00 00 0a 43 5f 43 4d 44 5f 4d 41 58 31 66 A5
Disable MaxiCode*	C_CMD_MAX0	5A 00 00 0a 43 5f 43 4d 44 5f 4d 41 58 30 67 A5

## HanXin

Function	VCP Command	UART Command (Hex)
Enable HanXin	C_CMD_HAN1	5A 00 00 0a 43 5f 43 4d 44 5f 48 41 4e 31 75 A5
Disable HanXin*	C_CMD_HAN0	5A 00 00 0a 43 5f 43 4d 44 5f 48 41 4e 30 74 A5

## DotCode

Function	VCP Command	UART Command (Hex)
Enable DotCode	C_CMD_DOT1	5A 00 00 0a 43 5f 43 4d 44 5f 44 4f 54 31 6d A5
Disable DotCode*	C_CMD_DOT0	5A 00 00 0a 43 5f 43 4d 44 5f 44 4f 54 30 6c A5

## **Appendix**

### **Appendix 1 - Data 0~F**

Function	VCP Command	UART Command (Hex)
0	S_CMD_D000	5A 00 00 0a 53 5f 43 4d 44 5f 44 30 30 30 67 A5
1	S_CMD_D001	5A 00 00 0a 53 5f 43 4d 44 5f 44 30 30 31 66 A5
2	S_CMD_D002	5A 00 00 0a 53 5f 43 4d 44 5f 44 30 30 32 65 A5
3	S_CMD_D003	5A 00 00 0a 53 5f 43 4d 44 5f 44 30 30 33 64 A5
4	S_CMD_D004	5A 00 00 0a 53 5f 43 4d 44 5f 44 30 30 34 63 A5
5	S_CMD_D005	5A 00 00 0a 53 5f 43 4d 44 5f 44 30 30 35 62 A5
6	S_CMD_D006	5A 00 00 0a 53 5f 43 4d 44 5f 44 30 30 36 61 A5
7	S_CMD_D007	5A 00 00 0a 53 5f 43 4d 44 5f 44 30 30 37 60 A5
8	S_CMD_D008	5A 00 00 0a 53 5f 43 4d 44 5f 44 30 30 38 6f A5
9	S_CMD_D009	5A 00 00 0a 53 5f 43 4d 44 5f 44 30 30 39 6e A5
A	S_CMD_D00A	5A 00 00 0a 53 5f 43 4d 44 5f 44 30 30 41 16 A5
B	S_CMD_D00B	5A 00 00 0a 53 5f 43 4d 44 5f 44 30 30 42 15 A5
C	S_CMD_D00C	5A 00 00 0a 53 5f 43 4d 44 5f 44 30 30 43 14 A5
D	S_CMD_D00D	5A 00 00 0a 53 5f 43 4d 44 5f 44 30 30 44 13 A5
E	S_CMD_D00E	5A 00 00 0a 53 5f 43 4d 44 5f 44 30 30 45 12 A5
F	S_CMD_D00F	5A 00 00 0a 53 5f 43 4d



		44 5f 44 30 30 46 11 A5
Save configuration	S_CMD_DFFF	5A 00 00 0a 53 5f 43 4d 44 5f 44 46 46 46 11 A5
Abort 1 data	S_CMD_DF01	5A 00 00 0a 53 5f 43 4d 44 5f 44 46 30 31 10 A5
Abort all data	S_CMD_DF0F	5A 00 00 0a 53 5f 43 4d 44 5f 44 46 30 46 67 A5
Abort configuration	S_CMD_DF00	5A 00 00 0a 53 5f 43 4d 44 5f 44 46 30 30 11 A5

## Appendix 2 - Code ID

Symbology	Code ID
Code128	j
EAN-8	d
EAN-13	d
UPC-E0	c
UPC-E1	c
UPC-A	c
Interleaved 2/5	e
Matrix 2/5	v
Industrial 2/5	D
IATA 2/5	s
Code39	b
Codabar	a
Code93	i
PDF417	r
QR Code	Q
Data Matrix	u
Code 11	H
MSI Plessey	J
Micro QR Code	Q
Code32	b
ISBN	d
ISSN	d
Aztec	z
GS1-128	j
AIM 128	f
ISBT 128	F
GS1 DataBar	R
GS1 DataBar Limited	R
GS1 DataBar Expanded	R
Plessey	p
MaxiCode	x
HanXin	H
DotCode	d

Composite	m
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### Appendix 3 - ASCII Table

Hex	Dec	ASCII
00	0	NUL (Null char.)
01	1	SOH (Start of Header)
02	2	STX (Start of Text)
03	3	ETX (End of Text)
04	4	EOT (End of Transmission)
05	5	ENQ (Enquiry)
06	6	ACK (Acknowledgment)
07	7	BEL (Bell)
08	8	BS (Backspace)
09	9	HT (Horizontal Tab)
0a	10	LF (Line Feed)
0b	11	VT (Vertical Tab)
0c	12	FF (Form Feed)
0d	13	CR (Carriage Return)
0e	14	SO (Shift Out)
0f	15	SI (Shift In)
10	16	DLE (Data Link Escape)
11	17	DC1 (XON)(DeviceControl1)
12	18	DC2 (DeviceControl2)
13	19	DC3 (XOFF)(DeviceControl3)
14	20	DC4 (DeviceControl4)
15	21	NAK (Negative Acknowledgment)
16	22	SYN (Synchronous Idle)
17	23	ETB (End of Trans. Block)
18	24	CAN (Cancel)
19	25	EM (End of Medium)
1a	26	SUB (Substitute)
1b	27	ESC (Escape)
1c	28	FS (File Separator)
1d	29	GS (Group Separator)
1e	30	RS (Request to Send)
1f	31	US (Unit Separator)
20	32	SP (Space)

21	33	! (Exclamation Mark)
22	34	" (Double Quote)
23	35	# (Number Sign)
24	36	\$ (Dollar Sign)
25	37	% (Percent)
26	38	& (Ampersand)
27	39	` (Single Quote)
28	40	( (Right/Closing Parenthesis)
29	41	) (Right/Closing Parenthesis)
2a	42	* (Asterisk)
2b	43	+ (Plus)
2c	44	, (Comma)
2d	45	- (Minus/Dash)
2e	46	. (Dot)
2f	47	/ (Forward Slash)
30	48	0
31	49	1
32	50	2
33	51	3
34	52	4
35	53	5
36	54	6
37	55	7
38	56	8
39	57	9
3a	58	: (Colon)
3b	59	; (Semi-colon)
3c	60	< (Less Than)
3d	61	= (Equal Sign)
3e	62	> (Greater Than)
3f	63	? (Question Mark)
40	64	@ (AT Symbol)
41	65	A
42	66	B
43	67	C
44	68	D

45	69	E
46	70	F
47	71	G
48	72	H
49	73	I
4a	74	J
4b	75	K
4c	76	L
4d	77	M
4e	78	N
4f	79	O
50	80	P
51	81	Q
52	82	R
53	83	S
54	84	T
55	85	U
56	86	V
57	87	W
58	88	X
59	89	Y
5a	90	Z
5b	91	[ (Left/Opening Bracket)
5c	92	\ (Back Slash)
5d	93	] (Right/Closing Bracket)
5e	94	^ (Caret/Circumflex)
5f	95	_ (Underscore)
60	96	' (Grave Accent)
61	97	a
62	98	b
63	99	c
64	100	d
65	101	e
66	102	f
67	103	g
68	104	h

69	105	i
6a	106	j
6b	107	k
6c	108	l
6d	109	m
6e	110	n
6f	111	o
70	112	p
71	113	q
72	114	r
73	115	s
74	116	t
75	117	u
76	118	v
77	119	w
78	120	x
79	121	y
7a	122	z
7b	123	{ (Left/Opening Brace)
7c	124	(Vertical Bar)
7d	125	} (Right/Closing Brace)
7e	126	~ (Tilde)
7f	127	DEL(Delete)

## **Version History**

Rev	Date	Description	Issued
1.0	2022.09.15	Initial Release	Shaw

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