Caveatron Hardware Version Code Description

2018-04-11

Software Versions: 1.00 – Current

This is an 11 digit numeric code that defines the specific hardware components inside the Caveatron allowing for different hardware modules to be used with the same software. The table and list below describe what each digit of the code means and provides valid values for the Software versions listed above.

Character #	Value Range	Description
1	0-9	SD Card Data Storage
2	0-9	Display
3	0-9	Font/Graphics Storage
4	0-9	Laser Rangefinder
5	0-9	Compass
6	0-9	IMU/Gyro
7	0-9	Battery
8	0-9	Battery Gauge
9	0-9	Clock
10	0-9	Piezo Buzzer
11	0-9	Future Use

SD Card Data Storage
1 = SPI Mode SD Card on Arduino Due

Display
1 = Original Coldtears 3.5" 480x320 LCD (With original Font IC. No longer produced – legacy only)
2 = Updated Coldtears 3.5" 480x320 LCD (With new Font IC and using UTFT_GHL library)

Font/Graphic Storage
1 = UTFT_CTE font library
2 = UTFT_GHL font library

Laser Rangefinder
0 = Uni-T UT390B early version with verbose output
1 = Uni-T UT390B normal version
2 = JRT 100 m Laser distance module

Compass
1 = LSM303DLM or LSM303DLHC
2 = LSM303D

IMU/Gyro
0 = None

Battery
1 = 4400 mAh/5200 mAh 3.7V Li-Ion

Battery Gauge
1 = MAX17043 LiPo Fuel Gauge
2 = Sparkfun LiPo Battery Manager

Clock
1 = DS3231 RTC

Piezo Buzzer
1 = 1-3V directly driven Piezo Buzzer