Rotary Encoder Turn

IF Mode Set
- NO → Do Nothing
- YES → Right / Left Turn
  - LEFT → Add digit precision 1
    D1 = 1000
    D2 = 100
    D3 = 10
    D4 = 1
  - RIGHT → Sub digit precision 1
    D1 = -1000
    D2 = -100
    D3 = -10
    D4 = -1

Stop Button Push

IF Running
- YES → Mode Finished
- NO → **ELSE Mode Paused**
  - YES → Mode Set Digit 4

Rotary Encoder Button Push

IF Mode Set
- YES →
  - **IF Mode Set Digit 4** → Mode Set Digit 3
  - **IF Mode Set Digit 3** → Mode Set Digit 2
  - **IF Mode Set Digit 2** → Mode Set Digit 1
  - **ELSE Mode Set Digit 1** → Mode Set Digit 4
- NO → **IF Mode Running**
  - YES → Mode Paused
  - NO → **IF Mode Paused**
    - YES → Mode Running
    - NO → **ELSE Mode Finished**
      - YES → Mode Set Digit 4

Start Button Push

IF Mode Set
- YES → Mode Running
- NO → **IF Mode Running**
  - YES → Mode Paused
  - NO → **IF Mode Paused**
    - YES → (Mode Running)
    - NO → **ELSE Mode Finished**
      - YES → Mode Set Digit 4

D1 D2 D3 D4

UV Scanner Logic Flow