H H P   T e c h n i c a l   B u l l e t i n

Dolphin® 7200 2D
How to Improve Battery Performance

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Products Affected
Dolphin 7200 2D LX, LR, and HD.

Problem Statement
Dolphin 7200 2D LX, LR, and HD units are demonstrating shortened battery life.

Corrective Action
When writing an application for the Dolphin 7200 2D terminal, three programming methods should be applied to help extend the length of time that a battery charge will last.

1. The first programming method consists of powering down the image engine when you are not decoding or capturing an image.

    Example:
        Program start, communication to the engine is established
        WaPowerOn(FALSE);
                :
                :
        On/Scan button is pressed.
                waPowerOn(TRUE);
                    :
                    :
                (Routine to scan and get message or image from engine)
                    :
                    :
                waPowerOn(FALSE);

2. The second programming method for extending battery life consists of using the lpstop() function while the terminal is waiting for user input. Menus or waiting for the ON/SCAN button to be pressed are classic places to use this function. This one step will cause the Dolphin to use only one-third the amount of power it normally would while idling.

    Example:
                while((!onbhit()) && (!kbhit()))
                                        lpstop();

3. The last method of extending battery life consists of using the dsleep() function any time the unit is idle for an extended period of time. Use it like a screen saver, but it is really a power saver.

    This example takes advantage of the fact that lpstop() returns every 55mSec.
    We use 30/.055 to get 545 counts for a 30 second delay before going to dsleep().

    Example:

```
Int SleepCounter = 0;
while((!onbhit()) && (!kbhit()))
{
          lpstop();
          SleepCounter++;
          if( 545 < SleepCounter)
                  dsleep();
}
```

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