



**Figure 3-2 : The Waveform of RA8803/8822 and LCD Driver**

RA8803/8822 could support 4-Bit or 8-Bit LCD Driver. The pin SYS\_DW is for LCD driver data bus selection. Pull high when 8-bit LCD driver is used. Pull low when 4-bit LCD driver is used. Figure 3-1 is an example of 8-Bit Data bus Interface for LCD driver.

### 3-1 LCD Panel Size Setup

RA8803 support many different size LCD panel. The maximum is 320x240 dots Panel that means 20x 15 full size Chinese character(RA8803/8822 define a Chinese character is 16x16 dots and ASCII is 8x16). Due to the smaller display RAM size, the maximum LCD panel of RA8822 is 240x160 dots -- 15x 10 Chinese character. For different size panel, RA8803/8822 could change the setting of some registers like DWRR, DWBR, DWLR and DWTR to modify display window size. And use registers AWRR, AWBR, AWLR and AWTR to change the active window size.