

# Parallel port LCD/Keypad Panel support

Some LCDs allow you to define up to 8 characters, mapped to ASCII characters 0 to 7. The escape code to define a new character is '\e[LG' followed by one digit from 0 to 7, representing the character number, and up to 8 couples of hex digits terminated by a semi-colon(';'). Each couple of digits represents a line, with 1-bits for each illuminated pixel with LSB on the right. Lines are numbered from the top of the character to the bottom. On a 5x7 matrix, only the 5 lower bits of the 7 first bytes are used for each character. If the string is incomplete, only complete lines will be redefined. Here are some examples:

```
printf "\e[LG0010101050D1F0C04;" => 0 = [enter]
printf "\e[LG1040E1F00000000000;" => 1 = [up]
printf "\e[LG20000000001F0E0400;" => 2 = [down]
printf "\e[LG3040E1F001F0E0400;" => 3 = [up-down]
printf "\e[LG40002060E1E0E0602;" => 4 = [left]
printf "\e[LG500080C0E0F0E0C08;" => 5 = [right]
printf "\e[LG60016051516141400;" => 6 = "IP"

printf "\e[LG00103071F1F070301;" => big speaker
printf "\e[LG00002061E1E060200;" => small speaker
```

Willy