


Selecting CDs with a STARGATE LCD-96M Keypad

The LCD-96M Multi-Menu Keypad comes equipped with a variety of pre-configured menus for navigating the various sub-systems of a typical home (lighting, HVAC, security, voicemail, music, video, etc.). Pressing the music button () on the main menu (see Figure 1) brings you to the Audio Menu (menu #17) for selecting audio sources: CD, AM/FM, TAPE, AUX (see Figure 2). Pressing "CD" on the Audio Menu brings you to the CD Menu (menu #18) which includes control buttons for play, stop, pause, track up & down, mute, volume up & down and select (see Figure 3). Pressing SELECT on the CD Menu brings you to a set of letter group menus (#19 and #20) labeled alphabetically (A-N and O-Z respectively) for selecting CDs (see Figures 4 and 5). Pressing a letter button brings you to a corresponding menu for the letter pressed (see Figure 6). There are 26 pre-assigned "letter" menus (#22 - #47), one for each letter, allowing CDs to be listed alphabetically by name or artist. Additional letter menus can be added as necessary if you need to list more CDs under a particular letter. The bottom left button of each letter menu returns you to the CD menu so you can control the volume, change tracks, etc. The bottom right button advances to the next letter menu to allow scrolling through the entire list alphabetically. The O-Z menu also contains a "Playlists" button which brings you to a pre-labeled menu for selecting play "groups" that are programmed into your CD changer's memory. These are typically organized by music style, hence the menu displays "Jazz," "Rock," "Classical," etc (see Figure 7). All these menus can be edited to accommodate your own personal preference and lifestyle.

Adding the event shown below to your schedule will send the necessary sequence of IR commands to the CD player to select the disk corresponding to the button pressed on the keypad. To accomplish this, first you define a variable called "CD Select" under the Define - Variable section of WinEVM. Then the LCD keypad letter menu buttons are individually labeled with a CD title or artist's name (under Define - LCD Keypad) and programmed to load the "CD Select" variable with a value equal to the CD's slot number in the multidisk changer.

For example, lets say the Beatles CD is located in disk slot #26 of a 200 disk changer. Under Define - LCD Keypad, you select the "B" menu (#23). Then drag and drop "Then Action" from the right column to the desired position on the virtual menu screen. Under "Display Attributes" type "Beatles." Under "Button Action," select "Right button same as left button," then click "New" then "Variable" then select the "CD Select" variable and set the value to 26, then click OK.

Once one CD has been programmed, you can simply copy and paste it to all the remaining positions on the menu, then double click each one to change the names and variable values for the other CD selections. Then click "Download Menu" to load it into the keypad.

When a button is pressed, the CD Select variable changes to the programmed value. This triggers a series of nested if-then actions that issue an IR command (via the IR-Xpander) for each number in the variable. For example, pressing the "Beatles" button would load the CD Select variable with 26. This triggers the event to issue the IR command "2" followed by "6" to select disk number 26.

Note: Some CD changers require pressing a "Disk" button prior to selecting a disk and an "Enter" button to complete the selection. The event shown includes these commands in the first nest. A simple schedule containing this event can be downloaded from www.jdstechologies.com/download/stargate/cdselect.sch then copied and pasted to your schedule.

```
EVENT: CD Select
```

```
If
```

```
(V:CD Select) Changes Value
```

```
Then
```

```
  If
```

```
    (V:CD Select) > 0
```

```
    Then
```

```
      (IR:DISC ) play 1 time(s) [Emitter1]
```

```
      LCD: Goto Menu Screen = Menu 18 [KP:# 1]
```

```
      DELAY 0:00:00
```

```
      (IR:CD ENTER ) play 1 time(s) [Emitter1]
```

```
    Nest End
```

```
  If
```

```
    (V:CD Select) >= 110
```

```
    Then
```

```
      (IR:CD 1 ) play 1 time(s) [Emitter1]
```

```
      (V:CD Select) = (V:CD Select) - 100
```

```
    Nest End
```

```
  If
```

```
    (V:CD Select) >= 100
```

```
    and (V:CD Select) < 110
```

```
    Then
```

```
      (IR:CD 1 ) play 1 time(s) [Emitter1]
```

```
      (IR:CD 0 ) play 1 time(s) [Emitter1]
```

```
      (V:CD Select) = (V:CD Select) - 100
```

```
    Nest End
```

```
  If
```

```
    (V:CD Select) < 100
```

```
  Then
```

```
    If
```

```
      (V:CD Select) >= 10
```

```
      and (V:CD Select) < 20
```

```
    Then
```

```
      (IR:CD 1 ) play 1 time(s) [Emitter1]
```

```
      (V:CD Select) = (V:CD Select) - 10
```

```
    Nest End
```

```
  If
```

```
    (V:CD Select) >= 20
```

```
    and (V:CD Select) < 30
```

```
  Then
```

```
    (IR:CD 2 ) play 1 time(s) [Emitter1]
```

```
    (V:CD Select) = (V:CD Select) - 20
```

```
  Nest End
```

```
  If
```

```
    (V:CD Select) >= 30
```

```
    and (V:CD Select) < 40
```

```
  Then
```

```
    (IR:CD 3 ) play 1 time(s) [Emitter1]
```

```
    (V:CD Select) = (V:CD Select) - 30
```

```
  Nest End
```

```

If
  (V:CD Select) >= 40
  and (V:CD Select) < 50
Then
  (IR:CD 4 ) play 1 time(s) [Emitter1]
  (V:CD Select) = (V:CD Select) - 40
Nest End

If
  (V:CD Select) >= 50
  and (V:CD Select) < 60
Then
  (IR:CD 5 ) play 1 time(s) [Emitter1]
  (V:CD Select) = (V:CD Select) - 50
Nest End

If
  (V:CD Select) >= 60
  and (V:CD Select) < 70
Then
  (IR:CD 6 ) play 1 time(s) [Emitter1]
  (V:CD Select) = (V:CD Select) - 60
Nest End

If
  (V:CD Select) >= 70
  and (V:CD Select) < 80
Then
  (IR:CD 7 ) play 1 time(s) [Emitter1]
  (V:CD Select) = (V:CD Select) - 70
Nest End

If
  (V:CD Select) >= 80
  and (V:CD Select) < 90
Then
  (IR:CD 8 ) play 1 time(s) [Emitter1]
  (V:CD Select) = (V:CD Select) - 80
Nest End

If
  (V:CD Select) >= 90
  and (V:CD Select) < 100
Then
  (IR:CD 9 ) play 1 time(s) [Emitter1]
  (V:CD Select) = (V:CD Select) - 90
Nest End

If
  (V:CD Select) = 0
Then
  (IR:CD 0 ) play 1 time(s) [Emitter1]
Nest End

If
  (V:CD Select) = 1
Then
  (IR:CD 1 ) play 1 time(s) [Emitter1]
Nest End

```

```

If
  (V:CD Select) = 2
Then
  (IR:CD 2 ) play 1 time(s) [Emitter1]
Nest End

If
  (V:CD Select) = 3
Then
  (IR:CD 3 ) play 1 time(s) [Emitter1]
Nest End

If
  (V:CD Select) = 4
Then
  (IR:CD 4 ) play 1 time(s) [Emitter1]
Nest End

If
  (V:CD Select) = 5
Then
  (IR:CD 5 ) play 1 time(s) [Emitter1]
Nest End

If
  (V:CD Select) = 6
Then
  (IR:CD 6 ) play 1 time(s) [Emitter1]
Nest End

If
  (V:CD Select) = 7
Then
  (IR:CD 7 ) play 1 time(s) [Emitter1]
Nest End

If
  (V:CD Select) = 8
Then
  (IR:CD 8 ) play 1 time(s) [Emitter1]
Nest End

If
  (V:CD Select) = 9
Then
  (IR:CD 9 ) play 1 time(s) [Emitter1]
Nest End
End

```

Figure 1

12:00AM
 ((💡))
 The most
 IN 70 OUT 56
 🔑
 📞
 🎵
 📺
 + 🎵

STAR GATE

Figure 2

🎵
 CD
 AM/FM
 TAPE
 AUX
 MUTE
 VOL
 + 🎵

STAR GATE

Figure 3

CD
 Select
 ▶
 || ■
 - Track +
 MUTE
 VOL
 + - 🎵

STAR GATE

Figure 4

A	H
B	I
C	J
D	K
E	L
F	M
G	N

+ - 🎵

STAR GATE

Figure 5

O	U
P	V
Q	W
R	X
S	Y
T	Z

Playlists
 + - 🎵

STAR GATE

Figure 6

B
 B.B. King
 BeachBoys
 Beatles
 Beck
 Beethoven
 Benton
 + - 🎵

STAR GATE

Figure 7

Jazz
 Rock
 Classical
 Fusion
 Pop
 Party
 Background
 + - 🎵

STAR GATE