



# 4K Certification Test Report

Crestron DigitalMedia™ Lab



Report #: 6 Date Test Completed: 07/18/2014  
 Manufacturer: Sharp Inputs Tested: 1  
 Model: LC-70UD1U Native Resolution: 3840X2160  
 Aspect Ratio: 1.77(16:9)

**EDID structure verification** (HDMI® CTS 8-1 through 8-2) . . . Pass **Video protocol compliant** (HDMI CTS 8-17 through 8-20) . . . Pass  
**TMDS signal integrity** (HDMI CTS 8-5 through 8-7) . . . . . Pass **4K protocol compliant** (HDMI CTS 8-30) . . . . . Pass

## EDID Report Support as declared by tested device via EDID

### DM® Compatible Resolutions

- |  |  |  |  |  |
|--|--|--|--|--|
| <input checked="" type="checkbox"/> 640x480@60Hz           | <input type="checkbox"/> 1280x960@60Hz                       | <input type="checkbox"/> 1920x1080@25Hz (1080p25)            | <input checked="" type="checkbox"/> 3840x2160@24Hz | <input checked="" type="checkbox"/> Other: |
| <input checked="" type="checkbox"/> 720x480@60Hz (480p)    | <input checked="" type="checkbox"/> 1280x1024@60Hz           | <input type="checkbox"/> 1920x1080@25Hz (1080i25)            | <input checked="" type="checkbox"/> 3840x2160@25Hz | 1920x1080p@30Hz                            |
| <input type="checkbox"/> 720x576@50Hz (576p)               | <input type="checkbox"/> 1366x768@60Hz                       | <input checked="" type="checkbox"/> 1920x1080@30Hz (1080i30) | <input checked="" type="checkbox"/> 3840x2160@30Hz | 720x480i@30Hz                              |
| <input checked="" type="checkbox"/> 800x600@60Hz           | <input type="checkbox"/> 1400x1050@60Hz                      | <input type="checkbox"/> 1920x1080@50Hz (1080p50)            | <input type="checkbox"/> 3840x2160@50Hz            |  |
| <input checked="" type="checkbox"/> 1024x768@60Hz          | <input type="checkbox"/> 1440x900@60Hz                       | <input checked="" type="checkbox"/> 1920x1080@60Hz (1080p60) | <input type="checkbox"/> 3840x2160@60Hz            |  |
| <input type="checkbox"/> 1280x720@50Hz (720p50)            | <input type="checkbox"/> 1600x900@60Hz                       | <input type="checkbox"/> 1920x1200@60Hz                      | <input type="checkbox"/> 4096x2160@24Hz            |  |
| <input checked="" type="checkbox"/> 1280x720@60Hz (720p60) | <input checked="" type="checkbox"/> 1600x1200@60Hz           | <input type="checkbox"/> 2048x1080@60Hz                      | <input type="checkbox"/> 4096x2160@50Hz            |  |
| <input type="checkbox"/> 1280x768@60Hz                     | <input type="checkbox"/> 1680x1050@60Hz                      | <input type="checkbox"/> 2560x1440@60Hz                      | <input type="checkbox"/> 4096x2160@60Hz            |  |
| <input type="checkbox"/> 1280x800@60Hz                     | <input checked="" type="checkbox"/> 1920x1080@24Hz (1080p24) | <input type="checkbox"/> 2560x1600@60Hz                      |  |  |

**Preferred Timing:** 1920x1080@60Hz (1080p60) **Color Space:** YCbCr/RGB **3D:** Yes

### Audio Formats

- |  |  |   |                                 |  |   |                                 |
|--|--|---|---------------------------------|--|---|---------------------------------|
| <input type="checkbox"/> No Audio Support      | <input checked="" type="checkbox"/> Dolby Digital® | <input type="checkbox"/> Dolby Digital Plus | <input type="checkbox"/> DTS®   | <input type="checkbox"/> DTS 96/24       | <input type="checkbox"/> DTS-HD Master Audio™ | <input type="checkbox"/> Other: |
| <input checked="" type="checkbox"/> Stereo PCM | <input type="checkbox"/> Dolby Digital EX          | <input type="checkbox"/> Dolby® TrueHD      | <input type="checkbox"/> DTS-ES | <input type="checkbox"/> DTS-HD High Res | <input type="checkbox"/> Up to 8ch PCM        |                                 |

## CEC Report

**Power on** (remote control passthru): Not Supported **Power off** (remote control passthru): Not Supported **Power toggle:** Not Supported  
**Power on** (image view on): Supported **Power off** (system standby): Not Supported

Note: This command turns the display on (if off) and selects the HDMI input from which it received the command (if not already selected.)

## Signal Lock Performance

**Time to lock on new signal** (worst case, in seconds): 13

**Signal lock performance notes:** Audio double and triple locks can be observed when switching to/from many combinations of resolutions. Happens regularly when when switching 4K and 3D resolutions.

## Other Notes

Switching lock time is unusually long for this display when switching to/ from 4K or 3D resolutions. Lock times in excess of 8 seconds are observed for 4K resolutions and up to 13 seconds have been observed for 3D resolutions.

See how we conduct our 4K certification testing at [www.crestron.com/4K](http://www.crestron.com/4K)

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