



**HIGHNESS™**

*One of a kind*

**MHSD-5540V**

55"4K Surgical Display With  
Software Defined Video over Ethernet



Rev.00

Release Date

17<sup>th</sup> Feb 2026

---

THIS DOCUMENT CONTAINS PROPRIETARY INFORMATION WHICH IS SOLELY OWNED BY 'HIGHNESS MICROELECTRONICS LTD'. ANY UNAUTHORISED COPY OR PRINTING OR PUBLISHING OF INFORMATION IN THIS DOCUMENT IN PART OR IN COMPLETE IS RESTRICTED.

---

**HIGHNESS MICROELECTRONICS LTD.**

Email: [sales@highnessmicro.com](mailto:sales@highnessmicro.com), URL: [www.highnessmicro.com](http://www.highnessmicro.com)

# 1. Technical Specification

|  |  |
|--|--|
| Screen Technology                            | TFT AM LCD                                   |
| Active Screen Size (Diagonal)                | 55"  |
| Active Screen Size (H x V)                   | 1209.6 x 680.4 mm                            |
| Aspect Ratio                                 | 16:9   |
| Resolution                                   | 3840 x 2160                                  |
| Pixel Pitch                                  | 0.315 x 0.315 mm                             |
| Viewing Angle (H, V)                         | 178°, 178°                                   |
| Maximum Luminance                            | 700 cd/m <sup>2</sup>                        |
| Contrast Ratio                               | 1200:1                                       |
| Color  | 1.07 billion                                 |
| Response Time (Tr + Tf)                      | 10 ms  |
| Video Inputs Signals                         | 2x HDMI, 2x DP                               |
| Video Output Signal                          | HDMI   |
| PIP Function                                 | PIP/ PBP (L/R, Top/Bottom)/ 4P(4Windows)     |
| Software Defined Video over Ethernet (SDVoE) | 1x SFP+ (10G Fiber) Uncompressed 4K/8K video |
|  | 1x Ethernet (1G Copper)                      |
| Power Requirements                           | DC 24V (6.67A)                               |
| Power Consumption                            | 160W   |
| Operating Temperature                        | 0 to +50°C                                   |
| Storage Temperature                          | -20 to +60°C                                 |
| Relative Humidity                            | 10% to 90% (non-Condensing)                  |
| Other Feature                                | Round Corners for Ergonomics Design          |
| Surface Treatment                            | Toughened Ultra Clear Glass 3.5mm            |
|  | AR & Antimicrobial Coated                    |
|  | IP56 Front                                   |
| Backlight Life                               | 30,000 hours                                 |
| Housing Color                                | White  |
| Housing Material                             | Metal  |
| Weight                                       | TBA  |
| Mounting Standard                            | Wall Mount                                   |

## 2. Mechanical Drawing

{TBA}

---

*(Manufacturer reserves the sole right to change the specifications without prior notice)*  
*(Toughened Glass will reduce the original luminance of the LCD display)*