

# Technical Parameters of GEM-GB10 Glass LED Display

## 1、Die parameters:

| No. | Name                     | Main wavelength(nm) | Brightness                                                                          |
|-----|--------------------------|---------------------|-------------------------------------------------------------------------------------|
| 1   | Red tube                 | 620-625nm           | 120-150mcd                                                                          |
| 2   | Green tube               | 527-529nm           | 420-460 mcd                                                                         |
| 3   | Blue tube                | 470-474nm           | 70-90 mcd                                                                           |
| 4   | Packing mode             | SMD2121             |  |
| 5   | Horizontal viewing angle | 145°                |                                                                                     |
| 6   | Vertical viewing angle   | 145°                |                                                                                     |

## 2、Unit module parameters

| No. | Name                                       | parameters                 |
|-----|--------------------------------------------|----------------------------|
| 1   | Pixel spacing(mm)                          | 10                         |
| 2   | Manufacturer' s dimension standard WxH(mm) | 1000×250mm                 |
| 3   | Module resolution                          | 100 × 25 = 2500dot         |
| 4   | PCB Materials                              | Glass                      |
| 5   | Project                                    | Glass+Mini LED Integration |

## 3、Full color screen display design

| No. | Project              | Specifications          |
|-----|----------------------|-------------------------|
| 1   | Pixel spacing        | 10mm                    |
| 2   | Pixel composition    | Mini LED SMD2121        |
| 3   | Pixel density        | 10000dot/m <sup>2</sup> |
| 4   | Permeability(approx) | 88%                     |
| 5   | Module size WxH(mm)  | 1000×250mm              |
| 6   | Module resolution    | 100×25dot               |
| 7   | Clear size WxH(mm)   | 2000×1000mm             |
| 8   | Product size WxH(mm) | 2200×1005mm             |
| 9   | Standard resolution  | 200×100dot              |
| 10  | Net weight           | ≈40kg/m <sup>2</sup>    |

|    |                                                 |                                                                                                                                                                                                                                                                |
|----|-------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 11 | Brightness level<br>approx (CD/m <sup>2</sup> ) | 1000-5000 cd/m <sup>2</sup>                                                                                                                                                                                                                                    |
| 12 | Viewing angle                                   | 145° /145°                                                                                                                                                                                                                                                     |
| 13 | Viewing distance (m)                            | 10m                                                                                                                                                                                                                                                            |
| 14 | Gray level                                      | 8-16bit                                                                                                                                                                                                                                                        |
| 15 | Maximum power                                   | 800W/m <sup>2</sup>                                                                                                                                                                                                                                            |
| 16 | Average power                                   | 180W/m <sup>2</sup>                                                                                                                                                                                                                                            |
| 17 | Refresh rate                                    | 1920Hz/2880Hz/3840Hz                                                                                                                                                                                                                                           |
| 18 | Degree of protection                            | INDOOR—IP30                                                                                                                                                                                                                                                    |
| 19 | Control mode                                    | Special system for glass display<br>(4G+5G\APP\WIFI\LAN control)                                                                                                                                                                                               |
| 20 | Supporting signal input<br>type                 | Composite, S-Video, Component, VGA, DVI, HDMI, HD_S<br>DI, USB                                                                                                                                                                                                 |
| 21 | Input power                                     | AC100~240V, 50/60Hz                                                                                                                                                                                                                                            |
| 22 | Temperature                                     | 0°C~40°C (work), - 20°C~+60°C (store)                                                                                                                                                                                                                          |
| 23 | Humidity                                        | 10%-90%RH                                                                                                                                                                                                                                                      |
| 24 | Theoretical life                                | >50,000 h                                                                                                                                                                                                                                                      |
| 25 | Product show                                    |    |

Note: The parameters indicators may vary depending on the specific situation of the project (the product shall be subject to the submitted contract specifications)