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Product Specification

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**National Qianglil** 

Product: Indoor Full Color P1.2 1/32 Scan Module

Item No.: Q1.2-32S-1010

Version: 2.7

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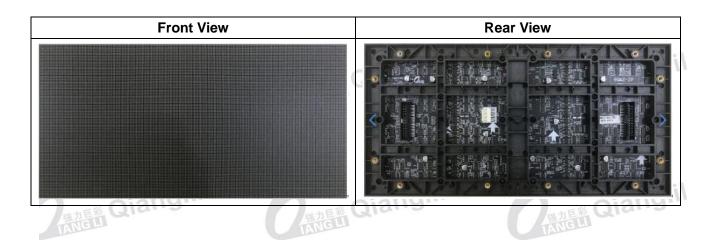
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#### 1. Module Picture



TANG LI

#### 2. Suggestion Cabinet -(640\*480 MGLED)



No. 8065, Building E6, West Xiang'an Road, Xiang'an Torch High-Tech Industrial Zone, Xiamen, China 361100

E-mail: sales@qiangliled.com Website: <a href="www.qiangliled.com">www.qiangliled.com</a>



## 3. Technical Specification

| ®               | Pixel Pitch                           | 1.250 mm                         | Pixel Density   | 640 000Dots/m²                      |  |
|-----------------|---------------------------------------|----------------------------------|---|-------------------------------------|--|
| 777年聚           | Configuration                         | 1R1G1B                           | LED Lamp  | SMD 1010 (1210)                     |  |
| TANGL           | Size<br>(Width*Height*Depth)          | 320*160*14.5mm                   | Weight  | 0.52kg±0.01kg                       |  |
|                 | Structure                             | Lamp & IC in same PCB            | Resolution  | 256*128=32768Dots                   |  |
| Module          | Input Voltage (DC)                    | 4.5±0.1V                         | Maximum Current                                       | ≤6.6 A ⊚                            |  |
| 强力巨彩<br>IANG LI | Power<br>Consumption                  | ≤30 W Qia                        | Driving Method  | Constant Current<br>1/32 Scan       |  |
|                 | 40A Power Supply for                  | 3-4 pcs module                   | 80A Power Supply for                                  | 8 pcs module                        |  |
| ®               | 40A PFC Power Supply for              | 4-5 pcs module                   | Module weight   | $0.50 \text{kg} \pm 0.01 \text{kg}$ |  |
| 强力巨彩<br>(ANGLI  | Cabinet Size (Width*Height*Thickness) |                                  | 640*480*85mm (with module, cabinet, connecting plate) |                                     |  |
|                 | Cabinet Pixel Density                 |                                  | 512*384=196 608 Dots                                  |                                     |  |
| Cabinat         | Cabinet Area                          |                                  | 0.307 m²  |                                     |  |
| Cabinet (MGLED) | Cabinet Weight ®                      |                                  | 8.32kg ±0.05 kg                                       | 8                                   |  |
| 2 異語            | Cabinet Max Power Consumption         |                                  | ≤178W   | Qiang"                              |  |
| ANG             | Average Power Cons                    | umption (1/3 Max)                | ≤59W  | 13.00                               |  |
|                 | Distribution Power (Pow               | ver Supply Capacity 78%)         | ≤288W   |                                     |  |
| ®               | Brightness                            | ≥600cd/m²                        | Brightness Uniformity                                 | >0.95                               |  |
| 選加巨彩<br>ANGI    | Horizontal Viewing Angle              | 160 ±10 degree                   | Vertical Viewing<br>Angle                             | 160 ±10 degree                      |  |
|                 | Best Viewing Distance                 | ≥1.3 m                           | Black Spot Ratio                                      | < 0.0003                            |  |
| Screen          | Max Power Consumption                 | ≤580 W/m²                        | Operation<br>Environment                              | Indoor                              |  |
|                 | Grayscale                             | 14-16bits (RGB each)             | Display Color   | 4398 Billion                        |  |
| TANGL           | Frame Frequency                       | ≥60 frame/sec                    | Refresh Frequency                                     | ≥3840 Hz                            |  |
|                 | Control Mode                          | Computer control, Point-to-point | Brightness<br>Adjustment                              | 256-grade manual / automatic        |  |
| 8               | Life Span                             | ≥100,000 hours                   | Average Failure Free Time                             | ≥10,000 hours                       |  |



| TANGLI | Attenuation     | ANGLI ANGLI | Operating Humidity | 100/ GE0/DU |
|--------|-----------------|-------------|--------------------|-------------|
|        | (3 years later) | ≤15%        | Operating Humidity | 10%-65%RH   |

#### 3. Signal Pin

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| TAIL | TANGE |   |    |  |  |
|------|-------|---|----|--|--|
| 1    | •     | • | 2  |  |  |
| 3    | •     | • | 4  |  |  |
| 5    | •     | • | 6  |  |  |
| 7    | •     | • | 8  |  |  |
| 9    | •     | • | 10 |  |  |
| 11   | •     | • | 12 |  |  |
| 13   | •     | • | 14 |  |  |
| 15   | •     | • | 16 |  |  |
| 17   | •     | • | 18 |  |  |
| 19   | •     | • | 20 |  |  |
| 21   | •     | • | 22 |  |  |
| 23   | •     | • | 24 |  |  |
| 25   | •     | • | 26 |  |  |

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|-----|--------|---------------------------|-------------------------|-----------|---------------------------|
| Pin | Signal | Function                  | Pin                     | Signal    | Function                  |
| 1   | R1     | Red data signal           | 2                       | G1        | Green data signal         |
| 3   | B1     | Blue data signal          | 4                       | GND       | GND                       |
| 5   | R2     | Red data signal           | 6                       | G2        | Green data signal         |
| 64  | B2     | Blue data signal          | 8                       | GND       | GND                       |
| 9   | R3     | Red data signal           | 10                      | G3        | Green data signal         |
| 11  | В3     | Blue data signal          | Blue data signal 12 GNI |           | GND                       |
| 13  | R4     | Red data signal 1         |                         | G4        | Green data signal         |
| 15  | B4     | Blue data signal          | 16                      | GND       | GND                       |
| e17 | A      | Line power control signal | 18                      | B         | Line power control signal |
| 19  | C      | Line power control signal | 20                      | TANG<br>D | Line power control signal |
| 21  | Е      | Line power control signal | 22                      | GND       | GND                       |
| 23  | CLK    | Clock signal              | 24                      | LAT       | Data locking signal       |
| 25  | OE     | Enable signal             |                         | GND       | GND                       |

### 4.Precautions Apple Qiangliled

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| 4.Precaut  | tions<br>angliled          | Qiangliled Qiangli   |
|--|----------------------------|--|
| TANGE Ite  | m                          | Description Tanger   |
| The second secon | Temperature<br>requirement | Storage temperature range: -10 ° C - 30 ° C, over 30 ° C needs to do cooling treatment.  Operating temperature range: -20 ° C -40 ° C, other temperature range, need to install temperature control equipment.  Lamp surface temperature (working time):  ≤60°C, temperature control equipment is required to be installed when temperature exceeding the standard |
|  | Humidity<br>requirement    | Storage humidity range: 10% RH-60% RH, humidity over 60% RH requires dehumidification treatment.  Operating humidity range: 10% RH-65% RH, If the  |



| - SR /-   |                       |  |
|---|-----------------------|--|
| TANGL   |                       | humidity exceeds the standard, it must be dehumidified before it can be used normally.                             |
|   |                       | If the product has been stored for more than one month,  |
|   |                       | need to do 6 hours of aging test before it can be used. The  |
| ®   | Storage               | aging mode is: 10%Full brightness setting-1H, 30%Full  |
| 了。<br>是打巨彩 Qi   | overdue .             | brightness setting-1H, 60%Full brightness setting-2H,  |
| TANG LI   | processing            | 80%Full brightness setting-1H, 100%Full brightness   |
|   |                       |  |
|   |                       | setting-1H (increase brightness gradually in aging test) Indoor products have no protection level or IP30, and the |
|   |                       | display should not be exposed to heavy dusty   |
| ®   | Dust-proof            | environments, such as decoration and renovation. Special   |
| 。<br>强力巨彩 Q   | requirements          | protection is required to protect the display. Installing LED  |
| TÂNG LI   |                       | display screen during decoration is strictly prohibited.   |
|   | Avoidina              | Corrosive gas contains salt or acid gas in the environment,  |
|   | Avoiding              | may cause corrosion of electronic components,  |
| (8)   | corrosive gas         | crystallization, leakage and so on.  |
| 5   | Avoiding              | The display screen should not be installed in an   |
| 强力E彩 Q  | electromagne          | environment where electromagnetic radiation and radio  |
| TANG  | tic radiation         | frequency radiation exceed the field strength of 5V/m  |
|   |                       | interference source.   |
|   | Avoid strong          | Strong light will affect the display effect and life span of   |
| ®   | light                 | screen. It should be install in the direction where there is   |
| 5   | angliled              | shorter direct sun shining.  Indoor products have low level of protection, water can                               |
| 強力巨形は   | Keep away             | make the module short circuit, and leads to circuit device   |
| Tall  | from water            | damage, so it is necessary to keep away from the water   |
|   |                       | source.  |
|   | <b>-</b>              | The metal components of the screen, the shell of power   |
| ®   | Electrostatic         | supply and the cabinet should be grounded well, and the  |
| D LEW OI  | hazard, eQ<br>Prevent | grounding resistance should be less than $10\Omega$ . Prevent  |
| TANGLI  | lightning             | electrostatic damage to electronic devices in humid  |
|   | strikes               | environment, while avoiding electric leakage to harm   |
|   |                       | human body.  |
|   |                       | The angle and height of the display installation should be   |
| ®   | Personal              | appropriate, and the sharp corners should be packaged to   |
| 了。<br>理力巨彩 Qi   | injury                | prevent damage to the human body from the tough outer  |
| TANGL   |                       | Display screen for special environment (1, seeside   |
|   |                       | Display screen for special environment (1, seaside, swimming pool, bathing room, basement, tunnel; 2,              |
|   | Special               | chemical environment, vulcanization environment,   |
|   | environment           | halogen environment; 3, dust, dusty environment; 4,  |
| strong ultraviolet environment; 5, the environment of |                       |  |
| 通力巨彩 Q  | alia                  | strong electromagnetic fields; 6, less than -20 degrees,   |
|   |                       | ang'an Road, Viang'an Torch High Toch Industrial Zone, Viamon, China 264100  |

No. 8065, Building E6, West Xiang'an Road, Xiang'an Torch High-Tech Industrial Zone, Xiamen, China 361100



| THE                          |  | higher than +40 degrees of the environment),The review  |
|------------------------------|--|---|
| Tant                         |  | process is required before placing the order.   |
| ®<br>Date和Qi                 | Electro-static<br>Protection<br>Product batch<br>control     | The worker must wear an anti-electrostatic wrist strap and anti- electrostatic glove. Various tools must be strictly grounded during assembly  Different batches of products cannot be installed in the same screen, otherwise there will be color blocks (mosaic) on the display.  |
| ®                            | Product wiring   | The module cannot be directly connected to 220V, and the module positive and negative poles connection must be right.   |
| Dane Qi<br>IANGII Qi         | Disassembly and transportation                               | Do not throw, push, squeeze or press the module to avoid damaging the display screen.   |
| う<br><sub>温力</sub><br>の<br>i | Disassembly and maintenance liquid protection                | Sweat or other liquid cannot be dripped on the display screen during disassembly and assembly operation. If it is dripped, then use alcohol to clean the product, to prevent the liquid from corroding the product.   |
| Operational precautions      | Installation<br>Torque<br>Control                            | In connection with power supply, it is necessary to ensure tightening of terminal joint screw to prevent joint position from loosening, resulting in wire burning or product damage caused by high contact resistance. Torque of M4 screw is 6.0-8.0 Kgf.cm, and that of M3 screw is 4.0-6.0 Kgf.cm.  |
| ANGII Qi                     | Prohibited work with electricity                             | It is forbidden to assemble the LED module when the power is on. The LED module should be assembled with the main power input disconnected. It is not allowed to insert the power wire and signal cable when there are with electricity.  |
| B<br>ANGU Qi                 | Prohibited touch with electricity  Environmenta I inspection | It is forbidden for people to touch the LED display screen when the LED screen is in usage, so as to avoid electrostatic breakdown of LED lights and chips and other components caused by human body friction.  Temperature and humidity meters should be equipped on the installation site to monitor the surrounding environment of the screen in time. After heavy rain, it is necessary to check whether there are any problems such as dampness, water droplets and over humidity in the screen in time. |
| 了<br>强力是影 Qi                 | Requirement  | Fixed Within 10% ~ 65% RH relative humidity   |



| TANIE                | s for moisture | Installation 1 | range, it is recommended to turn on the        |
|----------------------|----------------|----------------|--|
| Palk                 | proof          | Display        | display 1 time per day, and work at least 4    |
|                      | proor          | Screen         | hours to remove moisture on the display.       |
|                      |                | 0010011        | When the relative humidity of the              |
| (R)                  |                | 0              | environment is over 65% RH,                    |
| 5                    | angliled       | 65             | dehumidification treatment should be carried   |
| 選加斯 Q                | aris           | 强力巨            | out for the operating environment. It is       |
| TANGE                |                | TANG           | suggested to use the screen for more than      |
|                      |                |                | 8H per day in this environment, and doors      |
|                      |                |                | and windows should be closed at night to       |
|                      |                |                | prevent the display from dampness.             |
| (8)                  | angliled       | (8)            | When the display screen is not used for a      |
| ) <sub>竭力巨彩</sub> Qi | ang            | 强力巨型           | long time, it is necessary to preheat and      |
| TANGLI               |                | TÄNG           | dehumidify the whole screen for 8H before      |
|                      |                |                | using, so as to avoid damaging the lamp        |
|                      |                |                | tube after dampness. The dehumidification      |
| -                    |                |                | methods are: full brightness set 10%- 1H,      |
| ®                    | angliled       | ®              | full brightness set 30% 2H, full brightness    |
| 了 <sub>是力巨彩</sub> Qi | ang            | 22. 九巨羽        | set 60% -2H, full brightness set 80% -2H, full |
| TANGLI               |                | TANG           | brightness set 100% -1H (brightness            |
|                      |                |                | gradually increasing aging).                   |
|                      |                |                | After usage , immediately put into flight case |
|                      |                |                | and seal the flight case;                      |
| (8)                  | angliled       | 8              | In each flight case, please put a desiccant or |
| Dane Qi              | angiii         | 22 力巨为         | hygroscopic bag of not less than 50g.          |
| TANG LI              |                | TANGI          | In the range of 10% to 65% RH relative         |
|                      |                |                | humidity, the screen should be lighted on      |
|                      |                |                | more than 2H every half month; More than       |
|                      |                |                | 65% RH and in the resurgence weather, the      |
| (8)                  | angliled       | 8              | screen must be lighted on more than 2H         |
| Date Qi              | angiii         | Rental         | every week. After finished the display, need   |
| TANGLI               |                | screen         | to put it back to flight case, sealed and      |
|                      |                | display:       | stored. (please check whether there is any     |
|                      |                | diopiay.       | failure of the desiccant or hygroscopic bag in |
|                      | iangliled      |                | the aviation, it needs to be replaced every 2  |
| ®                    |                | 8              | months, and more desiccant can increase        |
| Parte Q              |                | 加州巨洲           | the dryness inside the box.)                   |
| ANGLI                |                | TANGI          | When the display screen is not in use for a    |
|                      |                |                | long time, it is necessary to reduce the       |
|                      |                |                | brightness of the whole screen by 50% in       |
|                      |                |                | advance and play it for 12 hours, and          |
| ®                    | andliled       | 8              | preheat it for "dehumidification" 12H to avoid |
| Partie R Q           | angillo        | 10 打巨岩         | damaging the light tube after the LED          |
| / 强力与                |                | 通过5            | 7 建建筑  |



| TANGLI        |   | TANGL  | screen is damped.  |  |
|---------------|---|--|--|--|
| ®<br>Danest Q | angliled                                | ®<br>MATERIAL STATES AND A STATES AND A STATES A | While renting, do not touch the display screen with water. If there is any water, make sure that the water on the screen is dried. After 2H, light the display screen 2H, and evaporate the water by lamp and IC heat. |  |
|               |   |  | It is strictly forbidden to use indoor rental screens as outdoor rental screens,   |  |
| ®             | _uiled                                  | ®  | especially in the open air environment.  |  |
| Date N Q      | Avoid                                   | It is strictly for   | orbidden to rebuild after the installation of the  |  |
| TANGLI        | construction                            | LED display screen, so as to prevent the LED display   |  |  |
|               | work to the                             | screen from being affected by the impact of high current   |  |  |
|               | installed LED                           |  |  |  |
|               | screen                                  | equipment.   |  |  |
| 5. to 80      | Sangliled Sangliled Sangliled Sangliled |  |  |  |

li 强力巨彩 TANG LI 党語 Qiangliled 製造版 Qiangliled 東京 Qianglil 歌語 Qiangliled And Qiangliled 製力 Qianglil **建力巨彩** Qiangliled **加斯Qiangliled** <sub>建边票</sub>Qianglil