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# N580DB-22MM vehicle module specification

## 1. Scope of application

The information contained in this specification is applicable to N580DB-22MM on-board module and contains key information such as module specifications, appearance dimensions and operation instructions.

## 2. Overview

The N580DB-22MM module is composed of 1 / 1.8 inch, 2 megapixel color image CMOS, sensor and ISP image processing chip to output 1080P analog HD image. ISP has color matrix, sharpness, gamma correction, automatic electronic shutter, automatic white balance, automatic gain control, adaptive backlight compensation, 2D noise reduction, 3D noise reduction, reversing assist line and other functions.

## 3. Technical parameters

| order number | The parameter name          | Parameter specifications         |
|--------------|-----------------------------|----------------------------------|
| 1            | Sensor type:                | CMOS                             |
| 2            | Sensory size:               | 1/1.8 "                          |
| 3            | Effective pixels:           | 1920(H)x1080(V)                  |
| 4            | Pixel size:                 | 4.0um(H)x4.0um(V)                |
| 5            | CRA:                        | 16 °                             |
| 6            | white balance:              | voluntarily                      |
| 7            | Automatic Gain Control AGC: | voluntarily                      |
| 8            | Backlight compensation:     | have                             |
| 9            | denoise:                    | 2D DNR,3D DNR                    |
| 10           | noise-signal ratio:         | >52dB(AGC OFF)                   |
| 11           | Video Format:               | AHD 1080P@25FPS; AHD 1080P@30FPS |
| 12           | Video Output:               | And 1.0 Vp-p / 75 ohms           |
| 13           | Gamma correction:           | 0.45                             |
| 13           | Operating Voltage:          | DC12V                            |
| 14           | Operating current:          | 48mA                             |
| 15           | Power:                      | 0.6W                             |
| 16           | Working temperature:        | -40°C~+85°C                      |
| 17           | Exterior Dimensions:        | 22mm*22mm                        |

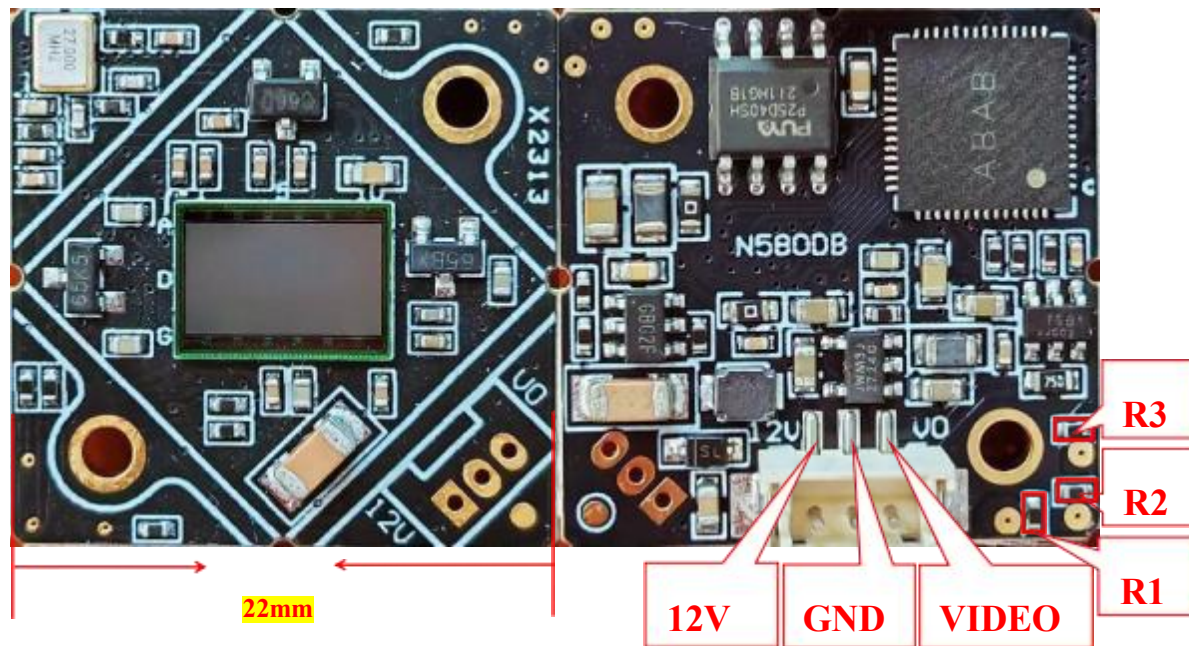
## 4. Storage method

A. Good storage conditions: refers to the temperature less than 25 degrees, relative humidity less than 65%, temperature control, no corrosive gas in indoor environment, electrostatic bag packaging storage.

B. General storage conditions: refers to the temperature is not higher than 35 degrees, the relative humidity is less than 75%, the indoor environment without corrosive gas, electrostatic bag packaging storage.

C. Long-term storage: if used to avoid moisture risk, baking at 80 degrees for 4 hours, must be re-tested.

## 5. Appearance and interface



|                                                                                                                    |                                                                                      |
|--------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| 12V                                                                                                                | power input                                                                          |
| GND                                                                                                                | the earth                                                                            |
| VIDEO                                                                                                              | video monitor 525 vidicon video out                                                  |
| R1                                                                                                                 | R1 default: patch mirror, do not stick to the original image.(Customizable function) |
| R2                                                                                                                 | R2 default: patch without labeled, not labeled.(Customizable function)               |
| R3                                                                                                                 | R3 default: patch 1080P, do not stick 720P.(Customizable function)                   |
| Note: The functions of R1, R2 and R3 correspond to the actual procedure and are set according to the requirements. |                                                                                      |

## 6. Video output mode

| order number | model                   | explain                                                |
|--------------|-------------------------|--------------------------------------------------------|
| 1            | N580DB-22MM-AHD-P-M     | AHD output \ 720 P @ 25 FPS \ mirror                   |
| 2            | N580DB-22MM-AHD-P-M-L   | AHD output \ 720 P @ 25 FPS \ mirror \ reversing line  |
| 3            | N580DB-22MM-AHD-N-M     | AHD output \ 720 P @ 30 FPS \ mirror                   |
| 4            | N580DB-22MM-AHD-N-M-L   | AHD output \ 720 P @ 30 FPS \ mirror \ reversing line  |
| 5            | N580DB-22MM-AHD-H-P-M   | AHD output \ 1080 P @ 25 FPS \ mirror                  |
| 6            | N580DB-22MM-AHD-H-P-M-L | AHD Output \ 1080 P @ 25 FPS \ Mirror \ reversing line |
| 7            | N580DB-22MM-AHD-H-N-M   | AHD output \ 1080 P @ 30 FPS \ mirror                  |
| 8            | N580DB-22MM-AHD-H-N-M-L | AHD Output \ 1080 P @ 30 FPS \ Mirror \ reversing line |

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