

DJI Antenna Datasheet

ZV902 antenna 2/3

2023-09-04



Revision history

| Version | Change notes | Modifier | Date |
|---------|--------------|-------------|------------|
| V1.0 | First draft. | Stephen.Wan | 2023.09.04 |
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DJI Antenna Datasheet

1、 Basic Specifications

| No. | Specification | Descriptions | Notes | |
|-----|------------------------|---|-------|--|
| 1 | Antenna Name | ZV902 Ant2/3 | | |
| 2 | Brand | DJI | | |
| 3 | Operation Frequency | 2.4~2.483GHz; 5.15~5.25GHz 5.725~5.85GHz | | |
| 4 | Connector Type | Ipex-1 | | |
| 5 | Impedance | 50ohm | | |
| 6 | Gain | 3.5dBi@2.4~2.483GHz sdr 3.5dBi@5.15~5.25GHz 3.5dBi@5.725~5.875GHz sdr | | |
| 7 | Efficiency | $\geq 50\%$ SDR | | |
| 8 | VSWR | ≤ 2 | | |
| 9 | Polarization type | Linear | | |
| 10 | 3dB Beamwidth | Omnidirectional horizon | | |
| 11 | Weight | | | |
| 12 | Antenna type | Dipole | | |

2、 Antenna Return Loss/VSWR

2.1 SDR antenna return loss



3、 Antenna Gain

校准日期： 2023/08/31

测试方法： 近场转台测试

测试暗室型号： Satimo SG24

天线摆放位置参考坐标系：

3.1 sdr

| Frequency | Efficiency | Gain(dBi) |
|-----------|------------|-----------|
| 2400MHz | 47% | 2.4 |
| 2410MHz | 49% | 2.4 |
| 2420MHz | 47% | 2.5 |
| 2450MHz | 49% | 3.5 |



| | | |
|---------|-----|-----|
| 2470MHz | 50% | 2.3 |
| 2483MHz | 48% | 2.2 |

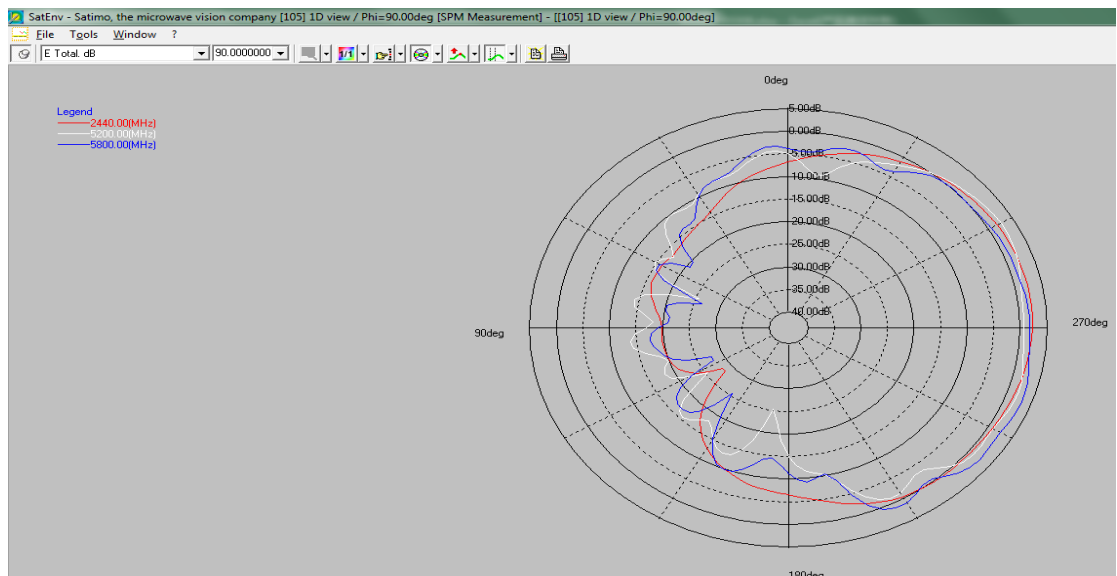
| Frequency | Efficiency | Gain(dBi) |
|-----------|------------|-----------|
| 5150MHz | 47% | 3.2 |
| 5200MHz | 49% | 3.5 |
| 5250MHz | 47% | 3.4 |

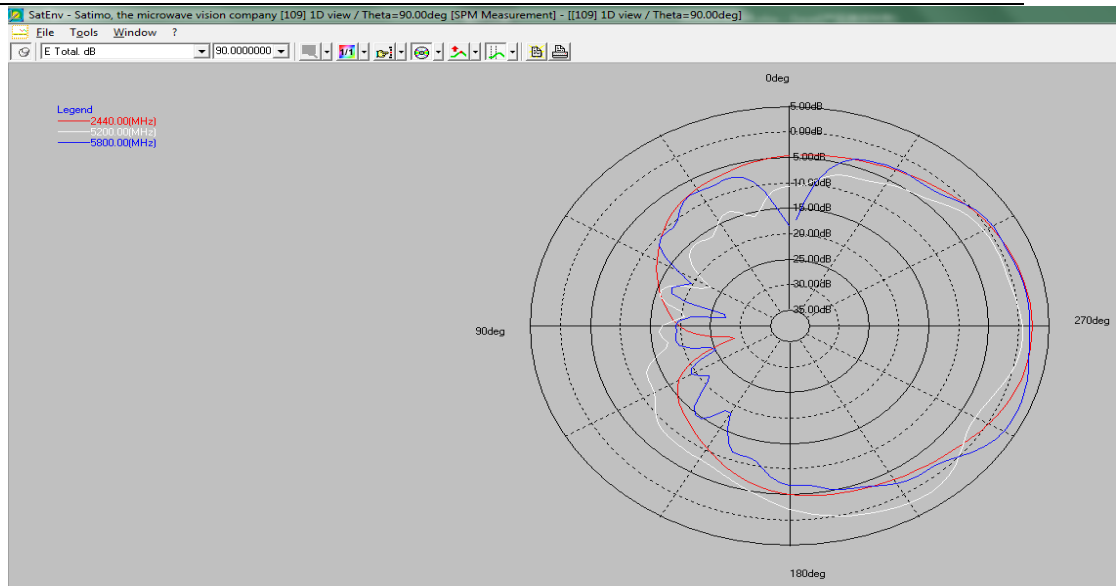
| Frequency | Efficiency | Gain(dBi) |
|-----------|------------|-----------|
| 5725MHz | 47% | 3.2 |
| 5775MHz | 49% | 3.4 |
| 5800MHz | 46% | 3.4 |
| 5825MHz | 49% | 3.5 |
| 5850MHz | 44% | 3.3 |

4、 Radiation Pattern

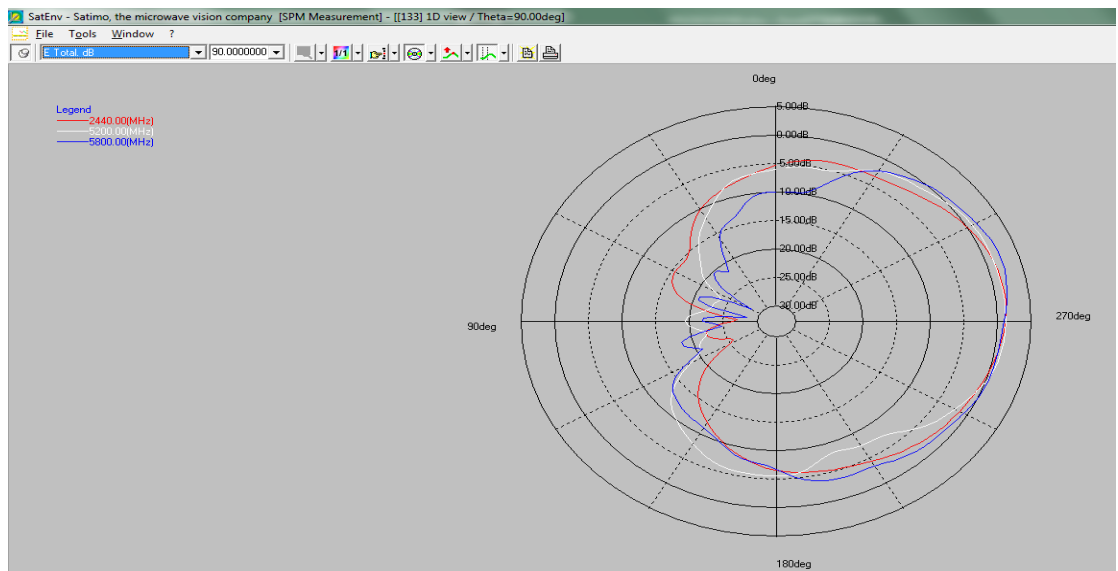
4.1 sdr antenna radiation pattern

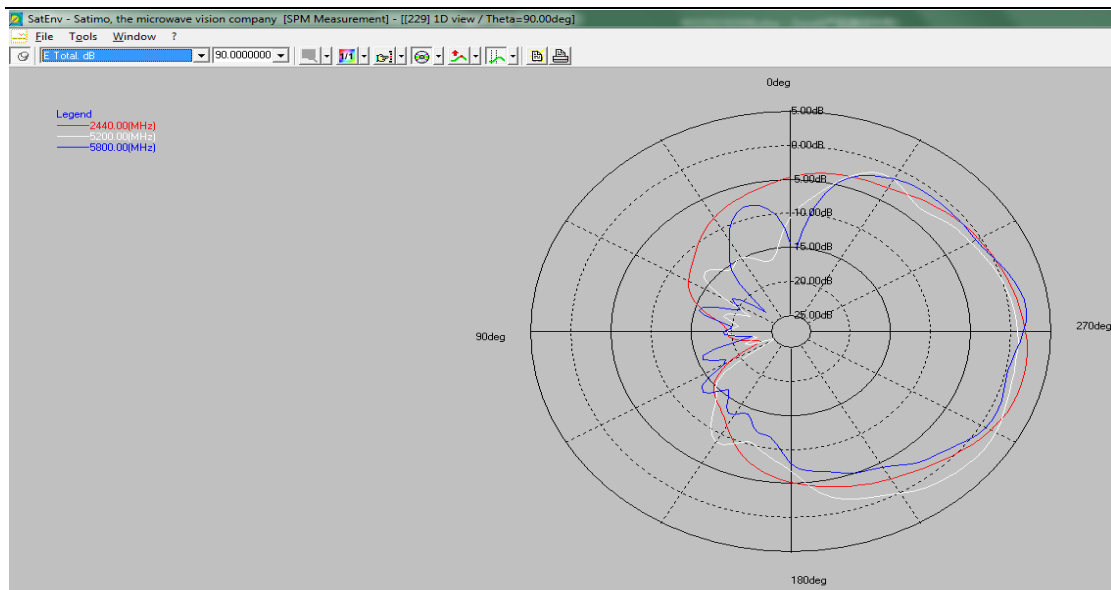
Ant2





Ant3





5、 Structure drawing

5.1 SDR antenna

Name of the antenna manufacturer: Shenzhen ZTX Communication Technology Co., LTD.

Address of the antenna manufacturer: No.34 Shilong Road, Bao'an District, Shenzhen, Guangdong Province

Website of the antenna manufacturer: www.ztxun.com



DJI Antenna Datasheet

ZV902 antenna 0/1

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DJI Antenna Datasheet

6、 Basic Specifications

| No. | Specification | Descriptions | Notes | |
|-----|------------------------|---|-------|--|
| 1 | Antenna Name | ZV902 Ant0/1 | | |
| 2 | Brand | DJI | | |
| 3 | Operation Frequency | 2.4~2.483GHz; 5.15~5.25GHz 5.725~5.85GHz | | |
| 4 | Connector Type | Ipex-1 | | |
| 5 | Impedance | 50ohm | | |
| 6 | Gain | 2dBi@2.4~2.483GHz sdr 1.5dBi@5.15~5.25GHz sdr 2.5dBi@5.725~5.875GHz sdr | | |
| 7 | Efficiency | $\geq 50\%$ SDR | | |
| 8 | VSWR | ≤ 2 | | |
| 9 | Polarization type | Linear | | |
| 10 | 3dB Beamwidth | Omnidirectional horizon | | |
| 11 | Weight | | | |
| 12 | Antenna type | Dipole | | |

7、 Antenna Return Loss/VSWR

2.1 SDR antenna return loss



8、 Antenna Gain

校准日期： 2023/08/31

测试方法： 近场转台测试

测试暗室型号： Satimo SG24

天线摆放位置参考坐标系：

3.1 sdr

| Frequency | Efficiency | Gain(dBi) |
|-----------|------------|-----------|
| 2400MHz | 58% | 1.42 |
| 2410MHz | 59% | 1.50 |
| 2420MHz | 54% | 2.00 |
| 2450MHz | 59% | 1.77 |



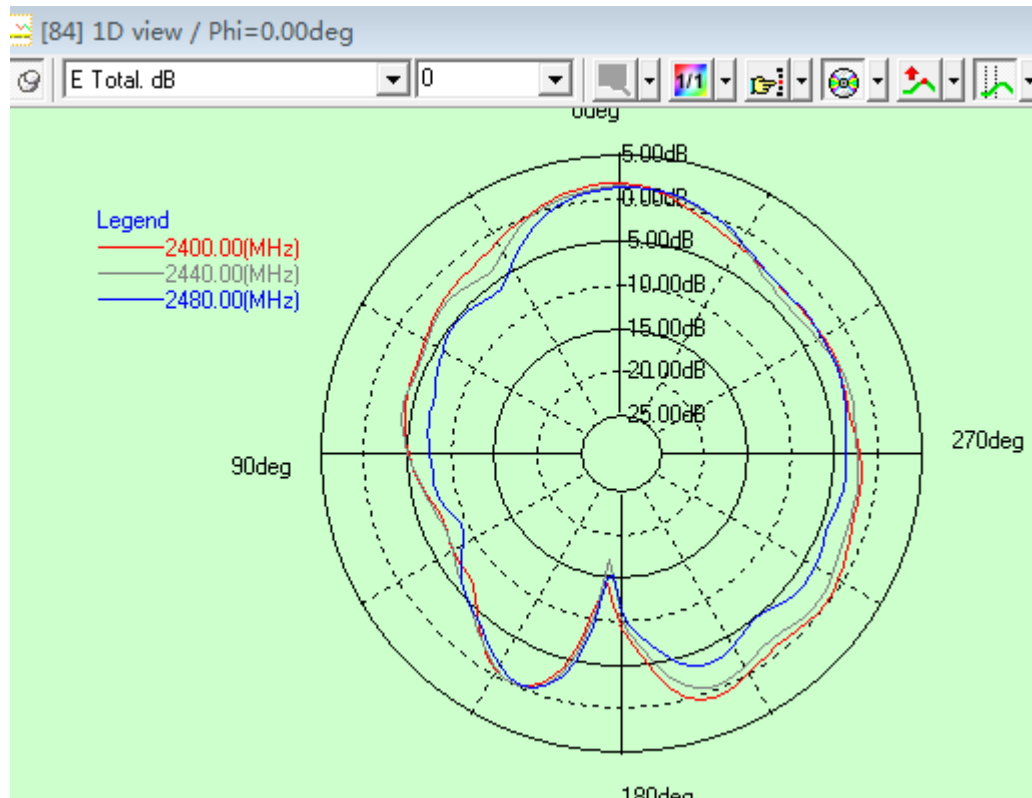
| | | |
|---------|-----|------|
| 2470MHz | 52% | 1.11 |
| 2483MHz | 53% | 1.21 |

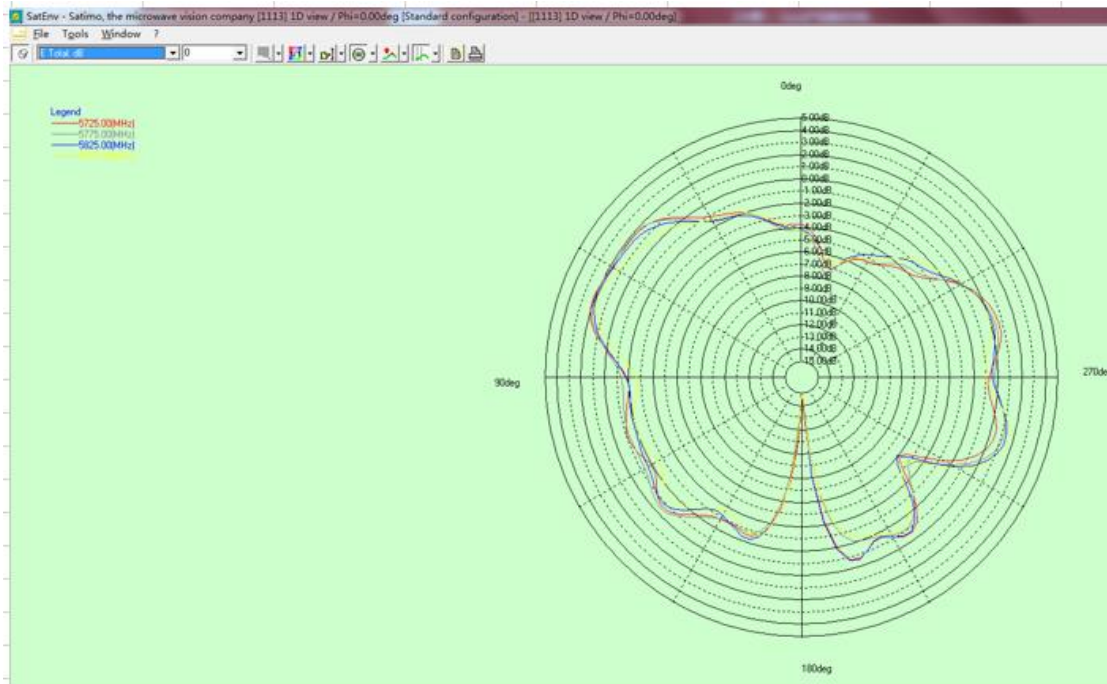
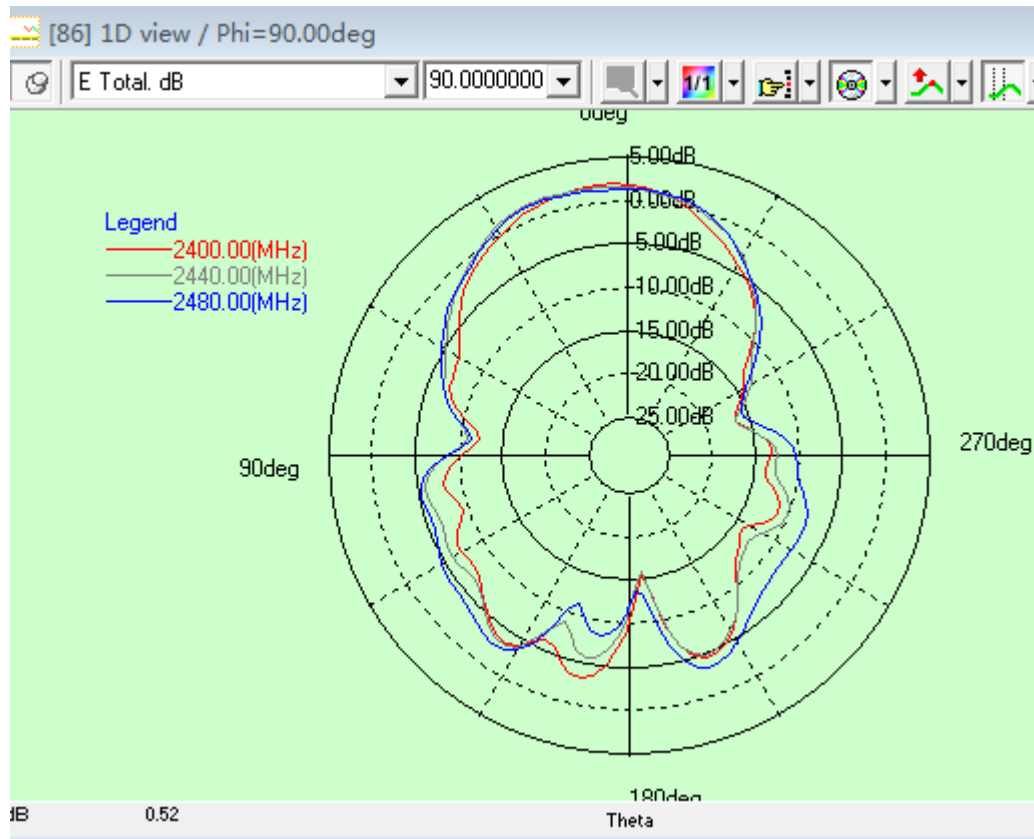
| Frequency | Efficiency | Gain(dBi) |
|-----------|------------|-----------|
| 5150MHz | 59% | 1.20 |
| 5200MHz | 56% | 1.50 |
| 5250MHz | 54% | 1.40 |

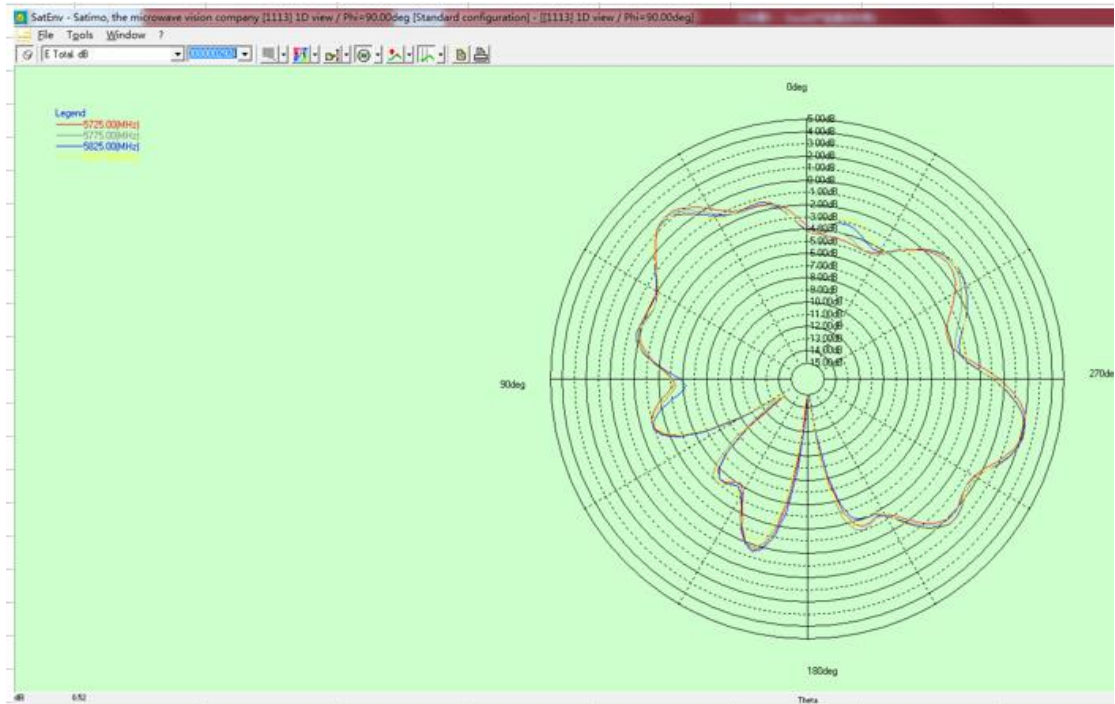
| Frequency | Efficiency | Gain(dBi) |
|-----------|------------|-----------|
| 5725MHz | 57% | 2.50 |
| 5775MHz | 59% | 2.49 |
| 5800MHz | 56% | 2.38 |
| 5825MHz | 59% | 2.02 |
| 5850MHz | 54% | 2.27 |

9、 Radiation Pattern

4.1 sdr antenna radiation pattern







10、 Structure drawing

5.1 SDR antenna

Name of the antenna manufacturer : Shenzhen ZTX Communication



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