

vivaly^{te}

DMX

CONTROL

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DMX

WHAT IS DMX512 CONTROL SYSTEM

DMX512 is a standard for digital communication networks that are commonly used to control stage lighting and effects. DMX has also expanded to uses in non-theatrical interior and architectural lighting, at scales ranging from strings of Christmas lights to electronic billboards and stadium or arena concerts. DMX can now be used to control almost anything, reflecting its popularity in theaters and venues.

WHY CHOOSE DMX512

- Popularity in robustness.
- Strong anti-interference ability.
- Low transmission error probability.
- Long function distance and fast transmission.

Recommend Controller

- VCS-BV-DMX-1809
- VCS-BV-DMX-LT123
- VCS-BV-DMX-SPI202
- VCS-LT-800 V5.0 DMX





VDMXN-5050-30-12-RGB | IC:TM512AC/UCS512C4

| Color | K/nm | Lm/m | Lm/W | W/m |
|-------|---------|------|------|------|
| R | 615-630 | 52 | 15.5 | 3.36 |
| G | 515-530 | 76 | 22.5 | 3.36 |
| B | 460-470 | 20 | 5.8 | 3.36 |
| RGB | / | 153 | 19.9 | 7.68 |

VDMXN-5050-60-12/24-RGB | IC:TM512AC/UCS512C4

| Color | K/nm | Lm/m | Lm/W | W/m |
|-------|---------|------|------|------|
| R | 615-630 | 104 | 15.5 | 3.36 |
| G | 515-530 | 152 | 22.5 | 3.36 |
| B | 460-470 | 39 | 5.8 | 3.36 |
| RGB | / | 306 | 19.9 | 7.68 |



VDMXN-F5050-30-12-RGBW | IC:TM512AC/UCS512C4

| Color | K/nm | Lm/m | Lm/W | W/m |
|-------|-----------|---------|-------|------|
| R | 615-630 | 52 | 15.5 | 3.36 |
| G | 515-530 | 119 | 35.5 | 3.36 |
| B | 460-470 | 29 | 8.6 | 3.36 |
| W | 2700-6500 | 134-202 | 40-60 | 3.36 |
| RGBW | 100000 | 295-443 | 30-45 | 9.84 |

VDMXN-F5050-60-12/24-RGBW | IC:TM512AC/UCS512C4

| Color | K/nm | Lm/m | Lm/W | W/m |
|-------|-----------|---------|-------|-------|
| R | 615-630 | 105 | 15.5 | 6.72 |
| G | 515-530 | 238 | 35.5 | 6.72 |
| B | 460-470 | 58 | 8.6 | 6.72 |
| W | 2700-6500 | 269-403 | 40-60 | 6.72 |
| RGBW | 100000 | 590-885 | 30-45 | 19.68 |



VDMXN-5050A-XX-XX | IC:TM512AC/UCS512C4

| Model No. | CCT | Lm/m | Lm/W | W/m |
|------------------|-------|------|------|-------|
| DMXN-5050A-40-12 | 4000K | 760 | 72 | 10.56 |
| DMXN-5050A-60-12 | 4000K | 1321 | 86 | 10.56 |
| DMXN-5050A-60-24 | 4000K | 1337 | 87 | 15.36 |



VNL-F16F-RGBW | IC:TM512AC

| Color | Lm/m | Lm/W | W/m |
|-------|------|------|-------|
| 6500K | / | / | 4.32 |
| R | 61 | 12.2 | 4.32 |
| G | 142 | 28.4 | 4.32 |
| B | 33 | 6.6 | 4.32 |
| RGBW | 476 | 25.0 | 17.28 |



VTM-D30 | IC:512B3

| Model No. | K/nm | LM/pcs | Gray Level | W/pcs |
|-----------|-----------|--------|------------|-------|
| D302-Y | 2000±200 | 5 | / | 0.66 |
| D302-G | 520-525 | 14 | / | 0.66 |
| D302-B | 465-470 | 3 | / | 0.66 |
| D302-W | 2800-6500 | 42 | / | 0.66 |
| D304-RGB | 100000 | 22 | 256 | 0.66 |
| D305-RGB | 100000 | 22 | 256/65536 | 0.66 |



VTM-PQ6 | IC:TM512AC

| Color | K/nm | Lm/pcs | Lm/W | W/pcs |
|-------|---------|--------|------|-------|
| W | 6500 | 17 | 50 | 0.33 |
| R | 620-630 | 3 | 10 | 0.33 |
| G | 525-530 | 11 | 30 | 0.33 |
| B | 460-470 | 4 | 12 | 0.33 |
| RGBW | / | 40 | 40 | 0.98 |

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SPI

CONTROL



SPI

WHAT IS SPI CONTROL SYSTEM

The Serial Peripheral Interface (SPI) is a synchronous serial communication interface specification used for short-distance communication, primarily in embedded systems. SPI control system is controlled in cascade mode. Since the chip of this control method is specially designed for the LED screen, and the driver chip designed for the screen is multi-channel, this control method is mostly used on the LED contour lights.

WHY CHOOSE SPI

- Simple software implementation.
- Extremely simple hardware interfacing.
- Provide good signal integrity and high speed.
- Signals are unidirectional allowing for easy galvanic isolation.

Recommend Controller

- VCS-BV-1000
- VCS-BV-HC008
- VCS-BV-MR502
- VCS-BV-SP105E
- VCS-SPI-16+M16





VDN-N5050-30-5-RGB | IC:WS2811/SK6812

| Color | K/nm | Lm/m | Lm/W | W/m |
|-------|---------|------|------|-----|
| R | 615-630 | 33 | 15 | 2.2 |
| G | 515-530 | 79 | 36 | 2.2 |
| B | 460-470 | 17 | 8 | 2.2 |
| RGB | / | 122 | 23 | 5.4 |

VDN-N5050-60-5-RGB | IC:WS2811/SK6812

| Color | K/nm | Lm/m | Lm/W | W/m |
|-------|---------|------|------|------|
| R | 615-630 | 64 | 17 | 3.8 |
| G | 515-530 | 150 | 41 | 3.8 |
| B | 460-470 | 32 | 9 | 3.8 |
| RGB | / | 230 | 23 | 10.8 |



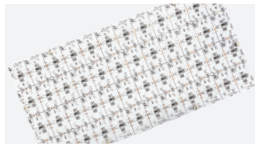
VDN-5050A-48-12/24-RGB | IC:UCS1903

| Color | K/nm | Lm/m | Lm/W | W/m |
|-------|---------|------|------|------|
| R | 615-630 | 38 | 11.5 | 3.26 |
| G | 515-530 | 80 | 24.5 | 3.26 |
| B | 460-470 | 18 | 5.5 | 3.26 |
| RGB | / | 196 | 20 | 9.79 |



VDN-5050J1-60-12-RGB | IC:WS2811

| Color | K/nm | Lm/m | Lm/W | W/m |
|-------|---------|------|------|-----|
| R | 615-630 | 42 | 4.8 | 8.6 |
| G | 515-530 | 111 | 12.8 | 8.6 |
| B | 460-470 | 37 | 4.3 | 8.6 |
| RGB | / | 185 | 2.15 | 8.6 |



VLE-H150-D3-DN4040-288-24 | IC:TM1914

| Color | K/nm | Lm/pcs | Lm/W | W/pc |
|-------|---------|--------|------|------|
| R | 620-630 | 548 | 15 | 33 |
| G | 515-530 | 1525 | 41 | 33 |
| B | 460-470 | 330 | 9 | 33 |
| RGB | / | 2343 | 28 | 72 |







VDN-F5050A-60-12/24-RGBW | IC:TM1814

| Color | K/nm | Lm/m | Lm/W | W/m |
|-------|-----------|------|------|------|
| R | 620-625 | 108 | 15 | 7.2 |
| G | 515-530 | 338 | 47 | 7.2 |
| B | 460-470 | 69 | 9.5 | 7.2 |
| W | 2700-6500 | 783 | 68 | 11.5 |
| RGBW | 100000 | 1200 | 24 | 28.8 |





VNL-S10C-RGB | IC:TM1914



| Color | Lm/m | Lm/W | W/m |
|---------------------------------------------------------------------------------------|------|------|------|
|  R | 50 | 10.3 | 5.76 |
|  G | 126 | 23.6 | 5.76 |
|  B | 27 | 5.0 | 5.76 |
|  RGB | 202 | 13.0 | 17.3 |

VNL-F20C-RGB | IC:TM1914



| Color | Lm/m | Lm/W | W/m |
|---------------------------------------------------------------------------------------|------|------|-------|
|  R | 141 | 31 | 5.12 |
|  G | 313 | 61 | 5.12 |
|  B | 65 | 12 | 5.12 |
|  RGB | 499 | 33 | 15.36 |

VNL-S10C-RGBW | IC: TM1814



| Color | Lm/m | Lm/W | W/m |
|---------|------|------|------|
| R | 26 | 3.2 | 7.9 |
| G | 87 | 7.6 | 11.0 |
| B | 23 | 1.9 | 12.0 |
| W:6000K | 136 | 11.1 | 12.0 |
| RGBW | 131 | 5.1 | 19.2 |

VNL-F16F-RGB | IC:TM1914



| Color | Lm/m | Lm/W | W/m |
|-------|------|------|-------|
| R | 61 | 12.2 | 4.32 |
| G | 142 | 28.4 | 4.32 |
| B | 33 | 6.6 | 4.32 |
| RGB | 476 | 25.0 | 17.28 |

VNL-F20C-RGBW | IC: TM1814



| Color | Lm/m | Lm/W | W/m |
|---------|------|------|------|
| R | 106 | 24.8 | 4.3 |
| G | 289 | 60.2 | 4.3 |
| B | 64 | 13.3 | 4.3 |
| W:6500K | 439 | 81.4 | 4.3 |
| RGBW | 876 | 47.3 | 17.2 |



VTM-PQ7 | IC:TM1914A

| Color | K/nm | Lm/pcs | Lm/W | W/pcs |
|-------|---------|--------|------|-------|
| R | 620-625 | 6 | 18 | 0.21 |
| G | 525-530 | 14 | 42 | 0.21 |
| B | 465-470 | 3 | 8 | 0.21 |
| RGB | 100000+ | 22 | 23 | 0.64 |



VTM-PQ5-B | IC:TM1914A

| Color | K/nm | Lm/pcs | Lm/W | W/pcs |
|-------|---------|--------|-------|-------|
| R | 620-625 | 5-7 | ≥24 | 0.2 |
| G | 525-530 | 10-12 | ≥49 | 0.2 |
| B | 465-470 | 2-3 | ≥9 | 0.2 |
| RGB | 100000+ | 19-21 | ≥24.5 | 0.65 |



VTM-CS7 | IC:TM1914A

| Color | K/nm | Lm/pcs | Lm/W | W/pcs |
|-------|---------|--------|------|-------|
| R | 620-625 | 2 | 16 | / |
| G | 525-530 | 4 | 34 | / |
| B | 465-470 | 1 | 8 | / |
| RGB | 12000+ | 6 | 20 | 0.27 |



VTM-CS6 | IC:TM1914A

| Color | K/nm | Lm/pcs | Lm/W | W/pcs |
|-------|---------|--------|------|-------|
| R | 620-625 | 2 | 18 | / |
| G | 520-530 | 4 | 35 | / |
| B | 460-470 | 1 | 9 | / |
| RGB | 12000+ | 7 | 25 | 0.27 |



VTM-CS8-A | IC:TM1914A

| Color | K/nm | Lm/pcs | Lm/W | W/pcs |
|-------|---------|--------|------|-------|
| R | 620-625 | / | / | 0.22 |
| G | 525-530 | / | / | 0.22 |
| B | 465-470 | / | / | 0.22 |
| RGB | 100000+ | 17 | 25 | 0.65 |



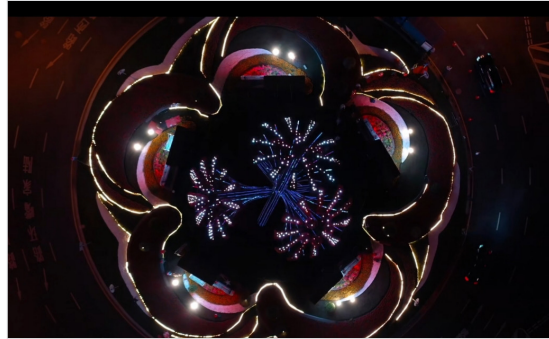
VTM-CS8 | IC:TM1914A

| Color | K/nm | Lm/pcs | Lm/W | W/pcs |
|-------|---------|--------|------|-------|
| R | 100000+ | 19 | 59 | 0.65 |
| R | 620-625 | 19 | 59 | 0.65 |
| G | 520-530 | 19 | 59 | 0.65 |
| B | 465-470 | 19 | 59 | 0.65 |

PROJECT CASES



New York, USA--Energy Flow



Shanghai,China--Lujiazui Ring Road



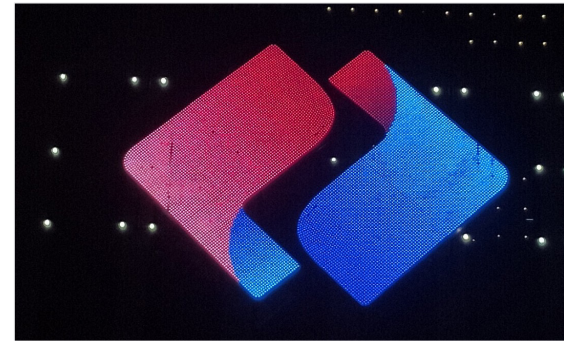
Shanghai,China--Shanghai Science and Technology Museum City Plaza



Shanghai,China--Pearl square



Shandong, China--Office building



Shandong, China--Power Construction Corporation of China