



KRYPTON

Y1640



# Y1640



## OPTIC

- LED: 16x40W RGBW LED
- Beam Angle: 4.6°-38°
- Zoom Range: 4°-40°
- Lifetime: 50000 H

## PAN & TILT MOVEMENT

- Tilt: 220°

## EFFECT

- Strobe: 1 - 20Hz Electronic
- RGBW Color Mixing and Full Pixel Control
- Color Temperature Range 2700K - 7000K Linear
- 64 Color Presets and 14 Color Macros
- Dimming Curve Modes

## CONTROL & PROGRAM

- Channel: 18/16/78CH
- Protocol: DMX512, RDM, Kling-Net, Art-Net
- Data Connector: 5 Pin DMX In/Out
- RJ45 Ethernet In/Out
- Adjustable LED Refresh Rate 900-25000 Hz
- 2.8 inches 180° Reversible LCD Menu Display

## SOFTWARE

- Via DMX signal to update

## SIZE & WEIGHT

- Size: 1068 × 189 × 291 mm
- N.W: 23.5 kgs

## POWER CONSUMPTION

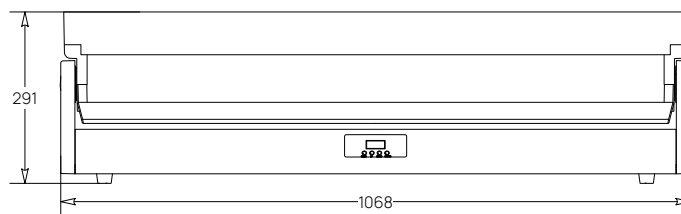
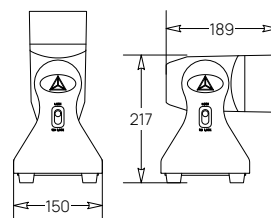
- Voltage: AC 110V ~ 240V 50/60Hz
- Rated Power: 740 W

## HOUSING

- Aluminum alloy + Plastic
- Fan cooling

## OTHER

- IP rating: IP30
- Work Environment: -5°C - 45°C



|                  | 4° (Lux)  | 34270 | 15260 | 9843 | 7215 | 7548 |
|------------------|-----------|-------|-------|------|------|------|
|                  | 37° (Lux) | 7649  | 2831  | 1398 | 832  | 573  |
|                  |           | 5m    | 2m    | 3m   | 4m   | 5m   |
| 4° Distance (m)  |           | 0.07  | 0.14  | 0.21 | 0.28 | 0.35 |
| 37° Distance (m) |           | 0.67  | 1.34  | 2.01 | 2.68 | 3.35 |

| Menu      | Display   | Function         | Value                           | Description                    |
|-----------|-----------|------------------|---------------------------------|--------------------------------|
| Address   | Address   | 001 - XXX        |                                 | Address Settings               |
| User Mode |           | Standard         | 18 Channels                     | 16 Bit                         |
|           |           | Basic            | 16 Channels                     | 8 Bit                          |
|           |           | Extend           | 78 Channels                     |                                |
| Function  | Status    | No DMX Mode      | Black/ <u>H</u> old/Auto        | Status when there is no DMX    |
|           |           | Tilt Inv         | <u>O</u> ff/On                  | Invert TILT                    |
|           |           | Feedback         | Off/On                          | Position Feedback              |
|           |           | Move Speed       | Speed 1 - 4                     | P/T Speed                      |
|           |           | Standby          | Off, 1m - 99m <u>15</u> m       | Lamp Sleep Time                |
|           | Fan Set   | Led Fan          | Auto                            | Sets fan speed at Auto         |
|           |           |                  | Low                             | Sets fan speed at Low          |
|           |           |                  | High                            | Sets fan speed at High         |
|           | Net ID    | Password         | Password # # #                  | Password = 050                 |
|           |           | Device IP        | xxx.xxx.xxx.xxx                 | Sets Device IP                 |
|           |           | Mask Addr        | xxx.xxx.xxx.xxx                 | Sets Mask address              |
|           | Protocol  | Art-Net          | Password # # #                  | Password = 050                 |
|           |           | sACN             |                                 |                                |
|           | Kling Net |                  | Enable                          | Display 180° flipped           |
|           |           |                  | Disable                         | Menu display Lock              |
|           | LCD Set   | Back Light       | 01m - 60m                       | Display Off time               |
|           |           | Flip Display     | <u>O</u> ff/On                  | Display 180° flipped           |
|           |           | Key Lock         | Off/ <u>O</u> n                 | Menu display Lock              |
|           |           | Display Flash    | Off/ <u>O</u> n                 | Display flashes when no signal |
|           | Temp: C/F | <u>C</u> elsius  |                                 | Unit temp selection            |
|           |           | Fahrenheit       |                                 |                                |
|           | Dim Curve | <u>S</u> tandard |                                 | Standard Mode                  |
|           |           | Stage            |                                 | Stage Mode                     |
|           |           | TV               |                                 | TV Mode                        |
|           |           | Architectural    |                                 | Architectural Mode             |
|           | Disp Set  | Theatre          |                                 | Theatre Mode                   |
|           |           | Address          |                                 |                                |
|           |           | Disp Ch          |                                 |                                |
|           |           | Slave Set        | Slave1,Slave2,Slave3            | Auto Location selection        |
|           | Gamma     | Auto Prog        | Master/Solo                     | Run automated program          |
|           |           |                  | <u>2.0</u> /2.2/2.4/2.8         |                                |
|           | Frequency |                  | <u>900</u> /1000/1100/1200/1300 | LED refresh rate               |
|           |           |                  | 1400/1500/2500/4000/5000Hz      |                                |
|           |           |                  | 10KHz/15KHz/20KHz/25KHz         |                                |

| Menu | Display     | Function         | Value     | Description                            |
|------|-------------|------------------|-----------|----------------------------------------|
| Info | Pixel       | Standard         |           | Standard Pixel Orientation             |
|      |             | Flip             |           | Flips Pixel Orientation                |
|      | DFSE        | <u>Off</u> /On   |           | Restore factory values                 |
|      | Time Info   | Current          |           | Current lamp running time (Hours)      |
|      |             | Total            |           | Total lamp running time (Hours)        |
|      |             | Last             |           | Last cleared unit running time (Hours) |
|      |             | Password         |           | Time reset password (050)              |
|      |             | Clear            |           | Reset password (060)                   |
|      | Temp Info   |                  | ###F      | Temperature display information        |
|      | Err Info    |                  | Tilt..... | Displays error message                 |
| Test | Model. Info |                  | Y1640     | Fixture model info                     |
|      | Software. V |                  | V1.0.3    | IC Software version                    |
|      | Reset M     | All              | Reset     | Reset all motors                       |
|      | Test Ch     | Tilt.....        |           | Test individual channels               |
|      | Man Ctrl    | Tilt = xxx :     |           | Manually test individual channels      |
|      | Calibrate   | Password         |           | Password = 050                         |
|      |             | Tilt, Red1 ..... |           |                                        |
|      |             |                  |           |                                        |

| Standard | Basic | Extended | Function      | Value   | Description   |
|----------|-------|----------|---------------|---------|---------------|
| 1        | 1     | 1        | Tilt          | 000-255 | Tilt Movement |
| 2        |       | 2        | Tilt Fine     | 000-255 | Tilt Fine     |
| 3        | 2     |          | All Red       | 000-255 | 0-100%        |
| 4        | 3     |          | All Green     | 000-255 | 0-100%        |
| 5        | 4     |          | All Blue      | 000-255 | 0-100%        |
| 6        | 5     |          | All White     | 000-255 | 0-100%        |
|          |       | 3        | Red Pixel 1   | 000-255 | 0-100%        |
|          |       | 4        | Blue Pixel 1  | 000-255 | 0-100%        |
|          |       | 5        | Green Pixel 1 | 000-255 | 0-100%        |
|          |       | 6        | White Pixel 1 | 000-255 | 0-100%        |
|          |       | 7        | Red Pixel 2   | 000-255 | 0-100%        |
|          |       | 8        | Blue Pixel 2  | 000-255 | 0-100%        |
|          |       | 9        | Green Pixel 2 | 000-255 | 0-100%        |
|          |       | 10       | White Pixel 2 | 000-255 | 0-100%        |
|          |       | 11       | Red Pixel 3   | 000-255 | 0-100%        |
|          |       | 12       | Blue Pixel 3  | 000-255 | 0-100%        |
|          |       | 13       | Green Pixel 3 | 000-255 | 0-100%        |
|          |       | 14       | White Pixel 3 | 000-255 | 0-100%        |
|          |       | 15       | Red Pixel 4   | 000-255 | 0-100%        |
|          |       | 16       | Blue Pixel 4  | 000-255 | 0-100%        |
|          |       | 17       | Green Pixel 4 | 000-255 | 0-100%        |
|          |       | 18       | White Pixel 4 | 000-255 | 0-100%        |
|          |       | 19       | Red Pixel 5   | 000-255 | 0-100%        |
|          |       | 20       | Blue Pixel 5  | 000-255 | 0-100%        |
|          |       | 21       | Green Pixel 5 | 000-255 | 0-100%        |
|          |       | 22       | White Pixel 5 | 000-255 | 0-100%        |
|          |       | 23       | Red Pixel 6   | 000-255 | 0-100%        |
|          |       | 24       | Blue Pixel 6  | 000-255 | 0-100%        |
|          |       | 25       | Green Pixel 6 | 000-255 | 0-100%        |
|          |       | 26       | White Pixel 6 | 000-255 | 0-100%        |
|          |       | 27       | Red Pixel 7   | 000-255 | 0-100%        |
|          |       | 28       | Blue Pixel 7  | 000-255 | 0-100%        |
|          |       | 29       | Green Pixel 7 | 000-255 | 0-100%        |
|          |       | 30       | White Pixel 7 | 000-255 | 0-100%        |
|          |       | 31       | Red Pixel 8   | 000-255 | 0-100%        |
|          |       | 32       | Blue Pixel 8  | 000-255 | 0-100%        |
|          |       | 33       | Green Pixel 8 | 000-255 | 0-100%        |
|          |       | 34       | White Pixel 8 | 000-255 | 0-100%        |

| Standard | Basic | Extended | Function       | Value   | Description           |
|----------|-------|----------|----------------|---------|-----------------------|
|          |       | 35       | Red Pixel 9    | 000-255 |                       |
|          |       | 36       | Blue Pixel 9   | 000-255 |                       |
|          |       | 37       | Green Pixel 9  | 000-255 |                       |
|          |       | 38       | White Pixel 9  | 000-255 |                       |
|          |       | 39       | Red Pixel 10   | 000-255 |                       |
|          |       | 40       | Blue Pixel 10  | 000-255 |                       |
|          |       | 41       | Green Pixel 10 | 000-255 |                       |
|          |       | 42       | White Pixel 10 | 000-255 |                       |
|          |       | 43       | Red Pixel 11   | 000-255 |                       |
|          |       | 44       | Blue Pixel 11  | 000-255 |                       |
|          |       | 45       | Green Pixel 11 | 000-255 |                       |
|          |       | 46       | White Pixel 11 | 000-255 |                       |
|          |       | 47       | Red Pixel 12   | 000-255 |                       |
|          |       | 48       | Blue Pixel 12  | 000-255 |                       |
|          |       | 49       | Green Pixel 12 | 000-255 |                       |
|          |       | 50       | White Pixel 12 | 000-255 |                       |
|          |       | 51       | Red Pixel 13   | 000-255 |                       |
|          |       | 52       | Blue Pixel 13  | 000-255 |                       |
|          |       | 53       | Green Pixel 13 | 000-255 |                       |
|          |       | 54       | White Pixel 13 | 000-255 |                       |
|          |       | 55       | Red Pixel 14   | 000-255 |                       |
|          |       | 56       | Blue Pixel 14  | 000-255 |                       |
|          |       | 57       | Green Pixel 14 | 000-255 |                       |
|          |       | 58       | White Pixel 14 | 000-255 |                       |
|          |       | 59       | Red Pixel 15   | 000-255 |                       |
|          |       | 60       | Blue Pixel 15  | 000-255 |                       |
|          |       | 61       | Green Pixel 15 | 000-255 |                       |
|          |       | 62       | White Pixel 15 | 000-255 |                       |
|          |       | 63       | Red Pixel 16   | 000-255 |                       |
|          |       | 64       | Blue Pixel 16  | 000-255 |                       |
|          |       | 65       | Green Pixel 16 | 000-255 |                       |
|          |       | 66       | White Pixel 16 | 000-255 |                       |
|          |       | 67       | Color Temp     | 000-255 | 2700k-7000k           |
|          |       | 68       | Color Macros   | 000-000 | Idle                  |
|          |       |          |                | 001-255 | See Color Macro Chart |

| Standard | Basic | Extended | Function            | Value   | Description                |
|----------|-------|----------|---------------------|---------|----------------------------|
| 9        | 7     | 69       | Shutter             | 000-031 | LED's Off                  |
|          |       |          |                     | 032-063 | LED's On                   |
|          |       |          |                     | 064-095 | Strobe Slow > Fast         |
|          |       |          |                     | 096-127 | LED's On                   |
|          |       |          |                     | 128-159 | Pulse Slow > Fast          |
|          |       |          |                     | 160-191 | LED's On                   |
|          |       |          |                     | 192-223 | Random Slow > Fast         |
|          |       |          |                     | 244-255 | LED's On                   |
| 10       | 8     | 70       | Dimmer              | 000-255 | 0-100%                     |
| 11       | 9     | 71       | Dimmer Fine         | 000-255 | 0-100%                     |
| 12       | 10    | 72       | Zoom                | 000-255 | 0-100%                     |
| 13       | 11    | 73       | Program Macros      | 000-000 | LED On                     |
|          |       |          |                     | 001-014 | LED Off                    |
|          |       |          |                     | 015-030 | Auto Program 1             |
|          |       |          |                     | 031-046 | Auto Program 2             |
|          |       |          |                     | 047-062 | Auto Program 3             |
|          |       |          |                     | 063-078 | Auto Program 4             |
|          |       |          |                     | 079-094 | Auto Program 5             |
|          |       |          |                     | 095-110 | Auto Program 6             |
|          |       |          |                     | 111-126 | Auto Program 7             |
|          |       |          |                     | 127-142 | Auto Program 8             |
|          |       |          |                     | 143-158 | Auto Program 9             |
|          |       |          |                     | 159-174 | Auto Program 10            |
|          |       |          |                     | 175-190 | Auto Program 11            |
|          |       |          |                     | 191-206 | Auto Program 12            |
|          |       |          |                     | 207-222 | Auto Program 13            |
|          |       |          |                     | 223-238 | Auto Program 14            |
|          |       |          |                     | 239-255 | Auto Program 15            |
| 14       | 12    | 74       | Program Macro Speed | 000-255 | 0-100%                     |
| 15       | 13    | 75       | Program Macro Fade  | 000-255 | 0-100%                     |
| 16       | 14    | 76       | Dimmer Mode         | 000-020 | Standard                   |
|          |       |          |                     | 021-040 | Stage                      |
|          |       |          |                     | 041-060 | TV                         |
|          |       |          |                     | 061-080 | Architectural              |
|          |       |          |                     | 081-100 | Theater                    |
|          |       |          |                     | 101-255 | Default to Fixture Setting |

| Standard | Basic | Extended | Function   | Value   | Description                      |
|----------|-------|----------|------------|---------|----------------------------------|
| 17       | 15    | 77       | Tilt Speed | 000-225 | Tilt Fast > Slow                 |
|          |       |          |            | 226-235 | Blackout on Movement             |
|          |       |          |            | 236-255 | Idle                             |
| 18       | 16    | 78       | Function   | 000-079 | Idle                             |
|          |       |          |            | 078-089 | Reset All                        |
|          |       |          |            | 090-099 | Idle                             |
|          |       |          |            | 100-119 | Internal Program 1 (Scene 1-8)   |
|          |       |          |            | 120-139 | Internal Program 2 (Scene 9-16)  |
|          |       |          |            | 140-159 | Internal Program 3 (Scene 17-24) |
|          |       |          |            | 160-179 | Internal Program 4 (Scene 25-32) |
|          |       |          |            | 180-199 | Internal Program 5 (Scene 33-40) |
|          |       |          |            | 200-219 | Internal Program 6 (Scene 41-48) |
|          |       |          |            | 220-239 | Internal Program 7 (Scene 49-56) |
|          |       |          |            | 240-255 | Idle                             |

Pixel Layout: Standard

|   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |
|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 |
|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|

Pixel Layout: Flipped

|    |    |    |    |    |    |    |   |   |   |   |   |   |   |   |   |
|----|----|----|----|----|----|----|---|---|---|---|---|---|---|---|---|
| 16 | 15 | 14 | 13 | 12 | 11 | 10 | 9 | 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 |
|----|----|----|----|----|----|----|---|---|---|---|---|---|---|---|---|



### Color Macros Chart

#### DMX Values 1-4

Red = 080  
Green = 255  
Blue = 234  
White = 080

#### DMX Values 5-8

Red = 080  
Green = 255  
Blue = 164  
White = 080

#### DMX Values 9-12

Red = 077  
Green = 255  
Blue = 112  
White = 077

#### DMX Values 13-16

Red = 117  
Green = 255  
Blue = 083  
White = 083

#### DMX Values 17-20

Red = 160  
Green = 255  
Blue = 077  
White = 077

#### DMX Values 21-24

Red = 223  
Green = 255  
Blue = 083  
White = 083

#### DMX Values 25-28

Red = 255  
Green = 243  
Blue = 077  
White = 077

#### DMX Values 29-32

Red = 255  
Green = 200  
Blue = 074  
White = 074

#### DMX Values 33-36

Red = 255  
Green = 166  
Blue = 077  
White = 077

#### DMX Values 37-40

Red = 255  
Green = 125  
Blue = 074  
White = 074

#### DMX Values 41-44

Red = 255  
Green = 097  
Blue = 077  
White = 074

#### DMX Values 45-48

Red = 255  
Green = 071  
Blue = 077  
White = 071

#### DMX Values 49-52

Red = 255  
Green = 083  
Blue = 134  
White = 083

#### DMX Values 53-56

Red = 255  
Green = 093  
Blue = 182  
White = 093

#### DMX Values 57-60

Red = 255  
Green = 096  
Blue = 236  
White = 096

#### DMX Values 61-64

Red = 238  
Green = 093  
Blue = 255  
White = 093

#### DMX Values 65-68

Red = 196  
Green = 087  
Blue = 255  
White = 087

#### DMX Values 69-72

Red = 150  
Green = 090  
Blue = 255  
White = 090

#### DMX Values 73-76

Red = 100  
Green = 077  
Blue = 255  
White = 077

#### DMX Values 77-80

Red = 077  
Green = 100  
Blue = 255  
White = 077

#### DMX Values 81-84

Red = 067  
Green = 148  
Blue = 255  
White = 067

#### DMX Values 85-88

Red = 077  
Green = 195  
Blue = 255  
White = 077

#### DMX Values 89-92

Red = 077  
Green = 234  
Blue = 255  
White = 077

#### DMX Values 93-96

Red = 158  
Green = 255  
Blue = 144  
White = 144

#### DMX Values 97-100

Red = 255  
Green = 251  
Blue = 153  
White = 153

#### DMX Values 101-104

Red = 255  
Green = 175  
Blue = 147  
White = 147

#### DMX Values 105-108

Red = 255  
Green = 138  
Blue = 186  
White = 138

#### DMX Values 109-112

Red = 255  
Green = 147  
Blue = 251  
White = 147

#### DMX Values 113-116

Red = 151  
Green = 138  
Blue = 255  
White = 138

#### DMX Values 117-120

Red = 151  
Green = 138  
Blue = 255  
White = 138

#### DMX Values 121-124

Red = 138  
Green = 169  
Blue = 255  
White = 138

#### DMX Values 125-128

Red = 255  
Green = 255  
Blue = 255  
White = 255

#### DMX Values 129-132

Red = 255  
Green = 206  
Blue = 143  
White = 000

#### DMX Values 133-136

Red = 254  
Green = 177  
Blue = 153  
White = 000

#### DMX Values 137-140

Red = 254  
Green = 192  
Blue = 138  
White = 000

#### DMX Values 141-144

Red = 254  
Green = 165  
Blue = 098  
White = 000

#### DMX Values 145-148

Red = 254  
Green = 121  
Blue = 000  
White = 000

#### DMX Values 149-152

Red = 176  
Green = 017  
Blue = 000  
White = 000

#### DMX Values 153-156

Red = 096  
Green = 000  
Blue = 011  
White = 000

#### DMX Values 157-160

Red = 234  
Green = 139  
Blue = 171  
White = 000x

#### DMX Values 161-164

Red = 224  
Green = 005  
Blue = 097  
White = 000

#### DMX Values 165-168

Red = 175  
Green = 077  
Blue = 173  
White = 000

#### DMX Values 169-172

Red = 119  
Green = 130  
Blue = 199  
White = 000

#### DMX Values 173-176

Red = 147  
Green = 164  
Blue = 212  
White = 000

#### DMX Values 177-180

Red = 088  
Green = 002  
Blue = 163  
White = 000

#### DMX Values 181-184

Red = 000  
Green = 038  
Blue = 086  
White = 000

#### DMX Values 185-188

Red = 000  
Green = 142  
Blue = 208  
White = 000

#### DMX Values 189-192

Red = 052  
Green = 148  
Blue = 209  
White = 000

#### DMX Values 193-196

Red = 001  
Green = 134  
Blue = 201  
White = 000

#### DMX Values 197-200

Red = 000  
Green = 145  
Blue = 212  
White = 000



#### Color Macros Chart

##### DMX Values 201-204

Red = 255  
Green = 000  
Blue = 000  
White = 000

##### DMX Values 205-208

Red = 000  
Green = 255  
Blue = 000  
White = 000

##### DMX Values 209-212

Red = 000  
Green = 083  
Blue = 115  
White = 000

##### DMX Values 213-216

Red = 000  
Green = 097  
Blue = 166  
White = 000

##### DMX Values 217-220

Red = 001  
Green = 100  
Blue = 167  
White = 000

##### DMX Values 221-224

Red = 000  
Green = 040  
Blue = 086  
White = 000

##### DMX Values 225-228

Red = 209  
Green = 219  
Blue = 182  
White = 000

##### DMX Values 229-232

Red = 042  
Green = 165  
Blue = 085  
White = 000

##### DMX Values 233-236

Red = 000  
Green = 046  
Blue = 035  
White = 000

##### DMX Values 237-240

Red = 008  
Green = 107  
Blue = 222  
White = 000

##### DMX Values 241-244

Red = 107  
Green = 156  
Blue = 231  
White = 000

##### DMX Values 245-248

Red = 165  
Green = 198  
Blue = 247  
White = 000

##### DMX Values 249-252

Red = 000  
Green = 000  
Blue = 255  
White = 000

##### DMX Values 253-255

Red = 000  
Green = 000  
Blue = 000  
White = 255