

# VISION3 LIGHTING

## MR16 / LED Dual Staff Light **MODEL PA16** 12V 50W Max. ea., Dual MR16 Halogen 12V 8W Max. ea., Dual COB LED w/ Driver

### Specifications

#### Material

Available in machined 6061-T6 aluminum with 18-8 stainless steel hardware.

#### Head

Machined heads come in two styles: Side Mount and Rear Mount. (See illustration for aiming capability of each head style.)

#### Stem

1" diameter machined stem comes in various stem lengths. Maximum allowable stem length depends on mount option (see **Ordering Information**). Soil type and installation manner may limit safe stem length further. To prevent fixture from toppling over, these factors must be taken into account when choosing stem length or mount type.

#### Knuckle

A Rotate and Lock knuckle (protected under U.S. Patents #6,966,679, #7,108,405 and #7,458,552) mounts each head and allows for adjustability. Double taper design allows fixture to hold position during aiming and ensures a solid lock when tightened. Molded silicone wire seals prevent water entry around wires at knuckles.

#### Cap

Machined caps lock in place with one 18-8 stainless steel set screw, and are sealed to the body with a high temperature silicone O-ring. Regress Lens caps have drain holes for water drainage from top of lens if mounted in the up position. 'Flush Lens' cap styles incorporate a stepped lens to reduce the collection

of water and debris on the lens. All caps accept up to two internal accessories, held in place by a stainless steel clip.

#### Finish

TGIC thermo set polyester powder coat paint available in 14 standard colors. Finish is applied over a corrosion resistant, hexavalent chromium free, RoHS compliant coating. Also available in one additional metal finish: Clear Anodized.

#### Lens

Tempered, clear lenses, secured to caps with a high temperature, UV curing, silicone adhesive.

#### Socket

Two GY-6.35 porcelain sockets with 600V, 250°C, PTFE coated 18 ga leads (for bi-pin lamp options only).

#### Light Engines<sup>12</sup>

**COB LED:** Both COB LED light engine options use industry standard replaceable components for ease of field maintenance and future upgrades and includes features like: field changeable optics (15°, 24°, 36°, 55°, 65°), choice of color temperature (2700K, 3000K, 3500K, 4000K), CRI (80, 90), and an L70 > 40,000 hrs.

**Integral Driver COB LED:** Each head includes a field replaceable low voltage driver in three current choices for 400lm, 700lm, or 1000lm nominal light output. Driver features include: 12VAC input (+/- 10%), ELV and MLV phase dimming (contact V3 for dimmer compatibility), high power factor (> 0.9), and internal

protection (short circuit, overload, thermal, auto-reset).

**Remote Driver COB LED:** Each head requires a 350mA max. Vision3 approved constant current driver (see Ordering Information below for dual driver mount options). Each head has a nominal light output of 1600lm (with 15W max., 350mA driver). Note: see specification sheet of Driver Mount being specified for appropriate driver ratings and inputs.

**MR16 Halogen:** Two 12V bi-pin lamps up to 50W each. Lamp supplied by others.

**Retrofit MR16 LED:** Two 12V 7.5W (600lm) bi-pin retrofit Soraa™ MR16 LED lamps with specially engineered heat sink mounts to ensure proper heat transfer to body. Note: Retrofit LED will overheat without supplied heat sink mount.

#### Certification

CSA tested & certified to US and Canadian safety standards for wet location use in landscape applications.

#### Integral Driver COB LED:

**Integral Driver COB LED available in all configurations.**

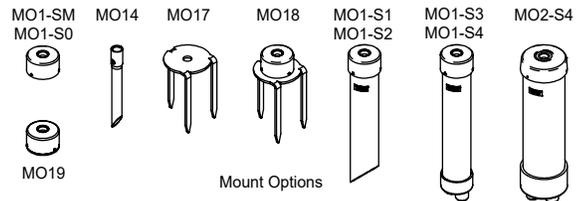
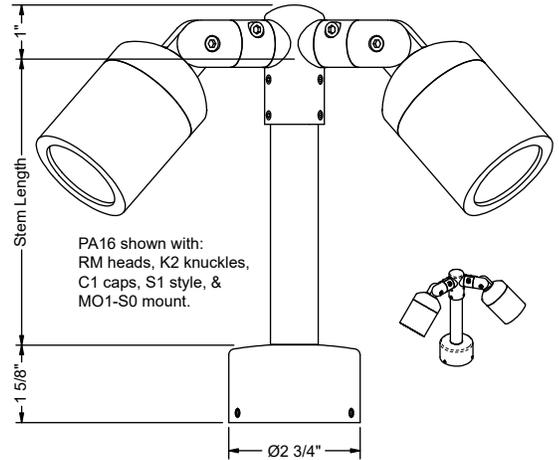
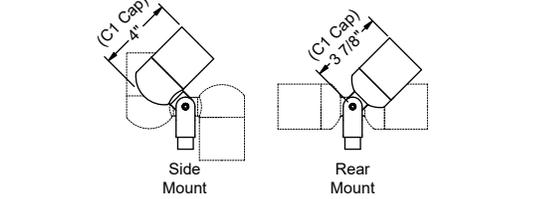
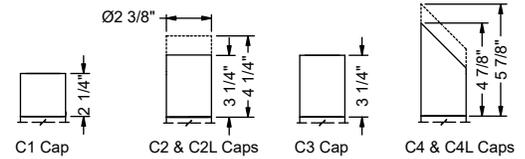
#### Remote Driver COB LED:

**350mA max driver current each head.**

#### MR16 Halogen:

**50W Max. each head.**

All ratings subject to change without notice. See website or contact V3 for most current info.



### Ordering Information

PA16A	Model	Finish	Head	Knuckle <sup>1</sup>	Cap Style <sup>11</sup>	Style	Mount <sup>3,5</sup>	Input Voltage <sup>5</sup>	Light Engine <sup>11,12</sup>	Lens Accy <sup>11</sup>	Louver <sup>11</sup>		
PA16A	Model	Finish	SM - Side Mount RM - Rear Mount	K2 - Rotate & Lock	Standard Lens: C1 - Flush C2 - Regress Lens C2L - Regress Lens, Long C3 - Regress Lamp C4 - 45° Angled C4L - 45° Angled, Long Flush Lens: C1F - Flush C2F - Regress Lens C2LF - Regress Lens, Long C3F - Regress Lamp C4F - 45° Angled C4LF - 45° Angled, Long	S1 - Straight	Stem <sup>2</sup> 3 - 3" 6 - 6" 12 - 12" 18 - 18" 24 - 24" 30 - 30" 36 - 36" 42 - 42" 48 - 48"	Low Voltage Mounts: 12 - 12V Line Voltage Mounts: 120 - 120V 230 - 230V <sup>8</sup> 277 - 277V <sup>8</sup> Driver Mounts: UNV - 120-277V	MR16 Halogen: 0 - None (lamp by others) Retrofit MR16 LED: <sup>6,8</sup> 155 - 7.5W, 600lm, 90CRI, 3000K, 10° 156 - 7.5W, 600lm, 90CRI, 3000K, 25° 157 - 7.5W, 600lm, 90CRI, 3000K, 36° Amber MR16 LED (Turtle Safe): <sup>8</sup> AM1 - 5W, 380lm, 85CRI, 30°, Turtle Safe Amber <sup>7</sup> Integral Driver COB LED: <sup>6,9</sup> LE2 - XXXX - X - XX - XX Lumen Output    CRI    CCT    Optics 0400 - 4W, 400lm    8 - >80    27 - 2700K    15 - 15° 0700 - 8W, 700lm    9 - >90    30 - 3000K    24 - 24° 1000 - 8W, 1000lm    35 - 3500K    36 - 36° 40 - 4000K    55 - 55° 65 - 65°	0 - None L1 - Spread L2 - Linear L3 - Softening	0 - None H1 - Hex		
Notes:	1. K2 knuckle is protected under U.S. Patents #6,966,679, #7,108,405, & #7,458,552.	2. Other stem lengths are available upon request. Contact Vision3.	3. See mount specification sheets for mount details.	4. SN mount option requires that a separate mount be used.	5. Select Input Voltage from options that match selected Mount type.	6. Use only approved 7.5W Retrofit MR16 LED lamps and supplied heat sink mount, otherwise LED will overheat.	7. AM1 Turtle Safe Amber LED can only be specified with 1 lens accessory.	8. Retrofit LED, Amber LED, and Integral Driver COB LED options only available with 12 or 120 Input Voltage options. Only power LED lamp options with approved transformers (contact V3 for mount, transformer, and dimmer compatibility info).	9. Integral Driver COB LED Light Engine options do not require a separately specified remote driver. See specifications above for required voltage input.	10. Remote Driver COB LED Light Engine options must be used with Driver Mounts shown.	11. Cap Style, Light Engine, Lens Accy and Louver options specified will be used for each head. To use different options for each head, contact Vision3.	12. All lumen values cited are nominal lumen output (ideal lumen output of light engine only in lab conditions). Actual fixture output will vary with cap type, material, lens/optics options, and environmental conditions. For more accurate information, see fixture photometry files on website.	13. Specifications, certifications, and ordering information are subject to change. Please check website for latest specification sheets.

Example: PA16A - BN - SM - K2 - C2 - S1 - 12 - MO1-S3-12 - LE2-0400-8-9-24 - 02 - L1 - H1