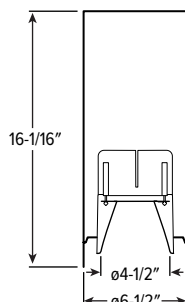


# 6CR<sup>LED</sup> 6.5" Cylinder – Round



CATALOG #: \_\_\_\_\_

TYPE: \_\_\_\_\_

PROJECT: \_\_\_\_\_



TrimLock<sup>®</sup> TwistLock<sup>™</sup>

ORDERING EXAMPLE: 6CR - TL - 16 - L20/835 - OPTIONS - WHT - CONTROL/DIM - UNV - OW - CS - TRIM OPTIONS - CM

HOUSING TRIM MOUNT.

## HOUSING

SERIES	HEIGHT	LUMENS <sup>[1]</sup>	CRI	CCT	OPTIONS	HOUSING FINISH <sup>[2]</sup>
6CR - TL	16 16"	L10 1,000lm	8 80	27 2700K	EM/10WRM/RTS Remote mount 10-watt emergency battery with regressed test switch <sup>[4]</sup>	ALUM Silver sparkle aluminum
TrimLock		L15 1,500lm	9 90	30 3000K	F Fuse	BLK Textured black
		L20 2,000lm		35 3500K	RDB Remote mount control/driver box, galvanized steel <sup>[5]</sup>	BRZ Textured bronze
		L30 3,000lm		40 4000K		NKL Textured nickel
		L40 4,000lm		50 5000K		SLV Textured silver
		L50 5,000lm				WHT Textured white
		L60 6,000lm				
		L70 7,000lm <sup>[3]</sup>				

## CONTROL

See page 3 for ADDITIONAL CONTROL/DRIVER OPTIONS.

– None

AVI-LVFA Avi-on wireless fixture control <sup>[6]</sup>

AWNRR Lutron Athena wireless node integral fixture control, RF only <sup>[7]</sup>

## DRIVER

See page 3 for ADDITIONAL CONTROL/DRIVER OPTIONS.

DIM Dimming driver, 0-10V

DIM1 1% Dimming driver, 0-10V

DA Driver with 12V auxiliary power, without external dimming wires <sup>[8]</sup>

## VOLTAGE

UNV 120-277V

347 347V <sup>[9]</sup>

## TRIM

TRIM TYPE	DISTRIBUTION	REFLECTOR FINISH <sup>[10]</sup>	TRIM OPTIONS
O Open reflector	See page 2 for BEAM ANGLE.	Open Trim Types	AD Diffuse acrylic lens <sup>[14]</sup>
F Open reflector with frosted top diffuser <sup>[11]</sup>	W Wide	CS Clear semi-specular anodize	PD Diffuse 1/8" polycarbonate lens <sup>[15]</sup>
L Flush lens	M Medium <sup>[12]</sup>	SG Satin-glow anodize	
R Regressed lens	N Narrow <sup>[13]</sup>	GD Gold anodize	
		CG Champagne gold anodize	
		PW Pewter anodize	
		SPC Clear specular anodize	
		RG Rose gold anodize	
		WH White texture powder coat	
		BL Black texture powder coat	
			Lens Trim Types
			CS Clear semi-specular powder coat
			WH White texture powder coat
			BL Black texture powder coat
			BZ Bronze texture powder coat
			NK Nickel texture powder coat
			SV Silver texture powder coat
			AL Silver sparkle aluminum

## MOUNTING

### MOUNTING TYPE <sup>[16]</sup>

CM\_\_ Adjustable aircraft cable mount, 24", 48", 96", or 144" only, must specify. Example: 24" cable = CM24 <sup>[17]</sup>

PM\_\_ Pendant mount. Example: 24" pendant = PM24 <sup>[18]</sup>

PC\_\_ Power cord mount. Example: 24" cord = PC24 <sup>[19]</sup>

SM TwistLock surface mount to octagonal J-box

WM Wall mount

## NOTES

<sup>1</sup> Lumen output based on O Trim Type, W Distribution and CS Reflector Finish, 80 CRI/3500K CCT. Actual performance may vary +/-5%. See page 2 for FIXTURE PERFORMANCE DATA.

<sup>2</sup> See page 4 for HOUSING FINISH DETAILS.

<sup>3</sup> O Trim Type only.

<sup>4</sup> Max remote distance 50', including suspension length. Large remote box provided. Specify CEC in the option code when California Energy Commission regulations are required. See page 3 for EMERGENCY BATTERY DETAILS.

<sup>5</sup> Painted driver box available, specify RDB/BLK or RDB/WHT.

<sup>6</sup> DA Driver only. See page 6 for AVI-ON BLUETOOTH WIRELESS CONTROL DETAILS.

<sup>7</sup> DA Driver only. SM Mounting Type installed in remote box, must specify RDB Option.

<sup>8</sup> Avi-on and Lutron Athena Controls only.

<sup>9</sup> Not available with EM batteries, DA, or DMX drivers.

<sup>10</sup> See page 4 for REFLECTOR FINISH DETAILS.

<sup>11</sup> L50 lumen package max.

<sup>12</sup> Not available with lumen stops L50 and higher when specified with flush or regressed trim types.

<sup>13</sup> Not available with lumen stops L50 and higher when specified with flush or regressed trim types.

<sup>14</sup> Not available with O or F Trim Types. W Distribution only.

<sup>15</sup> Not available with O or F Trim Types. W Distribution only.

<sup>16</sup> See page 5 for MOUNTING DETAILS.

<sup>17</sup> Canopy painted white unless specified otherwise. Must specify cord. See page 5 for CORD OPTIONS.

<sup>18</sup> Specify length in 1" increments, minimum 6". Canopy and pendant match fixture housing color unless specified otherwise.

<sup>19</sup> 48" and 96" lengths available. Canopy painted white unless specified otherwise. Must specify cord. See page 5 for CORD OPTIONS.



# 6CR<sup>LED</sup> 6.5" Cylinder – Round

## FEATURES

- Wide range of lumen options for general illumination
- Parallel the performance and style of the Williams downlight collection
- Superior optical control with beams as narrow as 10° and field changeable optics as wide as 65°
- Complement the architectural elements of any space with a multitude of housing, trim and cord finishes
- Limitless application opportunities via pendant, cable, power cord, wall and ceiling mounts
- Ensure a simple and secure installation with TwistLock™ surface mount technology
- Precision-engineered extruded aluminum housing and die-cast aluminum trim face for clean aesthetic
- Low UGR meets LEED and WELL requirements
- Wireless in-fixture control solutions available
- Made Right Here® in the USA

## SPECIFICATIONS

- HOUSING** – Extruded aluminum with die-cast aluminum accent ring.
- FINISH** – Polyester powder coat bonded to phosphate-free, multi-stage pretreated metal. All parts painted after fabrication to facilitate installation, increase efficiency, and inhibit corrosion.
- TRIMLOCK** – Innovative TrimLock® reflector retention system ensures trim remains secure.
- OPEN REFLECTOR** – Low-iridescent anodized aluminum. Clear semi-specular finish standard.
- LENSED TRIM** – Die-cast aluminum frame with micro-prismatic, acrylic lens.
- ELECTRICAL** – High-performance Class 2 C.O.B. LED array. Modular quick-connect plug for easy field-connection of LED light assembly to driver. Reported L70>55,000 hours. Reported L90>55,000 hours. Estimated L70 = 200,000 hours. 50/60 Hz constant current driver.
- MOUNTING** – Surface, cable, pendant, power cord, or wall mount. Indoor applications only. Max weight 9-1/2 lbs.
- LISTINGS** –
  - cCSAus conforms to UL STD 1598 and UL STD 8750. Certified to CAN/CSA STD C22.2 No. 250.0. Suitable for dry and damp locations.
  - Build America, Buy America (BABA) and Buy American Act (BAA) compliant. Request certification at [hew.com/buy-american](http://hew.com/buy-american).
- WARRANTY** – 5-year limited warranty, see [hew.com/warranty](http://hew.com/warranty).

## FIXTURE PERFORMANCE DATA

	DISTRIBUTION	WATTAGE	OPEN REFLECTOR TRIM TYPE		FLUSH LENS TRIM TYPE		REGRESSED LENS TRIM TYPE	
			DELIVERED LUMENS	EFFICACY (lm/W)	DELIVERED LUMENS	EFFICACY (lm/W)	DELIVERED LUMENS	EFFICACY (lm/W)
L10	W	9.0	1027	114	674	75	660	73
	M	9.0	999	111	895	99	895	99
	N	9.0	1000	111	914	102	882	98
L15	W	13.9	1466	105	994	72	972	70
	M	13.9	1471	106	1319	95	1319	95
	N	13.9	1473	106	1347	97	1300	94
L20	W	19.8	2005	101	1352	68	1323	67
	M	19.8	2002	101	1794	91	1795	91
	N	19.8	2004	101	1833	93	1769	89
L30	W	27.8	2985	107	2022	73	1979	71
	M	27.8	2900	104	2683	97	2685	97
	N	27.8	2734	98	2741	99	2646	95
L40	W	38.0	3979	105	2695	71	2638	69
	M	38.0	3865	102	3577	94	3579	94
	N	38.0	3644	96	3654	96	3527	93
L50	W	45.2	5124	113	3364	74	3292	73
	M	45.2	4956	110	–	–	–	–
	N	45.1	4818	107	–	–	–	–
L60	W	50.4	6041	120	4074	81	3986	79
	M	50.4	5842	116	–	–	–	–
	N	50.4	5679	113	–	–	–	–
L70	W	61.7	7044	114	–	–	–	–
	M	61.7	6812	110	–	–	–	–
	N	61.7	6623	107	–	–	–	–

- Photometrics tested in accordance with IESNA LM-79. Results based on CS (O Trim Type) or WH (L and R Trim Types) Reflector Finish, W Distribution, 80 CRI/3500K CCT, average wattage for 120V input, and 25°C ambient temperature. Actual performance may vary +/-5%.
- To calculate lumen output in emergency mode, multiply the battery wattage by the efficacy.
- Use multiplier tables to calculate additional options.

## MULTIPLIER TABLES

	COLOR TEMPERATURE	
	CCT	CONVERSION FACTOR
80 CRI	2700K	0.92
	3000K	0.98
	3500K	1.00
	4000K	1.01
	5000K	1.02
90 CRI	2700K	0.76
	3000K	0.79
	3500K	0.82
	4000K	0.84
	5000K	0.88

TRIM OPTIONS	
CATALOG NUMBER	CONVERSION FACTOR
F	0.75
AD	0.85
PD	0.85

## BEAM ANGLE

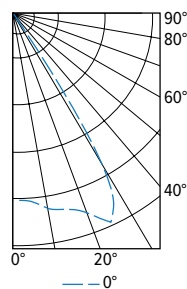
	TRIM TYPE <sup>(2)</sup>			
	O	F	L	R
W	65°	60°	50°	50°
M	45°	50°	35°	30°
N	10°	25°	25°	25°

	REFLECTOR FINISH	
	CATALOG NUMBER	CONVERSION FACTOR
O TRIM	CS	1.00
	SG <sup>(1)</sup>	0.92
	GD	0.93
	CG	0.96
	PW	0.86
	SPC	1.02
	RG	0.88
R TRIM	WH <sup>(1)</sup>	0.89
	BL <sup>(1)</sup>	0.47
	WH	1.00
	CS <sup>(1)</sup>	0.98
	BL <sup>(1)</sup>	0.79
	BZ <sup>(1)</sup>	0.76
	NK <sup>(1)</sup>	0.81
	SV <sup>(1)</sup>	0.81
	AL <sup>(1)</sup>	0.86

- Distribution will also be affected, consult factory.
- Beam angle based on CS or WH Reflector Finish.

## PHOTOMETRY

6CR-TL-16-L20-835-DIM-UNV-OW-CS Total Luminaire Output: 2005 lumens; 19.8 Watts | Efficacy: 101.0 lm/W | 80 CRI; 3500K CCT



CANDLEPOWER DISTRIBUTION	VERTICAL ANGLE	HORIZONTAL ANGLE	ZONAL LUMENS
		0°	
	0	1810	
	5	1864	178
	15	1960	556
	25	2231	1033
	35	307	193
	45	44	35
	55	11	10
	65	1	1
75	0	0	
85	0	0	
90	0		

LUMEN SUMMARY	ZONE	LUMENS	% FIXTURE
	0 - 40	1959	98
	0 - 60	2004	100
	0 - 90	2005	100
	0-180	2005	100

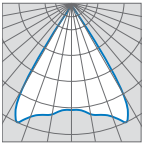
PHOTOMETRY CONTINUED ON NEXT PAGE.



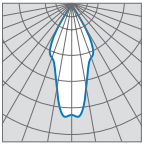
# 6CR LED

## 6.5" Cylinder – Round

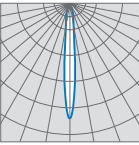
### OPEN (O)



65° Wide

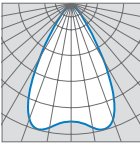


45° Medium

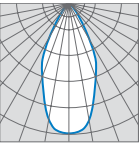


10° Narrow

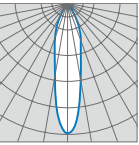
### OPEN TOP DIFFUSER (F)



60° Wide

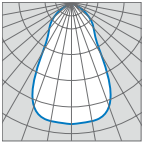


50° Medium

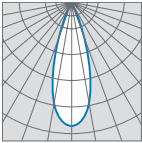


25° Narrow

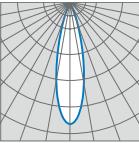
### FLUSH (L)



50° Wide

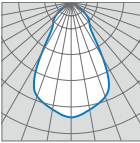


35° Medium

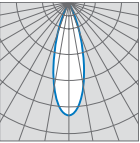


25° Narrow

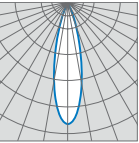
### REGRESSED (R)



50° Wide



30° Medium



25° Narrow

### ADDITIONAL CONTROL/DRIVER OPTIONS

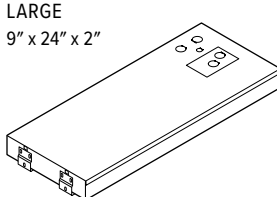
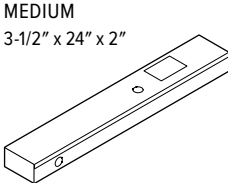
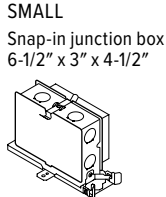
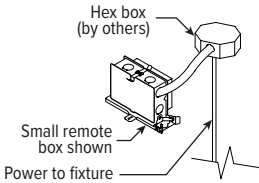
Lumen restrictions apply: L50 max DALI driver, L40 max for DMX and LDE1 drivers, L15 min to L60 max for DIM LINE driver.

CONTROL/DRIVER	DESCRIPTION	RDB DETAILS BY LUMEN STOP									
		L10	L15	L20	L30	L40	L50	L60	L70	w/EM	
DIM	Dimming driver prewired for 0-10V low voltage applications	OIS	OIS	OIS	OIS	OIM	OIM	OIM	OIM	RIL	
DIM1	1% dimming driver prewired for 0-10V low voltage applications	OIS	OIS	OIS	OIS	OIM	OIM	OIM	OIM	RIL	
DIM LINE	Line voltage dimming driver (TRIAC and ELV compatible at 120V only)	—	OIS	OIS	OIS	OIM	OIM	OIM	—	RIL	
DMX	0.1% dimming driver for DMX controls	RIM	RIM	RIM	RIM	RIM	—	—	—	RIL	
DALI	DALI dimming driver	OIM	OIM	OIM	OIM	OIM	OIM	—	—	RIL	
LDE1	Lutron Hi-lume 1% EcoSystem dimming LED driver	OIM	OIM	OIM	OIM	OIM	—	—	—	RIL	
AVI-LVFA/DA	Avi-on wireless fixture control for use with driver with 12V auxiliary power	OIS	OIS	OIS	OIS	OIM	OIM	OIM	OIM	RIL	
AWNDR/DA <sup>(1)</sup>	Lutron Athena wireless node integral fixture control, RF only, for use with driver with 12V auxiliary power	OIS	OIS	OIS	OIS	OIM	OIM	OIM	OIM	RIL	

<sup>1</sup> RDB Option required when specified with SM Mounting Type, size follows table above.

### REMOTE MOUNT DETAILS

Max remote distance is 50' including suspension length, connection by others. Must be room-side accessible for maintenance.



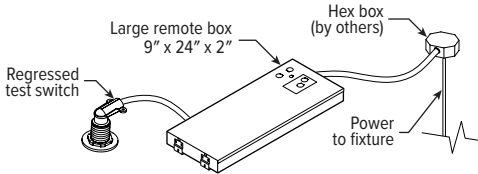
REMOTE MOUNT KEY	
OIS	RDB Optional, Small Box
OIM	RDB Optional, Medium Box
RIM	RDB Required, Medium Box
RIL	RDB Required, Large Box

### EMERGENCY BATTERY DETAILS



Regressed test switch  
ø1-3/4"

Max remote distance is 50' including suspension length, connection by others.



### TRIMLOCK DETAILS

#### TWIST



#### PULL

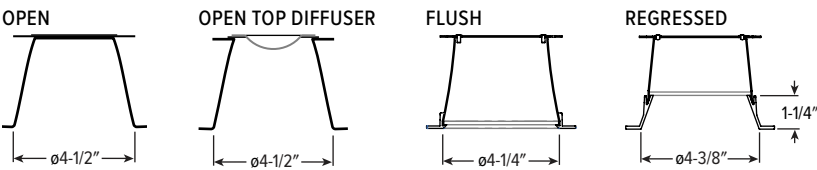


#### RELEASE



# 6CR<sup>LED</sup> 6.5" Cylinder – Round

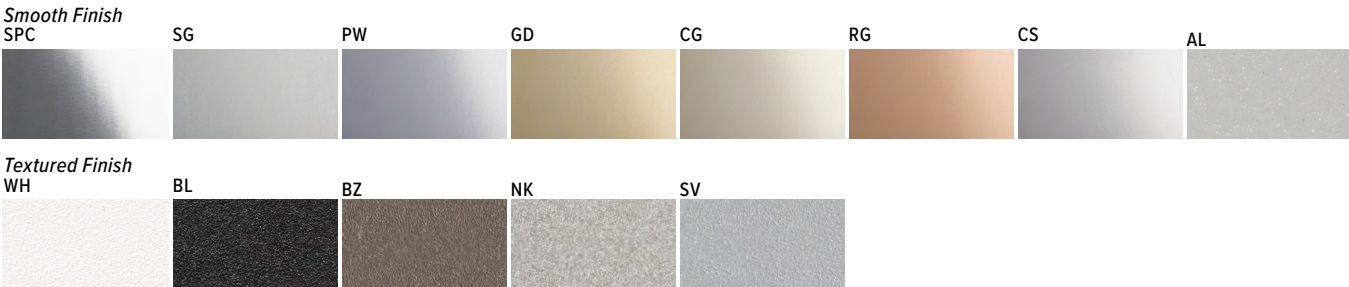
## TRIM TYPE DETAILS



## HOUSING FINISH DETAILS



## REFLECTOR FINISH DETAILS



SEE NEXT PAGE FOR MOUNTING DETAILS.



# 6CR LED 6.5" Cylinder – Round

## MOUNTING DETAILS

### PENDANT MOUNT (PM\_\_)

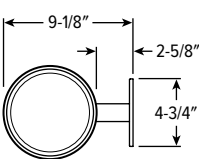


- Provided with:
- 38° Swivel canopy
  - 3/8" IPS Threaded stem
  - Specify length of stem, 6" minimum, 24" default length

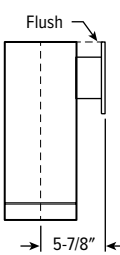
### WALL MOUNT (WM)



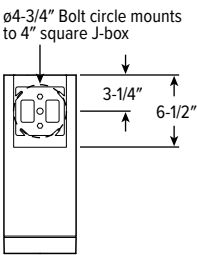
#### TOP VIEW



#### SIDE VIEW



#### BACK VIEW



### SURFACE MOUNT (SM)



- TwistLock™**
- Simple lift-and-twist mounting secures fixture to J-box.

### CABLE MOUNT (CM\_\_)



- Provided with:
- Adjustable length aircraft cable, must specify length in 24", 48", 96", or 144" inches.
  - 18-gauge cord, see Cord Options for ordering info.
  - One 5" canopy
  - T-bar clip with 1/4-20 stud
  - Hard ceiling anchor provided by others

### POWER CORD MOUNT (PC)



- Provided with:
- 18-gauge cord, see Cord Options for ordering info.
  - One 5" canopy
  - Power cord mounting adaptor

## CORD OPTIONS

Must specify cord when cable and power cord mounting.

ORDERING EXAMPLE: S2438/W				
CORD TYPE	LENGTH	# CONDUCTORS	WIRE SIZE	COLOR
S Straight	24 24"	3 3	8 18-gauge	Standard
	48 48"	4 4		/W White
	96 96"	5 5		/B Black
		6 6		Braided <sup>(1)</sup>
				/WH White
				/BL Black
				/BR Brass
				/AE Aegean Blue
				/RE Red
				/SV Silver
				/GU Gunmetal
				/NK Nickel
				/GR Gray

<sup>1</sup> (5) conductors cord only.

### COLOR DETAILS

Additional colors may be available, consult factory.



SEE NEXT PAGE FOR CONTROL DETAILS



# 6CR<sup>LED</sup> 6.5" Cylinder – Round

## AVI-ON BLUETOOTH WIRELESS CONTROL DETAILS

### FEATURES

#### Simple

- Gateway-free distributed control
- Contractor friendly installation
- Occupancy/vacancy/daylight sensing

#### Scalable

- Virtually unlimited network size
- Spans small offices to large warehouses
- Flexible control strategies

#### Secure

- Optional cloud connectivity
- UL IoT platinum security rating
- DLC 5.0 compliant

### COMMISSIONING & INSTALLATION TOOLS

Avi-on mobile apps provide intuitive, quick installation and commissioning. Pro tools are available to qualified installers. Live commissioning training and on-site or remote support by Avi-on must be ordered separately through Avi-on.



Commissioning  
Mobile App

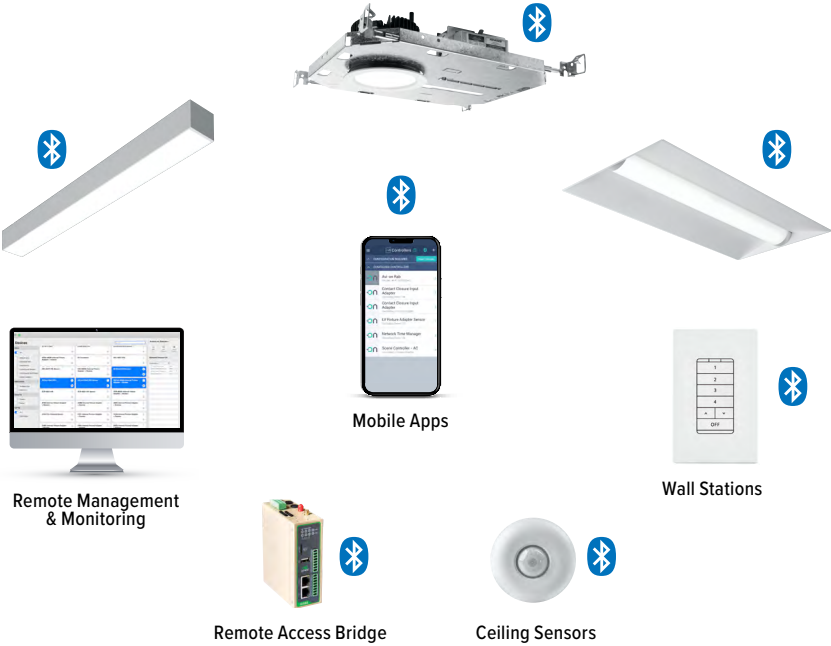


Zone Scanner  
Web App



Commissioning  
Pro App

### SYSTEM COMPONENTS



The Bluetooth® word mark and logos are registered trademarks owned by Bluetooth SIG, Inc. and any use of such marks by Avi-on is under license. Other trademarks and trade names are those of their respective owners.

### ACCESSORIES

WALL STATIONS	
AVI-B-2401AC-1	Scene controller - buttons numbered 1-4 and up/down/off, 120-277VAC
AVI-B-2402BAT-1	Scene controller - buttons numbered 1-4 and up/down/off, battery powered
AVI-B-2401AC-2	Dimmer with presets - buttons with percentages and up/down/off, 120-277VAC
AVI-B-2402BAT-2	Dimmer with presets - buttons with percentages and up/down/off, battery powered
AVI-B-2401AC-3	Two button control on/off or hold to dim up/down, 120-277VAC
AVI-B-2402BAT-3	Two button control on/off or hold to dim up/down, battery powered

NETWORK	
AVI-RAB-LTE	Remote access bridge
AVI-NTM	Network time manager with battery backup
CEILING MOUNT SENSORS	
AVI-KIT-SEN-DUCM	PIR motion and ultrasonic sensor kit
AVI-KIT-SEN-ICM	PIR motion and photocell sensor kit

For load controllers and additional accessory info, see [hew.com/avi-on](http://hew.com/avi-on)

