

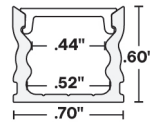
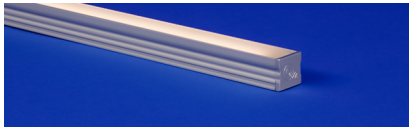


# ESSENTIALS TORQ-FLAT (01) WARM DIM APPLICATIONS

## 24VDC Linear Fixtures - Surface & Recessed



Declare.



- Surface mount linear fixture
- Choose from diffused, polar, frosted, clear 60°, or clear 70° lens options for varying diode visibility and beam angles
- Offered with an optional mounting tray
- Features all wire feed options
- Mounting options include stainless steel clips, magnets, and low-profile magnet mounts
- Features painted end caps to match extrusion finish
- Suitable for installation in the storage area of a clothes closet when specified with LEDs at 4.0 watts or less per foot per NEC regulations
- Used in applications to provide warmer CCTs as the light is dimmed
- When using DALI and DMX power supplies, LED wattage must be doubled

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
PRODUCT	WATTS/FT	CCT	RATED	EFFICIENCY	LENS	EXTERNAL LOUVER	WIRE INPUT/ OUTPUT	CONNECTOR / WIRE IN	CONNECTOR / WIRE OUT	WIRE COLOR	WIRE TYPE	MOUNTING	FINISH	LENGTH (IN)	EXACT/ OPTIMAL

Sample Part Number: **TQ1WD-6.0-19/30-DRY-WO-DF-P1-BW-BW-BK-CL2-SST-BK-48"-E**

<div>1</div> <div>PRODUCT</div> <div><div>TQ1WD</div><div>LED engine is built with 2 wires suitable for phase dimming control. See following pages for compatible power supplies.</div></div>	<div>2</div> <div>WATTS/FT</div> <div><div>6.06.0W/ft</div><div>1.5HE1.5W/ft HE 2.5HE2.5W/ft HE 4.0HE4.0W/ft HE</div><div>1.5HE1.5W/ft HE 2.5HE2.5W/ft HE</div></div>	<div>3</div> <div>CCT</div> <div><div>19/271900K/2700K 19/301900K/3000K</div><div>20/272000K/2700K 20/302000K/3000K 27/402700K/4000K 27/552700K/5500K</div><div>24/302400K/3000K 27/402700K/4000K</div></div>	<div>4</div> <div>RATED</div> <div><div>DRYIP20</div><div>DRYIP20</div><div>DMPIP54</div></div>	<div>5</div> <div>EFFICIENCY</div> <div><div>STDStandard WOWhite Optics</div><div>WhiteOptics - Internal coating, greater lumen output</div></div>	<div>6</div> <div>LENS</div> <div><div>DFDiffused PRPolar FRFrosted CL/60Clear 60° CL/70Clear 70°</div><div>For representation of LED visibility, see Diode Visibility section on following pages. For beam angles, see Photometric Performance section on following pages</div></div>	<div>7</div> <div>EXTERNAL LOUVER</div> <div><div>L1-WHWhite Plastic L1-BKBlack Plastic N/ANo Louver</div><div>Louvers are shipped separately and require field assembly</div></div>
<div>8</div> <div>WIRE INPUT/OUTPUT</div> <div><div>S1Single 1 (Input only) - End Feed S2Single 2 (Input only) - Bottom Feed S3Single 3 (Input only) - Left Side Feed S4Single 4 (Input only) - Right Side Feed</div><div>For continuous mounting, consider bottom or side feed</div><div>P1Pass Through 1 (Input/output) - End Feed P2Pass Through 2 (Input/output) - Bottom Feed P3Pass Through 3 (Input/output) - Left Side Feed P4Pass Through 4 (Input/output) - Right Side Feed</div><div>For continuous mounting, consider bottom or side feed</div></div>	<div>9</div> <div>CONNECTOR/WIRE IN</div> <div><div>BWBare Wire (Standard 24") BRLBarrel CON6Connector 6" CON24Connector 24"</div><div>BRL only available with TQ1WD Connector/Wire In not needed to specify product. Typical selection is BW. BW: Standard length is 24", Max length is 120". Request custom length by writing in part number next to BW (example: BW48)</div><div>BWBare Wire (Standard 24") BRLBarrel CON6Connector 6" CON24Connector 24"</div><div>BRL only available with TQ1WD Connector/Wire In not needed to specify product. Typical selection is BW. BW: Standard length is 24", Max length is 120". Request custom length by writing in part number next to BW (example: BW48)</div></div>	<div>10</div> <div>CONNECTOR/WIRE OUT</div> <div><div>CLSClosed End (No feed)</div><div>BWBare Wire (Standard 24") BRLBarrel CON6Connector 6" CON24Connector 24"</div><div>BRL only available with TQ1WD Connector/Wire Out not needed to specify product. Typical selection is CLS or BW. BW: Standard length is 24", Max length is 120". Request custom length by writing in part number next to BW (example: BW48)</div></div>	<div>11</div> <div>WIRE COLOR</div> <div><div>WHWhite BKBlack N/AFor Barrel</div><div>wet barrel only available in black</div></div>			
<div>12</div> <div>WIRE TYPE</div> <div><div>CL2Class 2 CL2PPlenum Rated N/AFor Barrel</div><div>CL2P only available with bare wire leads (BW)</div></div>	<div>13</div> <div>MOUNTING</div> <div><div>SSTStainless Steel M4Low Profile Magnet MGMagnet</div></div>	<div>14</div> <div>FINISH</div> <div><div>STSatin BKBlack BZBronze CUCustom</div></div>	<div>15</div> <div>LENGTH (IN)</div> <div><div>Fixture length min 12", max 98.43" not including end caps. Tolerance +0 – 1/8". Consult factory for lengths under 12".</div></div>	<div>16</div> <div>EXACT/OPTIMAL</div> <div><div>OOptimal Illumination EExact Specified Length</div><div>Exact fixtures are the exact length specified +0 – 1/8". Optimal fixtures' length is rounded down with illumination end to end. See Exact/Optimal Fixture Length charts.</div></div>		

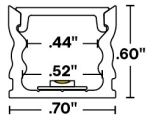
5 year warranty | Warranty only valid with QTL power supplies | Field modifications void warranty | Data subject to change, all data has +/- 5% tolerance



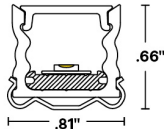
# ESSENTIALS TORQ-FLAT (01) WARM DIM APPLICATIONS

24VDC Linear Fixtures - Surface & Recessed

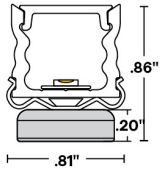
## 1 PRODUCT - DIMENSIONS



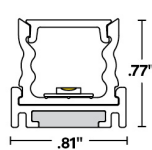
Profile



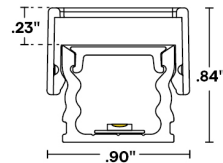
Profile with flat lens, stainless steel mounting clip, and mounting tray



Profile with flat lens and magnet mounting clip



Profile with flat lens and low profile magnet



Profile with plastic louver

## 2 DELIVERED LUMENS

[Calculated L70 = 70000 hrs]  
Tested with TQ1WD-6.0-30-DRY-STD

	3000K	
	LM/FT	CRI
60	394	97
70	417	97
FR	376	97
PR	334	97
DF	281	97

[Calculated L70 = 70000 hrs]  
Tested with TQ1DW-\*\*-30-DRY-STD

	1.5HE W/FT		2.5HE W/FT		4.0HE W/FT	
	LM/FT	CRI	LM/FT	CRI	LM/FT	CRI
60	125	98	198	98	307	98
70	127	98	200	98	311	98
FR	123	98	194	98	302	98
PR	110	98	174	98	271	98
DF	100	98	157	98	245	98

[Calculated L70 = 70000 hrs]  
Tested with TQ1WD-6.0-30-DRY-WO

	6.0 W/FT	
	LM/FT	CRI
60	407	97
70	424	97
FR	399	97
PR	361	97
DF	320	97

[Calculated L70 = 70000 hrs]  
Tested with TQ1DW-\*\*-30-DRY-WO

	1.5HE W/FT		2.5HE W/FT		4.0HE W/FT	
	LM/FT	CRI	LM/FT	CRI	LM/FT	CRI
60	137	98	217	98	338	98
70	143	98	226	98	352	98
FR	135	98	213	98	331	98
PR	122	98	192	98	299	98
DF	108	98	171	98	266	98

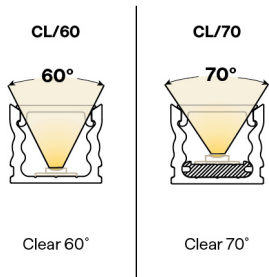
## 6 DIODE VISIBILITY



DF - Diffused lens  
PR - Polar lens  
FR - Frosted lens  
CL - Clear lens

## PHOTOMETRIC PERFORMANCE

Nominal beam spread shown, beam spread varies based on light engine. For more detailed information, see photometric data.





# ESSENTIALS TORQ-FLAT (01) WARM DIM APPLICATIONS

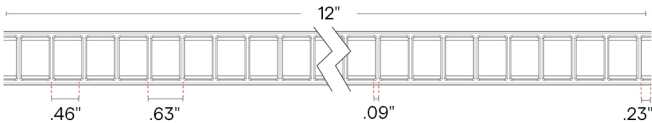
## 24VDC Linear Fixtures - Surface & Recessed

### TEMPERATURE RATINGS

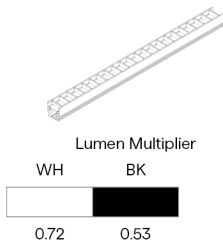
		DW 1.5 HE W/FT						DW 2.5 HE W/FT				DW 4.0 HE W/FT			
		WD 6.0 W/FT		Q-Tran power supply other than DALI, DMX		DALI, DMX, or non-Q-Tran power supply		Q-Tran power supply other than DALI, DMX		DALI, DMX, or non-Q-Tran power supply		Q-Tran power supply other than DALI, DMX		DALI, DMX, or non-Q-Tran power supply	
		Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
DRY	Ambient Operating Temp - Surface	-4°F	120°F	-4°F	145°F	-4°F	135°F	-4°F	140°F	-4°F	120°F	-4°F	130°F	-4°F	110°F
DMP	Ambient Operating Temp - Surface	**	**	-4°F	140°F	-4°F	130°F	-4°F	135°F	-4°F	115°F	**	**	**	**

### 7 EXTERNAL LOUVER

PLASTIC

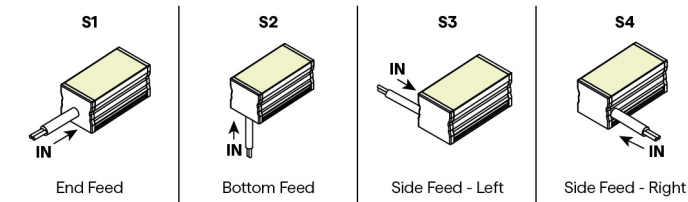


L1-XX

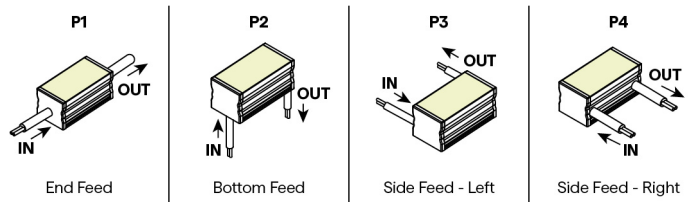


### 8 WIRE INPUT/OUTPUT

SINGLE (Input only)



PASS THROUGH (Input/Output)

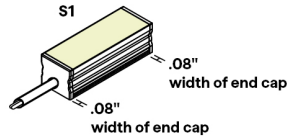




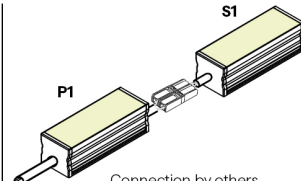
# ESSENTIALS TORQ-FLAT (01) WARM DIM APPLICATIONS

24VDC Linear Fixtures - Surface & Recessed

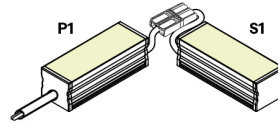
## CONFIGURATION OPTIONS



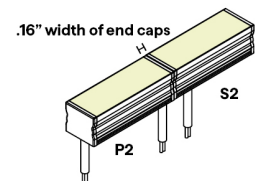
Single End Feed



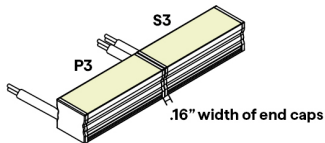
Connection by others  
Non-Continuous End Feed



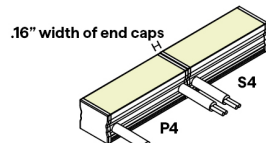
Connection by others  
Non-Continuous Corner Feed



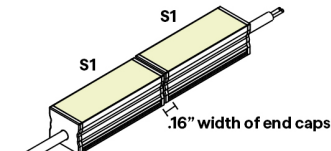
Continuous Bottom Feed



Continuous Side Feed - Left



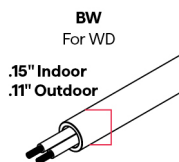
Continuous Side Feed - Right



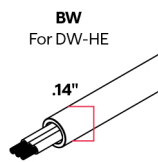
Continuous End to End Feed

## 9 / 10 CONNECTOR/WIRE - IN/OUT

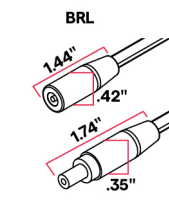
Connector/Wire In or Out not needed to specify product. Standard configuration is BW for Wire In and CLS for Wire out



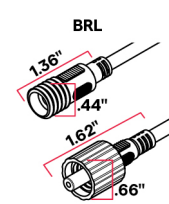
Bare Wire 24"  
22 AWG



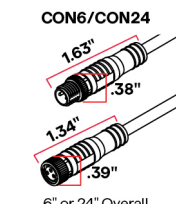
Bare Wire 24"  
22 AWG



Barrel 6" - DRY/DMP |  
22 AWG



Barrel 6" - WET | 22 AWG



6" or 24" Overall  
Wire Connector | 22 AWG  
IP67 Rated, UL Listed

## 11 WIRE COLOR



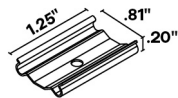


# ESSENTIALS TORQ-FLAT (01) WARM DIM APPLICATIONS

24VDC Linear Fixtures - Surface & Recessed

## 13 MOUNTING

SST



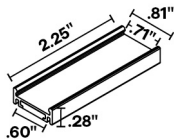
Stainless Steel Clip

2 clips provided for 4' or less; 4 clips provided for greater than 4'

To order separately use SST-01

Each clip comes with a #4 x 5/8" Flat Head SS

M4

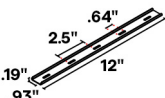


Low Profile Magnet

One M4 provided per foot.

To order separately use MG-04

MMA-04



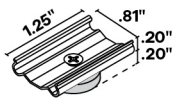
Magnet Mount Accessory for M4

Sold separately, to order use MMA-04

Each bracket comes with 2 #6 x 5/8" Flat Head SS

Required when mounting to a non-magnetic surface

MG



Magnet Clip

One MG provided per foot

To order separately use MG-01

## 14 FINISH



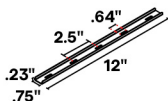
Satin

Black

Bronze

Custom color available

MMA-01



Magnet Mount Accessory of MG-01

Sold separately, to order use MMA-01

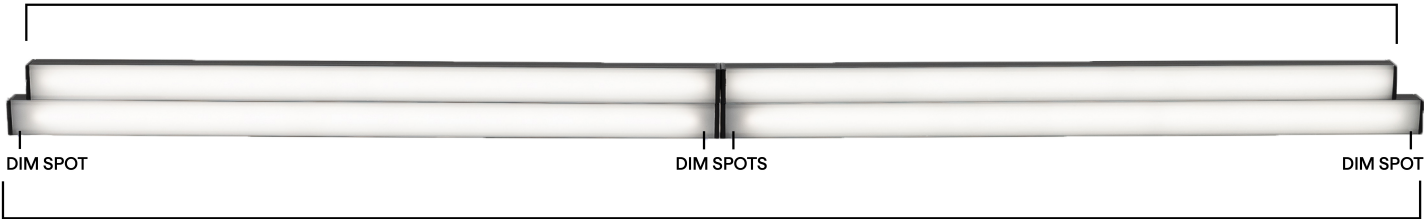
Each bracket comes with 2 #6 x 5/8" Flat Head SS

Required when mounting to a non-magnetic surface

## 16 EXACT/OPTIMAL FIXTURE LENGTH

Exact fixtures are the exact length specified. Optimal fixtures' length is rounded down based on LED cut points to allow the fixture to be illuminated end to end. For runs with multiple fixtures that need to fill a specific length, it's recommended to order all optimal fixtures with an exact fixture at the end of the run.

Optimal Fixtures



Exact Fixtures



# ESSENTIALS TORQ-FLAT (01) WARM DIM APPLICATIONS

24VDC Linear Fixtures - Surface & Recessed

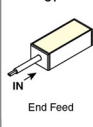
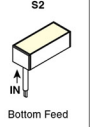
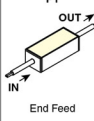
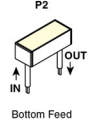
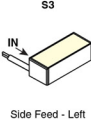
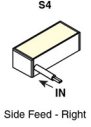
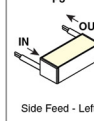
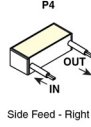
## WD, DW-HE DRY, DMP LENGTHS BY INCH

Available in any length in between 12" and 98.43", chart below shows example lengths. Exact fixtures are the length specified. Optimal fixtures' length is rounded down with illumination end to end. All fixtures' tolerance is +0 - 1/8". Consult factory for lengths under 12".

### EXACT LENGTH

Requested Length	Potential dim spot on either end of fixture
12"	1"
13"	0.5"
14"	1"
15"	0.5"
16"	1"
17"	0.5"
18"	1"
19"	0.5"
20"	1"
21"	0.5"
22"	1"
23"	0.5"
24"	1"
36"	1"
48"	1"
60"	1"
72"	1"
84"	1"
96"	1"

### OPTIMAL LENGTH: highlighted rows are closest to requested nominal length

Requested Nominal Length	S1 & S2  S2: Bottom Feed 	P1 & P2  P2: Bottom Feed 	S3 & S4  S4: Side Feed - Right 	P3 & P4  P4: Side Feed - Right 
12"	10.41"	10.66"	10.26"	10.36"
13"	12.41"	12.66"	12.26"	12.36"
14"	12.41"	12.66"	12.26"	12.36"
15"	14.41"	14.66"	14.26"	14.36"
16"	14.41"	14.66"	14.26"	14.36"
17"	16.41"	16.66"	16.26"	16.36"
18"	16.41"	16.66"	16.26"	16.36"
19"	18.41"	18.66"	18.26"	18.36"
20"	18.41"	18.66"	18.26"	18.36"
21"	20.41"	20.66"	20.26"	20.36"
22"	20.41"	20.66"	20.26"	20.36"
23"	22.41"	22.66"	22.26"	22.36"
24"	22.41"	22.66"	22.26"	22.36"
36"	34.41"	34.66"	34.26"	34.36"
48"	46.41"	46.66"	46.26"	46.36"
60"	58.41"	58.66"	58.26"	58.36"
72"	70.41"	70.66"	70.26"	70.36"
84"	82.41"	82.66"	82.26"	82.36"
96"	94.41"	94.66"	94.26"	94.36"

## COMPATIBLE POWER SUPPLIES

See power supplies cut sheets for more information. Data subject to change, all data has +/- 5% tolerance.

DIM TO LEVEL	INDOOR	
	DW-HE Warm Dim Applications	WD
0.1%	QT-CAB-eLED+WD QT-CAB-eLED+WD-AWN QTM-eLED+WD QTM-eLED+WD-AWN QZ-DW	QT-CAB-QZ-PH/0-10V QT-CAB-eLED+0-10V QTM-eLED+0-10V QZ-BOWTIE+DIMMER QZ-DMX QZ-PH/0-10V QZ-STICK-PH/0-10V QZLP
1%	QT-CAB-eLED+DALI-DT6 QT-CAB-eLED+DALI-DT8 QT-CAB-eLED+DALI-DT8-AWN QTM-eLED+DALI-DT6 QTM-eLED+DALI-DT8 QTM-eLED+DALI-DT8-AWN QZ-DALI-DT8	QT-CAB-eLED+DALI-DT6 QT-CAB-eLED+DALI-DT6-AWN QTM-eLED(E) QTM-eLED+DALI-DT6 QTM-eLED+DALI-DT6-AWN QZ-DALI-DT6
10%	Non-Dim Power Supply with WD App Dongle	Non-Dim Power Supply with SW App Dongle













# ESSENTIALS TORQ-FLAT (01) WARM DIM APPLICATIONS

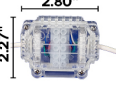





24VDC Linear Fixtures - Surface & Recessed

DIMMING PROTOCOL	INDOOR	
	DW-HE Warm Dim Applications	WD
Phase	QZ-DW	QT-CAB-QZ-PH/0-10V QTM-eLED(E) QZ-BOWTIE+DIMMER QZ-PH/0-10V QZ-STICK-PH/0-10V QZLP
0-10V	QT-CAB-eLED+WD QT-CAB-eLED+WD-AWN QTM-eLED+WD QTM-eLED+WD-AWN QZ-DW	QT-CAB-QZ-PH/0-10V QT-CAB-eLED+0-10V QTM-eLED+0-10V QZ-PH/0-10V QZ-STICK-PH/0-10V QZLP
Lutron Athena	QT-CAB-eLED+DALI-DT8-AWN QT-CAB-eLED+WD-AWN QTM-eLED+DALI-DT8-AWN QTM-eLED+WD-AWN	QT-CAB-eLED+DALI-DT6-AWN QTM-eLED+DALI-DT6-AWN
ECO System		QTM-eLED(E)
DMX If using DW LED, wattage must be doubled		QZ-DMX
DALI-2: DT6 If using DW LED, wattage must be doubled	QT-CAB-eLED+DALI-DT6 QTM-eLED+DALI-DT6	QT-CAB-eLED+DALI-DT6 QT-CAB-eLED+DALI-DT6-AWN QTM-eLED+DALI-DT6 QTM-eLED+DALI-DT6-AWN QZ-DALI-DT6
DALI-2: DT8 If using DW LED, wattage must be doubled	QT-CAB-eLED+DALI-DT8 QT-CAB-eLED+DALI-DT8-AWN QTM-eLED+DALI-DT8 QTM-eLED+DALI-DT8-AWN QZ-DALI-DT8	
SCENE App Dimmed	Non-Dim Power Supply with WD App Dongle	Non-Dim Power Supply with SW App Dongle

## COMPATIBLE MOUNTING ACCESSORIES

<b>HINGE - HMB-M</b>  1.41" .71" Adjustable mounting bracket - Medium	<b>HINGE - HMB-L</b>  1.46" 1.29" Adjustable mounting bracket - Large	<b>HINGE - HMB-XL</b>  1.46" 4" Adjustable mounting bracket - XLarge	<b>Q-PIVOT</b>  .75" 1.03" Small mounting accessory	<b>Q-ANGLE</b>  2.23" 1.38" Adjustable mounting accessory	<b>VHB</b>  Double sided mounting tape	<b>NJ-MEDIUM</b>  J Mounting Bracket	<b>NJ-LARGE</b>  J Mounting Bracket	<b>NU-LARGE</b>  U Mounting Bracket	<b>SD-J-LARGE</b>  J Mounting Bracket
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## COMPATIBLE WIRING ACCESSORIES

<b>Q-mini-J5</b>  2.80" 2.27" UL Listed, miniature junction box, DRY/DMP (WET rated with silicone)	<b>BARREL-EXT</b>  8ft barrel cable extender DRY ONLY	<b>BARREL FOUR-FER</b>  Splits lead from one to four LED Barrel connector fixtures, DRY/DMP	<b>CON120-EXT</b>  10ft Con cable extender DRY/DMP/WET	<b>CON FOUR-FER</b>  Splits lead from one to four LED Con connectors DRY/DMP/WET	<b>CON M - BARREL F</b>  Male con to barrel cable adaptor DRY/DMP
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# ESSENTIALS TORQ-FLAT (01) WARM DIM APPLICATIONS

24VDC Linear Fixtures - Surface & Recessed

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## COMPATIBLE CONTROL ACCESSORIES

### SCENE APP DONGLE



Wi-Fi or Bluetooth  
Connectivity