ACUVA

IDEAL FOR OEM PoU

STRIKE

Our ***Strike*** platform of high-performance UV-LED modules features Acuva's patented ***IntenseBeam***™ Technology and an advanced design that enables efficient disinfection and sterilization of drinking water for PoU applications and OEM integration.

Key Highlights

Proven Technology
Combines the reliable technologies of UV disinfection and LED lights

Ideal Form-Factor
Enables convenient integration and installation

Eco-Friendly Solution
Chemical-free water treatment without risk of mercury contamination from UV lamps

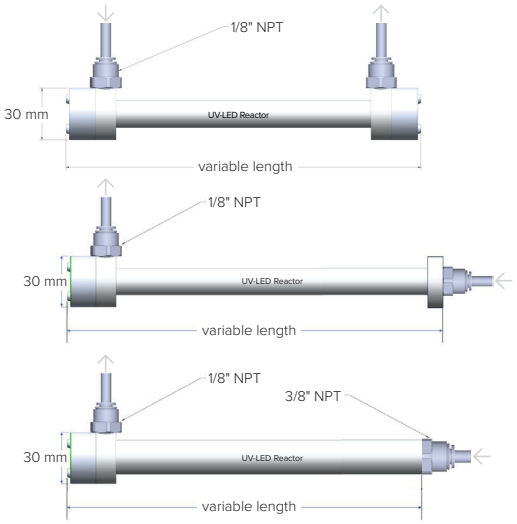
Safe & Convenient
Provides access to safe drinking water with ultra-low maintenance requirements

Perfect Solution for OEMs

Flexible Design

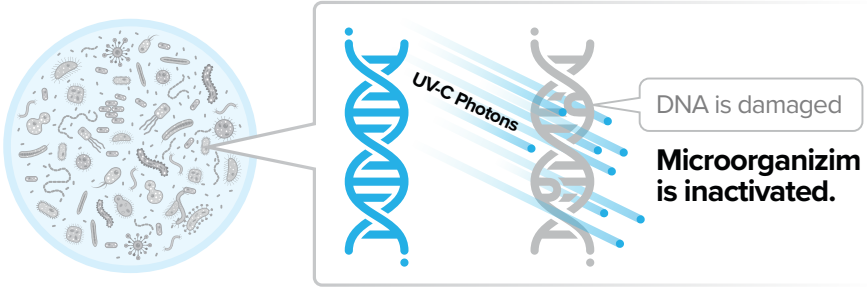
Available in one or two LED configurations, *Strike* can be customized to suit your specific disinfection and flow rate requirements.

Our patented *Direct Cooling* technology does not require any moving parts or separate heat sink, enabling a compact design with the smallest possible form-factor, making it ideal for appliance integration.



How it Works

When water with harmful microbial pathogens enter the UV-LED reactor, the UV radiation sterilizes the pathogens by disrupting their DNA. ***IntenseBeam***™ Technology inactivates any microorganisim present in the water, making them unable to infect or multiply.



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STRIKE I-T

Single UV-C LED Configuration

UV Intensity Ranges from 8 to 40 mJ/cm^2

Disclaimer: The specifications noted below are for illustrative purposes only. Strike modules can be engineered into a variety of configurations, and specifications will vary depending on required UV dose requirements, body material, module length, flow rate, etc. Acuva's patented design allows for precise control of optics, hydrodynamics and kinetics for highly accurate UV-LED water treatment.

Recommended Operating Conditions

	Unit	Minimum	Typical	Maximum	Notes
UV Transmittance of Water	%/cm	95	97	-	UVC Range
Water Flow Rate	L/min	0.5	-	3	
Water Temperature	°C	Above Freezing	30	40	
Relative Humidity	%	-	63	75	
Continuous Operation Time	min	-	No Limit	-	1 minute if water is not running

Electrical Characteristics

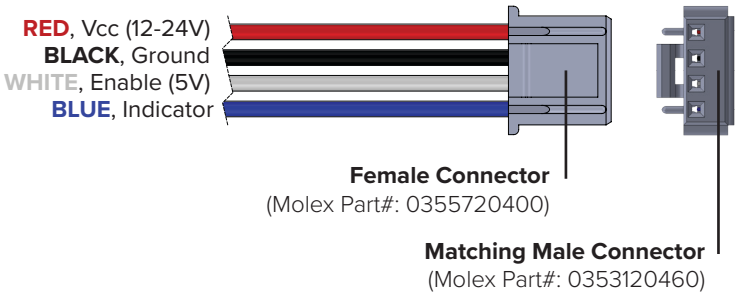
	Unit	Minimum	Typical	Maximum	Notes
Input Voltage	V	11	15	24	
Power Consumption (operation)	W	-	4.5	6	
Power Consumption (standby)	W	-	< 0.3	-	
Wire Harness Pull Stress	gf	-	250	300	

Connection: Wire Harness Connector

Signals: Vcc (Red), Ground (Black), Enable 5V (White), Fault/Indicator (Blue)

Notes

1. Wire harness color codes and functions are noted in the diagram, along with wire harness connector details.
2. Indicator signal communicates the module's health
3. The Enable signal is provided by the control board or flow switch. 2.5–5.0V = LED On | 0.0–0.2V = LED is Off



Absolute Maximum Ratings

	Unit	Rating
Input Voltage	V	30
Reverse Input Voltage	V	0.3
Enable Pin Voltage	V	6
Water Temperature	°C	50
Electrostatic Discharge (DST)	KV	2.0 (HBM)

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STRIKE I-B

Single UV-C LED Configuration

UV Intensity Ranges from 8 to 40 mJ/cm^2

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Recommended Operating Conditions

	Unit	Minimum	Typical	Maximum	Notes
UV Transmittance of Water	%/cm	95	97	-	UVC Range
Water Flow Rate	L/min	0.5	-	3	
Water Temperature	°C	Above Freezing	30	40	
Relative Humidity	%	-	63	75	
Continuous Operation Time	min	-	No Limit	-	1 minute if water is not running

Electrical Characteristics

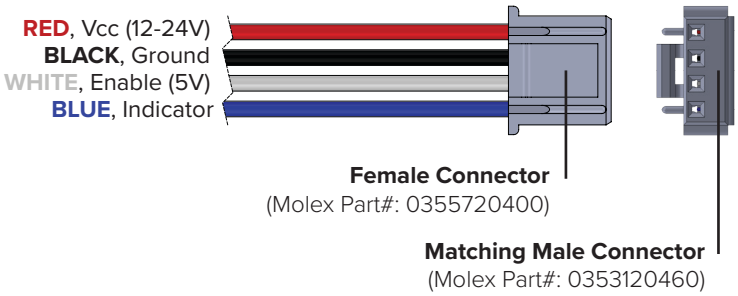
	Unit	Minimum	Typical	Maximum	Notes
Input Voltage	V	11	15	24	
Power Consumption (operation)	W	-	4.5	6	
Power Consumption (standby)	W	-	< 0.3	-	
Wire Harness Pull Stress	gf	-	250	300	

Connection: Wire Harness Connector

Signals: Vcc (Red), Ground (Black), Enable 5V (White), Fault/Indicator (Blue)

Notes

1. Wire harness color codes and functions are noted in the diagram, along with wire harness connector details.
2. Indicator signal communicates the module's health
3. The Enable signal is provided by the control board or flow switch. 2.5–5.0V = LED On | 0.0–0.2V = LED is Off



Absolute Maximum Ratings

	Unit	Rating
Input Voltage	V	30
Reverse Input Voltage	V	0.3
Enable Pin Voltage	V	6
Water Temperature	°C	50
Electrostatic Discharge (DST)	KV	2.0 (HBM)

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STRIKE II

Double UV-C LED Configuration

UV Intensity Ranges from 8 to 60 mJ/cm^2

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Recommended Operating Conditions

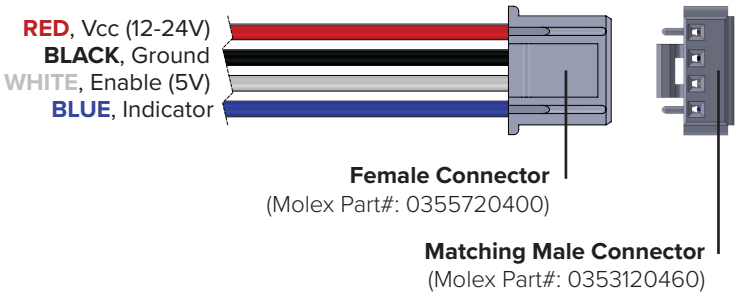
	Unit	Minimum	Typical	Maximum	Notes
UV Transmittance of Water	%/cm	95	97	-	UVC Range
Water Flow Rate	L/min	0.5	-	4	
Water Temperature	°C	Above Freezing	30	40	
Relative Humidity	%	-	55	75	
Continuous Operation Time	min	-	No Limit	-	1 minute if water is not running

Electrical Characteristics

	Unit	Minimum	Typical	Maximum	Notes
Input Voltage	V	11	15	24	
Power Consumption (operation)	W	-	9	-	
Power Consumption (standby)	W	-	< 0.3	-	
Wire Harness Pull Stress	gf	-	250	300	

Connection: Wire Harness Connector

Signals: Vcc (Red), Ground (Black), Enable 5V (White), Fault/Indicator (Blue)



Notes

1. Wire harness color codes and functions are noted in the diagram, along with wire harness connector details.
2. Indicator signal communicates the module's health
3. The Enable signal is provided by the control board or flow switch. 2.5–5.0V = LED On | 0.0–0.2V = LED is Off

Absolute Maximum Ratings

	Unit	Rating
Input Voltage	V	30
Reverse Input Voltage	V	0.3
Enable Pin Voltage	V	6
Water Temperature	°C	50
Electrostatic Discharge (DST)	KV	2.0 (HBM)