



**SIMCO ION**<sup>TM</sup>  
An ITW Company

**DAVUM** EQUIPEMENTS POUR L'INDUSTRIE  
**TMC** ELECTRONIQUE  
AUTOSPORT  
AERONAUTIQUE

Ionization Solutions

WWW.SIMCO-ION.COM

# Top Gun<sup>TM</sup> Ionizing Air Gun

## TOP GUN

Simco-Ion's Top Gun Ionizing Air Gun is a high-performance ionizing air gun designed for a wide variety of electronic manufacturing, medical and assembly applications. Balanced to  $0\pm 15V$ , the Top Gun features high blow-off force and low air consumption providing high efficiency cleaning and maximum static charge decay. A filter at the exit of the gun ensures that the air is clean.

The gun body is lightweight but durable. It features a light-touch trigger, making it comfortable even for extended use. All functionality is built into the gun, including a flow control valve, a balance adjustment for calibration, and a two level LED which indicates both power and ionization. Both the gun and cable are static dissipative. A hanger is provided for easy mounting.

### Features



- Lightweight, Ergonomic Design
- Flow Control Valve for Adjustable Airflow
- Electrically balanced ion output
- Integrated, Replaceable Filter-Nozzle
- Ionization Indicator Light

### Benefits

- Maximum user comfort prevents operator fatigue and increases productivity
- Airflow use that meets the specific application requirements
- Protects ESD sensitive components and assemblies
- Insures air contacting the target area is clean
- Eliminates the guesswork of ionization at target area



## Specifications

Top Gun 3	
<b>Input Voltage</b>	120 VAC, 60 Hz, 0.2A; 230 VAC, 50 Hz, 0.1A
<b>Discharge</b>	1.3 sec @ 6" (15.2 cm), 30 psi ( $\pm 1000-100V$ ); 0.5 sec @ 2" (5 cm), 60 psi ( $\pm 1000-100V$ ) <sup>1</sup>
<b>Balance</b>	$\pm 15V$
<b>Flow</b>	2.4 scfm @ 30 psi (68/min, 2 bar); 4.6 scfm @ 60 psi (130/min, 4 bar); 7.4 scfm @ 100 psi (210/min, 7 bar)
<b>Blow-off Force</b>	180g @ 100 psi, 2" diameter target 3" from the gun
<b>Air Pressure</b>	Pressure relief in nozzle complies with OSHA requirements
<b>Audible Noise</b>	76 dbA @ 30 psi input (2 bar); 89 dbA @ 60 psi input (4 bar); 97 dbA @ 100 psi input (7 bar); measured 24" (600 mm) from nozzle
<b>Operating Env.</b>	Temperature: 32-104°F (0-40°C); humidity: 30-60% RH (non-condensing)
<b>Ozone</b>	0.001 ppm measured 18" (450 mm) from gun, operation @ 15 psi (1 bar)
<b>Filter</b>	0.01 micron rating; replacement filters available
<b>Gas Input</b>	100 psi max; Clean Dry Air (CDA) or Nitrogen
<b>Gas Connection</b>	1/4" NPT (female)
<b>Air Hose</b>	Static dissipative polyurethane, 7' or 14' standard, 5' or 14' with optical sensor (integral to gun and control module)
<b>Enclosure</b>	Gun: Static dissipative polycarbonate/ABS blend; cable: static dissipative polyurethane
<b>Dimensions</b>	Gun: 6.5 oz (185g); air hose: 1.25 ounces/ft (115g/m)
<b>Warranty</b>	2 year limited warranty
<b>Certification</b>	 230V, 50 Hz  120V, 60 Hz (except versions w/optical sensor)
Control Module	
<b>Power</b>	120 VAC, 50/60 Hz, .10A; 230 VAC, 50/60 Hz, .05A
<b>Power Inlet</b>	IEC 320
<b>Pressure</b>	Maximum 100 psi Clean Dry Air Or Nitrogen (7 bar) 1/4" NPT connector, female
<b>Dimensions</b>	5.20W x 6.45H x 3.35D in. (132 x 164 x 85 mm)
<b>Enclosure</b>	Powder-coated steel
<b>Weight</b>	6 lbs (2.7 kg)

1. Tested in accordance with ANSI/ESD STM3.1-2006.

## Ordering Information

4005105	Top Gun 3, 120V, 7' Cable/Hose Assembly, 60 Hz, UL, cUL, North America
4005106	Top Gun 3, 230V, 7' Cable/Hose Assembly, 50 Hz, CE, cUL, Continental Europe
4009894	Top Gun 3, 230V, 7' Cable/Hose Assembly, 50 Hz, CE, United Kingdom
4015642	Top Gun 3, 230V/50 Hz, 7 ft, Cable/Hose Assembly, China CE
4006599	Top Gun 3, 120V, 14' Cable/Hose Assembly, 60 Hz, UL, cUL, North America
4006600	Top Gun 3, 230V, 14' Cable/Hose Assembly, 50 Hz, CE, cUL, Continental Europe
4009895	Top Gun 3, 230V, 14' Cable/Hose Assembly, 50 Hz, CE, United Kingdom
4015643	Top Gun 3, 230V/50 Hz, 14 ft Cable/Hose Assembly, China CE
4012199	Top Gun 3, 120V, 5' Cable/Hose Assembly, optical sensor, 60 Hz, North America
4012200	Top Gun 3, 230V, 5' Cable/Hose Assembly, optical sensor, 50 Hz, CE, Continental Europe
4012201	Top Gun 3, 230V, 5' Cable/Hose Assembly, optical sensor, 50 Hz, CE, United Kingdom
4012202	Top Gun 3, 120V, 14' Cable/Hose Assembly, optical sensor, 60 Hz, North America
4012203	Top Gun 3, 230V, 14' Cable/Hose Assembly, optical sensor, 50 Hz, CE, Continental Europe
4012204	Top Gun 3, 230V, 14' Cable/Hose Assembly, optical sensor, 50 Hz, CE, United Kingdom
4006992	Top Gun 3, 120V, Sidekick (hands-free stand), 60 Hz, UL, cUL, North America
4007005	Top Gun 3, 230V, Sidekick (hands-free stand), 50 Hz, CE, cUL, Continental Europe
4015644	Top Gun 3, 230V/50 Hz, Sidekick (hands-free stand), China
4012205	Top Gun 3, 120V, Sidekick (hands-free stand), optical sensor, 60 Hz, North America
4012206	Top Gun 3, 230V, Sidekick (hands-free stand), optical sensor, 50 Hz, CE, Continental Europe
5050696	Filter/Nozzle Kit (2 per pkg)
5051416	Filter Premium Replacement Kit (2 per pkg)



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## Top Gun with Optional Sidekick

The Top Gun with Sidekick offers hands-free operation and flexible positioning during assembly and manufacturing processes. A foot pedal controls both ionization and airflow, which reduces compressed air costs and extends the life of the ionizer. The flexible gun mount allows the operator to focus the ionized airflow where it is needed. The stand includes a steel bracket for easy bench-top mounting.



- Fully adjustable 18 inch neck focuses the ionized airflow
- Tabletop bracket provides easy mounting
- Foot pedal permits hands-free operation

## Top Gun with Optical Sensor

For automated assembly, all versions of the Top Gun are available with an optional Optical Sensor, which automatically activates the gun when an object is in range. The Optical Sensor has an "adjustable range" from 1-30 inches.



## Applications

- Medical device manufacturing and packaging
- Precision parts assembly
- Particulate removal in optics
- Cleaning glass or molded parts prior to finishing
- Cleaning thermo-formed trays

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