



# 3M™ Scott™ Vision C5 Facepiece with Radio Direct Interface

Regulatory Standards	
NFPA 1981, 2018 Edition	Certified as an accessory of the SCBA; Complies with the Supplementary Voice Communications System Performance Requirements for Speech Transmission Index (STI)
NFPA 1981, 2013 Edition	
Physical	
Weight (nominal)	33.9oz/961g (Vision C5 facepiece with radio direct interface and bone conduction headphone - battery installed)
Microphone	
Model Type	High sensitivity microphone with automatic gain control and breath detection technology
Frequency Response	50 Hz to 10 KHz
Distortion	Less than 3% THD @ 120 dB SPL @ 1000Hz
Bone Conduction Headphone Acoustics	
Impedance	DC: 8Ω±10% ; AC:8Ω±10%(@1kHz,Vrms=1.5V)
Sensitivity	100±3dB (0dB=1µm/s <sup>2</sup> @1kHz,Vrms=1.5V)
Frequency Response	100-10000Hz
Rated Power	0.28W
Max Power	1.10W, for 1 minute
Distortion	5% Max (Rated Input at 1000Hz)
Communications	
Wireless Communications	Bluetooth® 4.1 Class 2 for Bluetooth voice communications operation with Motorola APX™ series radios and APX series remote speaker microphones (RSM).
Battery	
Nominal Capacity	3350 mAh
Nominal Voltage	3.63V
Battery Run-time	Intrinsically safe lithium-ion battery provides up to 15 hours of continuous run-time
Recharge Cycles	300
Weight	2.75oz/78g (nominal)
Recharge Time	4.5 hours (nominal)
Storage Temperature (for shipping state)	1 Month: -20°C - +50°C 3 Months: -20°C - +45°C 1 year: -20°C - +20°C
Environmental	
High Heat and Flame	500°F / 260°C for 5 minutes soak with a 10 second flame impingement, followed by a 6 inch drop
Standard Heat and Flame	203°F / 95°C for 15 minutes soak with a 10 second flame impingement, followed by a 6 inch drop
Radiant Heat	15 kW/m <sup>2</sup> for 5 minutes at 7 inches ± 1 inch from heat source, followed by a 6 inch drop
Operating Temp	-4F - +125F / -20C - +50°C
Storage Temp	1 Month: -4F - +125F / -20°C - +50°C 3 Months: -4F - +115F / -20°C - +45°C 1 Year: -4F - +70F / -20°C - +20°C
Humidity	Tested Per MIL-STD-810 F, Temperature: -40F - +160F / -40°C - +70°C
Ingress Protection	IP66 and IP67
Drop & Tumble	6 ft drop on 6 sides, followed by a 30 minute tumble

Environmental	
Intrinsic Safety Rating	IEC 60079-0: 2011 6th Edition, IEC 60079-11: 6th Edition for use in Zone 0,1,2, Group IIB, potentially explosive atmospheres.  CSA Group to UL-913, 6th edition, for use in the following hazardous locations: Class 1, Division 1, Groups C and D Class 2, Division 1, Groups E, F and G, T3A
Charger	
Dimensions (inches)	4.61 in x 4.1 in x 4.27in / 11.7 cm x 10.4 cm x 68.6 cm
Operating Temp	0°C - +45°C
Input Voltages	12-32 VDC @ 1.00 Amps
Output Voltage	4.2 VDC @ 1.20 Amps
Regulatory	Complies with NFPA 1901: Standard for Automotive Fire Apparatus requirements when properly mounted in a vehicle



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