

AutoVu SharpV G3 without wireless communications Certifications Summary

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The AutoVu SharpV G3 without radio (000 suffix) has been tested and found compliant to the following list of certification tests, under specified test conditions. This certifications summary is applicable to the following part numbers:

AU-V-BS590-LC-G3-000. SharpV-G3, Black, Standard Range, 590nm, No Communication

AU-V-BS740-LC-G3-000. SharpV-G3, Black, Standard Range, 740nm, No Communication

AU-V-BS741-LC-G3-000. SharpV-G3, Black, Standard Range, 740nm, No Communication, No Filter on LPR

AU-V-BS850-LC-G3-000. SharpV-G3, Black, Standard Range, 850nm, No Communication

AU-V-BS940-LC-G3-000. SharpV-G3, Black, Standard Range, 940nm, No Communication

AU-V-WS590-LC-G3-000. SharpV-G3, White, Standard Range, 590nm, No Communication

AU-V-WS740-LC-G3-000. SharpV-G3, White, Standard Range, 740nm, No Communication

AU-V-WS741-LC-G3-000. SharpV-G3, White, Standard Range, 740nm, No Communication, No Filter on LPR

AU-V-WS850-LC-G3-000. SharpV-G3, White, Standard Range, 850nm, No Communication

AU-V-WS940-LC-G3-000. SharpV-G3, White, Standard Range, 940nm, No Communication

Electromagnetic compatibility (EMC) tests

TEST	STANDARD	CONDITIONS	TEST LABORATORY	TEST DATE
Electromagnetic emissions (US / Canada)	FCC part 15 Subpart B: 2020 ICES-003: 2019	Class A limits	Nemko QC, Canada	April 2021
Electromagnetic emissions (international, IECCE)	AS/NZS CISPR32:2015/AMD1:2019 EN 55032:2015/A11:2020	Class A limits	Nemko QC, Canada	April 2021
Electromagnetic immunity (international, IECCE)	CISPR 35:2016 EN 55035:2017/A11:2020	MME general levels unless otherwise noted IEC 61000-4-2: ESD: Cont: +/- 4kV, Air: +/-8kV IEC 61000-4-3: Radiated RF field imm: 10V/m enhanced level IEC 61000-4-4: EFT: +/- 0.5kV, 5kHz IEC 61000-4-5: Surge: +/- 2kV (telecom with external network setup for 148A enhanced surge current) IEC 61000-4-6: Conducted RF imm: 10Vrms IEC 61000-4-8: Magnetic field imm: 3A/m	Nemko QC, Canada	April 2021
EMC Directive (CE marking)	2014/30/EU	EN 55032 (MME), EN 55035 (MME)	Nemko QC, Canada	April 2021

Environmental tests

TEST	STANDARD	CONDITIONS	TEST LABORATORY	TEST DATE
High temperature	IEC 60068-2-2:2007 Test Be	+65°C , 2hrs dwell	NTS QC, Canada	April 2021
Low temperature	IEC 60068-2-1:2007 Test Ae	-40°C , 2hrs dwell	NTS QC, Canada	April 2021
Cold start	IEC 60068-2-1:2007 Test Ad	-40°C , 2hrs dwell before cold start	NTS QC, Canada	April 2021
Thermal shock	IEC 60068-2-14:2009 Test Na	-40°C to +65°C , temp. change rate of < 7°C/s, 50 cycles 1hr dwell time at extremes	NTS QC, Canada	May 2021
Random vibration	IEC 60068-2-64:2008 Test Fh	3 axes, 1hr/axis , 5-100Hz Acceleration: 0.5grms	NTS QC, Canada	April 2021
Random vibration Two-Wheeled Trailer	MIL-STD-810H, Method 514.8;	Angled longitudinal axis : 2.52grms Angled Transverse axis : 1.22grms Vertical axis : 3.98grms 5-500Hz, 32 minutes per axis	NTS QC, Canada	June 2021
Mechanical shock – Bump	IEC60068-2-27:2008 Test Ea	10g, 3 axis , 16ms pulse width, half-sine X/Y/Z: 3 shocks per direction on each axis	NTS QC, Canada	April 2021

Mechanical shock – Bump Repetitive	IEC 60068-2-27:2008, Test Ea	10g, Z axis (vertical) , 16ms pulse width, half-sine 1000 shocks	NTS QC, Canada	June 2021
Water ingress resistance	IEC 60529:2013 IPx6, IPx7	IPx6 : at least 3 min total, all sides, 100 liters/min IPx7 : 30 minutes @ 1 meter immersion	NTS QC, Canada	June 2021
Solid ingress resistance (dust)	IEC 60529:2013 IP6x	IP6x : 8 hours dust chamber test -20mbar EUT de-pressurization	NTS QC, Canada	June 2021
Solid ingress resistance (rod)	IEC 60529:2013 IP6x	Steel rod diameter : 1.0 +0.05mm/-0.0mm Steel rod length : 100 ± 0.2mm Force applied : 1 ± 0.1N	NTS QC, Canada	June 2021
Impact	IEC 62262:2002, Code IK09 Test method: IEC 60068-2-75:2014, Test Ehc	Code: IK09 Energy: 10J Number of impacts: 5 on each exposed face With and without vandal-proof connector guard.	NTS QC, Canada	June 2021

Safety tests

TEST/SCHEME	STANDARD	CONDITIONS	TEST LABORATORY OR CERTIFICATION BODY	DATE
Photobiological safety	IEC 62471:2006 CB Scheme	Risk group class: Exempt	TUV SUD ON, Canada	April 2021
Norma Oficial Mexicana (Mexico)	NOM-001-SCFI-2018	N/A	Boxlity	January 2022
Compulsory Registration Scheme (India)	IS 13252-1/IEC 60950-1	N/A	Bureau of Indian Standards	February 2022
Safety of Audio/video, information and communication technology equipment	IEC 62368-1:2018 CB Scheme	National deviations evaluated: EN IEC 62368- 1:2020+A11:2020 CSA/UL 62368-1:2019 SASO-IEC 62368-1:2020 AS/NZS 62368.1:2022	Intertek Testing Services NA, Inc.	April, 2023