

Accredited body:**Institute for Testing and Certification, a joint-stock company**

Testing Laboratory of Electrical Products

Sokolovská 573, 686 01 Uherské Hradiště

Workplace of the testing laboratory:**Workplace 1: Institute for Testing and Certification, a joint-stock company, Sokolovská 573, 686 01 Uherské Hradiště****Test reports are signed by:****Ing. Pavel Vávra**

Head of the Laboratory

Stanislav Malina

Technical Manager of the Laboratory

Tests: Climatic tests*The laboratory is qualified for providing expert opinions and test results interpretations.*

Sequence Number	Exact Name of the Test Procedure/Method	Identification of the Test Procedure/Method	Subject of Test
1	Dust test.	ČSN EN 60068-2-68; La1, La2	Electrotechnical and electronic products.
2	Vacant		
3	Cold test.	ČSN EN 60068 - 2 - 1+A1 +A2	Electrotechnical and electronic products.
4	Dry heat test.	ČSN EN 60068 - 2 - 2+A1	Electrotechnical and electronic products.
5	Damp heat test, steady.	ČSN EN 60068-2-78	Electrotechnical and electronic products.
6	Salt spray test.	ČSN ISO 9227 ČSN 345791, Part 2 ÷ 11	Electrotechnical and electronic products.
7	Low pressure test.	ČSN EN 60068 - 2 - 13	Electrotechnical and electronic products..
8	Temperature change test.	ČSN EN 60068 - 2 - 14	Electrotechnical and electronic products.
9	Damp heat test, cyclic.	ČSN EN 60068 - 2 - 30	Electrotechnical and electronic products.
10	Combined test – cold, low pressure.	ČSN EN 60068 - 2 - 40	Electrotechnical and electronic products.
11	Combined test – dry heat, low pressure.	ČSN EN 60068 - 2 - 41	Electrotechnical and electronic products.
12	Salt mist test, cyclic.	ČSN EN 60068 - 2 - 52	Electrotechnical and electronic products.
13	Temperature/humidity cyclic test.	ČSN IEC 68 - 2 - 38	Electrotechnical and electronic products.

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Testing Laboratory of Electrical Products

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Tests: Mechanical tests

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Sequence Number	Exact Name of the Test Procedure/Method	Identification of the Test Procedure/Method	Subject of Test
14.1	Vibration test - sinusoidal.	ČSN EN 60068 - 2 - 6	Electrotechnical and electronic products.
14.2	Vibration tests-random broadband.	ČSN EN 60068 - 2 - 64 ČSN EN 61373, Art. 9	Electrotechnical and electronic products.
15	Impact test - half-sine impact.	ČSN EN 60068 - 2 - 27	Electrotechnical and electronic products.
16	Shock test.	ČSN EN 60068 - 2 - 29 ČSN EN 61373, Art. 10	Electrotechnical and electronic products.

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Testing Laboratory of Electrical Products

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Tests: Electrical safety*The laboratory is qualified for providing expert opinions and test results interpretations.*

Sequence Number	Exact Name of the Test Procedure/Method	Identification of the Test Procedure/Method	Subject of Test
17	Test of protection provided by enclosure of electrical appliances.	ČSN EN 60529 ČSN EN 60950-1; Annex T ČSN EN 60335-1; 22, 15 ČSN EN 61010-1; 11.6 ČSN EN 60601-1; 16, 44.6 ČSN EN 61558-1; 17 ČSN EN 60598-1; Section 9 ČSN EN 60204-1; 6.2.2 ČSN EN 60730-1; 12.1	Electrotechnical and electronic products. Office machinery and computers. Household and similar electrical appliances Measuring and control equipment. Electrical medical devices. Transformers. Luminaires. Electrical equipment of machines. Automatic electrical controls for household and similar use
18	Leakage current test.	ČSN EN 60950-1, 5.1 ČSN EN 60335-1, 13.2, 16.2 ČSN EN 60601-1; 19 ČSN EN 60065; 9.1.1 ČSN EN 61010-1; 6.3 ČSN EN 60598-1; 10.3 ČSN EN 60730-1; 13.3	Office machinery and computers. Household and similar electrical appliances Electrical medical devices. Audio, video and similar apparatus. Measuring and control equipment. Luminaires. Automatic electrical controls for household and similar use

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Sequence Number	Exact Name of the Test Procedure/Method	Identification of the Test Procedure/Method	Subject of Test
19	Electric strength test (up to 5 000 V).	<p>ČSN EN 60065; 10.3</p> <p>ČSN EN 60950-1, 5.2</p> <p>ČSN EN 60335-1, 13.3, 16.3</p> <p>ČSN EN 61010-1; 6.8.4</p> <p>ZP 01QM (ČSN 345611, test 112)</p> <p>ČSN EN 60601-1; 20</p> <p>ČSN EN 61558-1; 18.3</p> <p>ČSN EN 60598-1; 10.2.2</p> <p>ČSN EN 60204-1; 19.4</p> <p>ČSN EN 62 115; 10, 11</p> <p>ČSN EN 60730-1; 13.2</p>	<p>Audio, video and similar apparatus.</p> <p>Office machinery and computers.</p> <p>Household and similar electrical appliances</p> <p>Measuring and control equipment.</p> <p>Electrotechnical and electronic products.</p> <p>Electrical medical devices.</p> <p>Transformers.</p> <p>Luminaires.</p> <p>Electrical equipment of machines.</p> <p>Electric toys.</p> <p>Automatic electrical controls for household and similar use</p>
20	Insulation resistance test	<p>ČSN EN 60065; 10.3</p> <p>ZP 01QM (ČSN 345611, test 111)</p> <p>ČSN EN 61558-1; 18.2</p> <p>ČSN EN 60598-1; 10.2.1</p> <p>ČSN EN 60204-1; 19.3</p> <p>ČSN EN 60730-1; 13.1</p>	<p>Audio, video and similar apparatus.</p> <p>Electrotechnical and electronic products.</p> <p>Transformers.</p> <p>Luminaires.</p> <p>Electrical equipment of machines.</p> <p>Automatic electrical controls for household and similar use</p>

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Sequence Number	Exact Name of the Test Procedure/Method	Identification of the Test Procedure/Method	Subject of Test
21	Steel ball pressure test.	ČSN EN 60950-1, 4.5.2 ČSN EN 60335-1; 30.1 ČSN EN 60601-1; 59.2 b) ČSN EN 61010-1; 10.5.3 ČSN EN 62 115; 19.1 ČSN EN 61558-1; 27.1 ČSN EN 60598-1; 13.2.1 ČSN EN 60730-1; 21.2.5, 21.2.6	Office machinery and computers. Household and similar electrical appliances. Electrical medical devices. Measuring and control equipment. Electric toys. Transformers. Luminaires. Automatic electrical controls for household and similar use
22	Steel ball test.	ČSN EN 60950-1; 4.2.5 ČSN EN 60598-1; 4.13.4 ČSN EN 61010-1; 8.1.2	Office machinery and computers. Luminaires. Measuring and control equipment.
23	Drop test.	ČSN EN 60950-1; 4.2.6 ČSN EN 60065; 12.1.1 ČSN EN 61010-1; 8.2 ČSN EN 60601-1; 21.5, 21.6 ČSN EN 61558-1; 16.3 ČSN EN 60598-1; 4.13.4 ČSN EN 60730-1; 18.5	Office machinery and computers. Audio, video and similar apparatus. Measuring and control equipment. Electrical medical devices. Transformers. Luminaires. Automatic electrical controls for household and similar use

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Sequence Number	Exact Name of the Test Procedure/Method	Identification of the Test Procedure/Method	Subject of Test
24	Hammer impact test.	ČSN EN 60335-1; 21 ČSN EN 60065; 12.1.3 ČSN EN 60601-1; 21 b) ČSN EN 61558-1, 16.2 ČSN EN 60598-1; 4.13.1 ČSN EN 60730-1; 18.2	Household and similar electrical appliances Audio, video and similar apparatus. Electrical medical devices. Transformers. Luminaires. Automatic electrical controls for household and similar use
25	Mechanical strength test.	ČSN EN 60950-1; 4.2.2, 4.2.3 ČSN EN 60601-1; 21 a) ČSN EN 60598-1; 4.13.3 ČSN EN 60730-1; 18.9	Office machinery and computers. Electrical medical devices Luminaires. Automatic electrical controls for household and similar use
26	Test of clearances and creepage distances.	ČSN EN 60950-1, 2.10 ČSN EN 60335-1; 29 ČSN EN 61010-1; 6.7 ČSN EN 60601-1; 57.10 ČSN EN 61558-1; 26 ČSN EN 60598-1; Section 11 ČSN EN 62 115; 18 ČSN EN 60730-1; 20	Office machinery and computers. Household and similar electrical appliances. Measuring and control equipment. Electrical medical devices. Transformers. Luminaires. Electric toys. Automatic electrical controls for household and similar use

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Sequence Number	Exact Name of the Test Procedure/Method	Identification of the Test Procedure/Method	Subject of Test
27	Temperature rise test.	ČSN EN 60950-1; 4.5 ČSN EN 60335-1; 11, 19.13 ČSN EN 60601-1; 42 ČSN EN 60065; 7 ČSN EN 61010-1; 10 ČSN EN 62 115; 9 ČSN EN 61558-1; 14 ČSN EN 60598-1; Section 12 ČSN EN 60730-1; 14	Office machinery and computers. Household and similar electrical appliances. Electrical medical devices. Audio, video and similar apparatus. Measuring and control equipment. Electric toys. Transformers. Luminaires. Automatic electrical controls for household and similar use
28	Power cord stress test.	ČSN EN 60950-1; 3.2.6 ČSN EN 60335-1; 25.14, 25.15 ČSN EN 60601-1; 57.4 ČSN EN 60065; 16.3 ČSN EN 61558-1; 19.15, 22.9.4 ČSN EN 60598-1; 5.2.10.3 ČSN EN 60730-1; 11.7.2	Office machinery and computers. Household and similar electrical appliances. Electrical medical devices. Audio, video and similar apparatus. Transformers. Luminaires. Automatic electrical controls for household and similar use
29	Needle-flame test.	ČSN EN 60695-11-5 ČSN EN 60598-1; 13.3.1 ČSN EN 60730-1; G.3	Electronic instruments, electrotechnical devices. Luminaires. Automatic electrical controls for household and similar use

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Sequence Number	Exact Name of the Test Procedure/Method	Identification of the Test Procedure/Method	Subject of Test
30	Blowing/hot-wire test.	ČSN EN 60695-2-11 ČSN EN 60695-2-12 ČSN EN 60695-2-13 ČSN EN 60598-1; 13.3.2 ČSN EN 60730-1; G.2	Electronic instruments, electrotechnical devices. Luminaires. Automatic electrical controls for household and similar use
31	Protective bonding test.	ČSN EN 60065; 15.2 ČSN EN 60950, 2.5.11 ČSN EN 61010-1; 6.5.1.3 ČSN EN 60601-1; 18 ČSN EN 60335-1; 27 ČSN EN 60598-1; 7.2.3 ČSN EN 60204-1; 19.2 ČSN EN 60730-1; 9.3	Audio, video and similar apparatus. Office machinery and computers. Measuring and control equipment. Electrical medical devices. Household and similar electrical appliances. Electrical equipment of machines. Automatic electrical controls for household and similar use
43	Tracking test.	ČSN EN 60112 ČSN EN 60598-1; 13.4 ČSN EN 61558-1; 27.5 ČSN EN 60730-1; 21.2.7, G.4	Tracking resistance test. Luminaires. Transformers. Automatic electrical controls for household and similar use
44	Drum test.	ČSN EN 60598-1; 14.13.6 ČSN EN 61558-1; 16.4 ČSN EN 60730-1; 18.6	Luminaires. Transformers. Automatic electrical controls for household and similar use
45	Heat and fire resistance test.	ČSN EN 62 115; 19	Electric toys.
48	Magnetic field measurement.	ČSN EN 50366 ČSN EN 62233	Household and similar electrical appliances.

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Sequence Number	Exact Name of the Test Procedure/Method	Identification of the Test Procedure/Method	Subject of Test
49	Measurement of rated values of power supply.	ČSN EN 60335-1; 10 ČSN EN 60065; 5.1 g), i) ČSN EN 60950-1; 1.6.2 ČSN EN 61010-1; 5.1.3 ČSN EN 60601-1; 4.11 ČSN EN 62115; 8	Household and similar electrical appliances Audio, video and similar apparatus. Office machinery and computers Measuring and control equipment. Electrical medical devices. Electric toys
50 to 100	Vacant		

ZP – Test procedure of the laboratory

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Testing Laboratory of Electrical Products

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Tests: Electromagnetic compatibility*The laboratory is qualified for providing expert opinions and test results interpretations.*

Sequence Number	Exact Name of the Test Procedure/Method	Identification of the Test Procedure/Method	Subject of Test
32.1	Test of harmonic current emissions.	ČSN EN 61000-3-2	Electrical and electronic devices.
32.2	Determination of voltage fluctuations and flicker.	ČSN EN 61000-3-3	Electrical and electronic devices.
33.1	Test of immunity to conducted disturbances, induced by radio-frequency fields.	ČSN EN 61000-4-6	Electrical and electronic devices.
33.2	Test of conducted susceptibility, power leads 30 Hz to 50 kHz.	MIL – STD – 461E, Part CS 101 ZP 03QM (MIL - STD - 462 D, Part CS 101)	Electrical and electronic devices.
33.3	Test of conducted susceptibility, antenna port 15 kHz to 1 GHz.	MIL – STD – 461E, Part CS 103 ZP 03QM (MIL - STD - 462 D, Part CS 103)	Electrical and electronic devices.
33.4	Test of conducted susceptibility, bulk cable injection 10 kHz to 400 MHz.	MIL – STD – 461E, Part CS 114 ZP 03QM (MIL - STD - 462 D, Part CS 114)	Electrical and electronic devices.
34	Radiated electromagnetic field – immunity test.	ČSN EN 61000-4-3	Electrical and electronic devices.
35	Electrostatic discharge - immunity test.	ČSN EN 61000-4-2	Electrical and electronic devices.
36	Electrical fast transient/burst immunity test.	ČSN EN 61000-4-4	Electrical and electronic devices.
37	Surge immunity test.	ČSN EN 61000-4-5	Electrical and electronic devices.
38	Power frequency magnetic field immunity test.	ČSN EN 61000-4-8	Electrical and electronic devices.
39	Voltage dips, short interruptions and voltage variations immunity test.	ČSN EN 61000-4-11	Electrical and electronic devices.

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Sequence Number	Exact Name of the Test Procedure/Method	Identification of the Test Procedure/Method	Subject of Test
40.1	Measurement of V-terminal voltage.	ČSN EN 55011 Art. 7.2 ČSN EN 55013 Art. 5.2 ČSN EN 55014-1 Art. 5 ČSN EN 55015 Art. 8 ČSN EN 55022 Art. 9	Electrical and electronic devices.
40.2	Measurement of conducted emissions, power leads 10 kHz to 10 MHz.	MIL – STD – 461E, Part CE 102 ZP 03QM (MIL - STD - 462 D, Part CE 102)	Electrical and electronic devices.
41	Measurement of disturbance power.	ČSN EN 55013 Art. 5.6 ČSN EN 55014-1 Art. 6	Electrical and electronic devices.
42.1	Measurement of radiated disturbance.	ČSN EN 55011 Art. 7.1.3 ČSN EN 55013 Art. 5.4 ČSN EN 55015 Art. 9 ČSN EN 55022 Art. 10	Electrical and electronic devices.
42.2	Measurement of radiated emissions, electric field 10 kHz to 2.2 GHz.	MIL – STD – 461E, Part RE 102 ZP 03QM (MIL - STD - 462 D, Part. RE 102)	Electrical and electronic devices.
42.3	Measurement of radiated emissions, antenna spurious & harmonic outputs 10 kHz to 2.2 GHz.	MIL – STD – 461E, Part RE 103 ZP 03QM (MIL - STD - 462 D, Part RE 103)	Electrical and electronic devices.

MIL - STD - 461 E: Military Standard – Requirements for the Control of Electromagnetic Interference Characteristics of subsystems and equipment.

ZP – Test procedure of the laboratory

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Tests: Noise measurement

The laboratory is qualified for providing expert opinions and test results interpretations.

Sequence Number	Exact Name of the Test Procedure/Method	Identification of the Test Procedure/Method	Subject of Test
46	Noise measurement.	ČSN 91 4640, Art. 81, 82 ČSN EN ISO 11202 ČSN EN ISO 11204 ČSN ISO 3746 ČSN EN 71-1, Art. 8.28 ČSN ISO 3744	Dwelling rooms, flash cisterns, machines, toys.
47*	Noise measurement in working and non-working environment.	ČSN ISO 1996-1; ČSN ISO 1996-2; ČSN ISO 1996-3; ČSN ISO 9612	Environmental noise.

¹⁾ The asterisk next to the sequence number refers to the tests conducted also outside the laboratory premises.

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Testing laboratory workplace:

Workplace 2: Institute for Testing and Certification, a joint-stock company, Ocelářská 35, 190 00 Praha 9

Test reports are signed by:

Ivan Dvořák

Technical Manager of the Laboratory

Tests: Testing technical ability of SW and HW of gaming machines and technical equipment for operation of betting games including accessories

The laboratory is qualified for providing expert opinions and test results interpretations.

Sequence number ¹⁾	Exact Name of the Test Procedure/Method	Identification of the Test Procedure/Method	Subject of Test
101*	Test of maximum bet on a game – maximum winnings from one game.	Test specification 02QM, Art. 8.1.	Gaming machines and technical equipment for operation of betting games including accessories.
102*	Test of duration time of a game.	Test specification 02QM, Art. 8.2.	Gaming machines and technical equipment for operation of betting games including accessories.
103*	Test of maximum hourly loss.	Test specification 02QM, Art. 8.3.	Gaming machines and technical equipment for operation of betting games including accessories.
104*	Test of winnings share.	Test specification 02QM, Art. 8.4.	Gaming machines and technical equipment for operation of betting games including accessories.
105*	Test of recording paid-in and paid-out coins.	Test specification 02QM, Art. 8.5.	Gaming machines and technical equipment for operation of betting games including accessories.

¹⁾ The asterisk next to the sequence number refers to the tests conducted also outside the laboratory premises.

02QM – Test procedure for testing technical ability of SW and HW of gaming machines and technical equipment for operation of betting games including accessories