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## DX-2002 Series Information Sheet

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The DiagnostX DX-2002 unit is an over-the-air radio analyzer that identifies, verifies, and analyzes the alignment and field performance of two-way radios on the network in real-time without user intervention.



### Features

- Monitors the Base Station Receive Control Channel (Inbound) frequency
  - Protocols: P25 Trunked & P25 Conventional, Legacy, TRBO, DMR, NXDN
  - P25 System Metrics:
    - ◆ RF Frequency Error
    - ◆ Symbol Frequency Error 600 and 1800
    - ◆ Modulation Fidelity
    - ◆ Average Symbol Deviation
    - ◆ Emission Mask Conformance
    - ◆ BER, RSSI and SNR
  - Available Frequency Bands: VHF 136-174; UHF 380-430; UHF 450-470; UHF 470-512; 700; 800; 900 MHz
  - Installation: Two connections - universal AC power and an antenna. Can connect to the Rx antenna multi-coupler
  - One DX unit can be networked with up to three (3) NX-200 Remote Receivers to provide system-wide coverage. All data is stored in a unified database accessed through DiagnostX Viewer (DV).
  - Autonomous - DiagnostX is non-intrusive and has no impact on the LMR network
  - Portable - allows a unit to be moved to multiple sites for additional area coverage
  - Optional DiagnostX Viewer (DV) licenses can be installed on any computer on the network
  - User-defined thresholds can be changed on the fly at any time
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## DX-2002 Specifications

<b>Dimensions</b>	2U	H 3.5", W ~17", D 19"
<b>Weight</b>	~ 27 lbs	
<b>Power</b>	AC Voltage	100-240VAC @ 50-60Hz
<b>Network Connectivity</b>	RJ45	Gigabit Ethernet
<b>Peripherals</b>	USB & PS2	mouse & keyboard*

\* Not Supplied

<b>DX-2002a</b>	Single Protocol, Single Frequency Band
<b>DX-2002b</b>	Single Protocol, Dual Frequency Band
<b>DX-2002c</b>	Dual Protocol, Single Frequency Band
<b>DX-2002d</b>	Dual Protocol, Dual Frequency Band

## DiagnostX Viewer (DV) Report Sorted by Radio ID

Radio Id	Alias	RF Carrier Frequency Error (Hz)	Symbol Frequency Error 600	Symbol Frequency Error 1800	Modulation Fidelity	Average Symbol Deviation (Hz)	Status	Date/Time
5300564	5300564	0	0	0	0.00%	0	NOT ENOUGH EVENTS	3/1/2018 11:31 AM
5300566	5300566	-82	-15	-41	0.13%	1756	PASSED	3/5/2018 8:34 AM
5320001	5320001	-290	-23	-53	0.15%	1739	PASSED	3/28/2018 9:35 AM
5320003	5320003	-435	-7	-8	0.18%	1785	FAILED	3/21/2018 12:18 PM
5320004	5320004	-579	-13	-35	0.17%	1763	FAILED	3/27/2018 9:15 AM
5320005	5320005	-214	-5	-8	0.21%	1786	PASSED	3/8/2018 9:12 AM
5320007	5320007	-240	-19	-43	0.18%	1753	PASSED	3/7/2018 9:12 AM
5320008	5320008	-376	-21	-50	0.17%	1743	FAILED	3/28/2018 2:55 PM
5320009	5320009	-334	-16	-46	0.20%	1763	PASSED	2/28/2018 6:32 AM
5320010	5320010	-369	-14	-32	0.20%	1762	FAILED	3/27/2018 4:25 AM
5320011	5320011	0	0	0	0.00%	0	NOT ENOUGH EVENTS	3/1/2018 3:02 AM
5320012	5320012	-375	-14	-40	0.18%	1780	FAILED	3/7/2018 12:53 PM
5320013	5320013	0	0	0	0.00%	0	NOT ENOUGH EVENTS	2/28/2018 5:01 PM
5320014	5320014	216	-16	-45	0.21%	1751	PASSED	3/8/2018 9:08 AM
5320015	5320015	-328	-16	-25	0.22%	1767	PASSED	3/9/2018 4:02 AM
5320016	ray	-436	-13	-35	0.19%	1764	FAILED	3/1/2018 3:01 AM
5320017	5320017	-345	-17	-39	0.19%	1754	PASSED	3/6/2018 12:59 PM
5320023	5320023	0	0	0	0.00%	0	NOT SUITABLE	3/24/2018 3:08 AM
5320024	5320024	-385	-11	-43	0.20%	1762	FAILED	3/10/2018 3:33 AM
5320028	5320028	-800	-8	-25	0.25%	1777	FAILED	3/28/2018 3:10 AM
5320034	5320034	-289	-25	-63	0.18%	1732	PASSED	3/28/2018 5:05 PM
5320037	5320037	0	0	0	0.00%	0	NOT ENOUGH EVENTS	3/23/2018 4:05 AM
5320040	5320040	-288	-22	-55	0.22%	1741	PASSED	3/21/2018 6:23 AM
5320041	5320041	-215	-8	-21	0.22%	1778	PASSED	3/22/2018 6:53 AM
5320042	5320042	97	-15	-25	0.15%	1765	PASSED	3/7/2018 3:13 PM
5320043	5320043	-240	-14	-38	0.18%	1762	PASSED	3/28/2018 6:32 AM
5320044	5320044	-20	-13	-25	0.18%	1769	PASSED	3/28/2018 4:19 PM
5320045	5320045	-432	-19	-29	0.19%	1759	FAILED	3/27/2018 4:57 AM
5320046	5320046	-245	-16	-45	0.16%	1755	PASSED	3/27/2018 7:42 AM
5320047	5320047	-548	-13	-33	0.21%	1760	FAILED	3/28/2018 9:44 AM
5320048	5320048	-29	-12	-38	0.22%	1764	PASSED	3/28/2018 9:18 AM
5320049	5320049	0	0	0	0.00%	0	NOT ENOUGH EVENTS	3/1/2018 7:54 AM

All models include an antenna, a multi-coupler cable, and a one-year manufacturer warranty.

Contact [LocusUSA](http://LocusUSA) for a quote at 321.727.3077 or [sales@locususa.com](mailto:sales@locususa.com).

### Patent Nos.

United States: #8,565,096, #8,948,022, #9,282,482, #8,600,371, #8,825,042, #9,432,866 #9,681,321 B2, #10,200,902  
 Canadian: #2,746,238 • Australian: #2010235881, #2012253596 #2015203442 • Other patents pending

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