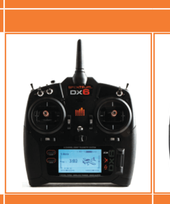
SPEKTRUM
Innovative Spread Spectrum Technology

Air Transmitter Comparison Chart

Transmitter	Entry Level				Advanced Level								Intelligent Level	
	Spektrum "e" Series				Spektrum "DX" Series					Spektrum "NX "Series			Spektrum "iX" Series	
														
	DXe	DXS	DX6e	DX8e	DX6G3	DX8G2	DX9 DX9 Black	DX18G2	DX20	NX6	NX8	NX10	iX12	iX20
Transmitter model number	SPM1000 SPMR1000	SPM1010 SPMR1010	SPM6650	SPMR8100	SPM6750 SPMR6750	SPM8000 SPMR8000	SPM9900 SPMR9900 SPMR9910	SPM18100	SPM20000	SPM6775 SPMR6775	SPM8200 SPMR8200	SPMR10100	SPM12000 SPMR12000	SPMR20100
Channel Count	4 to 9	7	6	8	6	8	9	18	20	6+(limited)	8	10	12	12
Channels @ 2048 Resolution	0	0	6	8	6	6	9	12	12	6	8	10	12	12
Model Memory	Unlimited•	1	250	250	250	250	250	250	250	250	250	250	250	250
Gimbal	Bushing	Bushing	Quad bearing	Quad bearing	Quad bearing	Quad bearing	Quad bearing	Quad bearing	Quad bearing aluminum	Quad bearing	Quad bearing	Quad bearing	Quad bearing	Quad bearing
Adjustable stick tension	Yes ♦	Yes ♦	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Adjustable throttle ratchet/smooth	Yes ♦	Yes ♦	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Adjustable stick height	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Modes	1, 2, 3, 4•	1, 2, 3, 4•	1, 2, 3, 4, 5	1, 2, 3, 4, 5	1, 2, 3, 4	1, 2, 3, 4	1, 2, 3, 4	1, 2, 3, 4	1, 2, 3, 4	1,2.3.4	1,2,3,4	1,2,3,4	1, 2, 3, 4	1,2,3,4
Wireless trainer link	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Wired trainer link	Yes	Yes	No	No	Yes	Yes	Yes	Yes	Yes	Yes Δ	Yes Δ	Yes Δ	Yes Δ	Yes Δ
Telemetry	No	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Digital trim	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
SD card support	No	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Magnetic Encoder Gimbals	No	No	No	No	No	No	No	No	No	No	No	Yes	No	Yes
Modulation														
DSMX 22ms	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
DSMX 11ms	No	No	No	Yes	Yes*	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
DSM2 22ms	No	No	Yes**	Yes**	Yes**	Yes**	Yes **	Yes **	Yes**	Yes**	Yes**	Yes**	Yes**	Yes**
DSM2 11ms	No	No	No	Yes**	Yes**	Yes**	Yes **	Yes **	Yes**	Yes**	Yes**	Yes**	Yes**	Yes**
X-plus support	No	No	No	No	No	No	No	Yes	Yes	No	No	No	No	No
Antenna														
Adjustable	No	No	Yes	Yes	n/a	n/a	n/a	n/a	n/a	Yes	Yes	Yes	n/a	n/a
Single fixed	Yes	Yes	Yes	Yes	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Diversity (2 fixed)	n/a	n/a	No	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Battery														
Included battery	4 x AA	4 x AA	4 x AA	4 x AA	4 x AA	2000mAh Lithium Ion	2000mAh Lithium Ion	2600mAh LiPo	4000mAh LiPo	2000mAh Lithium Ion	2000mAh Lithium Ion	6000mAh Lithium Ion	6000mAh Lithium Ion	10500mah LiIon
Included battery model number	n/a	n/a	n/a	n/a	n/a	SPMA9602	SPMB2000LPTX	SPMB2600LPTX	SPMB4000LPTX	SPMB2000LITX1S	SPMB2000LITX1S	SPMB6000LITX	SPMB6000LITX	SPMB6000LITX
Charger power supply included	No	No	n/a	n/a	No	Yes	Yes	Yes	Yes	No	No	No	Yes	Yes
Internal charger for lithium battery packs	No	No	Included in optional 2000mAh LI pack (SPMA9602)	Included in optional 2000mAh LI pack (SPMA9602)	Included in optional 2000mAh LI pack (SPMA9602)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Battery chemistries supported***	A,N, LI, LP	A	A, N, LI, LP	A, N, LI, LP	A, N, LI, LP	A, N, LI, LP	A, N, LI, LP	N, LI, LP	N, LI, LP	LI	LI	LI	LI	LI
Micro Cable Included	No	No	No	No	No	No	No	No	No	Yes	Yes	No	Yes	No
Magnetic USB to USB Micro Cable Included w/ Magnetic Adapter	No	No	No	No	No	No	No	No	No	No	No	Yes	No	Yes
Switches														
Push button/momentary ****	2	1	1	1	1	1	1	1	1	1	1	1	1	1
2 position toggle	3	2	4	2	4	2	2	2	2	2	2	2	2	4
3 position toggle	3	2	3	5	3	5	6	6	6	5	6	6	6	6
Digital Trimmers	0	0	0	0	0	0	2	2	2	0	2	2	2	4
Sliders														
Number	0	0	0	0	0	0	2	2	2	0	0	2	2	2
Position	n/a	n/a	n/a	n/a	n/a	n/a	Back	Side	Side	n/a	n/a	Back	Back	Side
Rotary knob														
Number	n/a	n/a	0	1	0	1	1	1	1	0	1	1	1	1
Position	n/a	n/a	n/a	Front Right	n/a	Front Right	Top Right	Top Right	Top Right	n/a	Top Right	Top	Top Right	Top Right
LCD display														
Resolution	n/a	n/a	192x96 Mono	192x96 Mono	192x96 Mono	192x96 Mono	192x96 Mono	192x96 Mono	192x96 Mono	320x240 Color	320x240 Color	320x240 color	800x480 Color	1024x720 Color
Backlight	n/a	n/a	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
General software														
Multi-engine feature	No	No	No	No	No	No	No	No	Yes (Acro only)	No	No	No	No	Yes
User-upgradeable firmware by SD or WiFi	No	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes (via WiFi or SD)	Yes (via WiFi or SD)	Yes (via WiFi or SD)	Yes (via WiFi or SD)	Yes (via WiFi or SD)
Model cross-compatibility	No	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Programmable rates & expo	Yes•	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Model to SD card save/load	Yes• No SD Card Support	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ModelMatch	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Cross trim support	No	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Active gyro & governor trim	No	No	No	No	No	No	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes
Sequencer	No	No	0	2	0	0	2	5	5	0	2	5	5	5
SAFE/AS3X Support w/Panic Button	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Video Transmitter Control	No	No	Yes	Yes	Yes (w/ update)	Yes (w/ update)	Yes (w/ update)	Yes (w/ update)	No	Yes	Yes	Yes	Yes	Yes
Spektrum Lap Timer Support	No	No	Yes	Yes	Yes (w/ update)	Yes (w/ update)	Yes (w/ update)	Yes (w/ update)	No	Yes	Yes	Yes	No	No
Android App Expandability	No	No	No	No	No	No	No	No	No	No	No	No	Yes	Yes
Smart Telemetry Support	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Forward Programming	No	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Internal Memory with BNF Presets	No	No	No	No	No	No	No	No	No	Yes	Yes	Yes	No	No
Speech to Text w/ Microphone	No	No	No	No	No	No	No	No	No	No	No	No	No	Yes
Touch Switch Events	No	No	No	No	No	No	No	No	No	No	No	No	No	Yes
Servo setup														
Reverse	Yes•	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Sub trim	Yes•	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Travel Adjust	Yes•	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Servo Balancing	No	No	No	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Adjustable servo speed	No	No	No	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Absolute travel adjustment	No	No	No	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Servo monitor shortcut from main screen	No	No	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Pro Trim	No	No	No	No	No	No	No	No	Yes	No	No	No	No	No (OTF)
Model types														
Airplane	Yes•	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Sailplane	No	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Helicopter	Yes•	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Multi-Rotor	No	No	Yes	Yes	Yes	Yes	Yes	Yes (w/update)	Yes	Yes	Yes	Yes	Yes	Yes
Alerts														
Tone alerts	Limited	Limited	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Voice alerts	No	No	No	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Vibration alerts	No	No	No	No	No	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Flight modes														
Airplane	3	3	3	3	3	3	5	5	5	10	10	10	5	10
Sailplane	0	0	5	10	5	10	10	10	10	10	10	10	10	10
Helicopter	4	4	4	4	4	4	5	5	5	4	5	5	5	5
Muli-Rotor	n/a	n/a	5	5	5	5	5	5	5	3	10	10	5	5
Mixing														
Number of curve points	0	0	7	7	7	7	7	7	7	7	7	7	7	7
Preset mixes	0	0	3	2	3	3	3	3	3	3	3	3	3	3
Flap delay with Elevator compensation	No	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Programmable mixes	0	0	4	10	5	10	10	16	16	12	Yes	12	12	24
Curve-able Mixes (smooth)	0	0	4	10	5	8	8	8	8	8	8	8	8	24
Normal Only	0	0	0	0	0	0	2	8	8	4	4	4	4	0
Mix rate increment	0	0	1.00%	1.00%	1.00%	1.00%	1.00%	0.50%	0.50%	1.00%	1.00%	1.00%	1.00%	1.00%
Origin mixing	No	No	No	No	No	No	No	Yes	Yes	No	No	No	Yes	Yes
Timers														
Timers	0	0	2	2	2	2	2	2	2	2	2	2	2	2
Throttle start	n/a	n/a	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Switch start	n/a	n/a	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Airplane wing types														
Single aileron	Yes•	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Dual aileron	Yes•	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Flaperon	No	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Single aileron, single flap	Yes•	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Elevon	Yes•	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Elevon-B	Yes•	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Dual aileron + single flap	No	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Single aileron + dual flap	No	No	No	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Dual aileron + dual flap	No	No	No	Yes	No	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes
Quad aileron (biplane configuration)	No	No	No	No	No	No	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes
Six aileron (large 3D configuration)	No	No	No	No	No	No	No	Yes	Yes	No	No	Yes	Yes	Yes
Airplane tail types														
Normal	Yes•	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
V-tail A	No	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
V-tail B	No	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Dual elevator	No	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Dual rudder	No	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Dual rudder + dual elevator	No	No	Yes	Yes	No	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes
1 Canard servos with Elevon	No	No	No	No	No	No	No	Yes	Yes	No	No	No	No	Yes
2 Canard servos with Elevon	No	No	No	No	No	No	No	Yes	Yes	No	No	No	No	Yes
Sailplane wing types														
Single aileron	n/a	n/a	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Dual aileron	n/a	n/a	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Dual aileron + single flap	n/a	n/a	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Dual aileron + dual flap	n/a	n/a	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes
Quad aileron + dual flap	n/a	n/a	No	No	No	Yes	Yes	Yes	Yes	No	No	Yes	Yes	Yes
Sailplane tail types														
Normal	n/a	n/a	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
V-tail A	n/a	n/a	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
V-tail B	n/a	n/a	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Sailplane specific features														
Sailplane camber preset	n/a	n/a	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Motor throttle switch assign	n/a	n/a	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Helicopter swashplate types														
Normal	n/a	n/a	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
3-servo 120º	n/a	n/a	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
3-servo 135º	n/a	n/a	No	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes
3-servo 140º	n/a	n/a	No	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes
3-servo 90º	n/a	n/a	No	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes
4-servo 90º	n/a	n/a	No	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes
2-servo 180º	n/a	n/a	No	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes
Multi-rotor aircraft types														
Camera: None, 1-Axis, 2-Axis, 3-Axis	No	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Helicopter specific features														
5-point throttle curve	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
7-point throttle curve	n/a		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
5-point pitch curve	n/a	No	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
7-point pitch curve	n/a	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
7-point tail curve	n/a	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Swashplate timing	n/a	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Cyclic-to-throttle mix	n/a	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Swashplate timing mix	n/a	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Differential														
Airplane: Aileron, Elevon, & V-tail	No	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Sailplane: Aileron, Elevon, & V-tail	No	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Switch customization														
Assignable switches	Yes •	No	All	All	All	All	All	All	All	All	All	All	All	All
Digital switch setup	No	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Analog switch setup	No	No	No	Yes	No	No	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes

NOTES:
(♦) – Requires removing the back of the transmitter
(*) – DSMX/11ms not available in EU, but is available in US
(Δ) - Requires SPMA3091 Adapter
(**) – DSM2 not available in EU, but is available in US
(***) – Chemistries A=Alkaline, N = NiMH, LI = LiIon, LP = LiPo
(****) – Trainer button can be used as momentary input, as well as CLEAR and BACK in some situations
(•) – Via Mobile Application

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