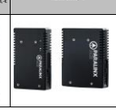
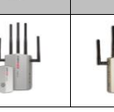
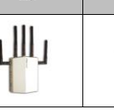
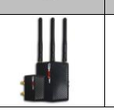
Wireless HD-Comparison Chart © by bandpro MUNICH GMBH

Model	Bolt 300	Bolt 500	Bolt 600	Bolt 1000	Bolt 2000	Bolt 3000	Sidekick Rx	Sidekick II Rx	Bolt 10K Rx	ACE	Arrow-X	Dart	Tomahawk	Tomahawk2	Connex	Connex Fusion Rx	Connex LR Long Range Rx	Connex Mini	S-4904	S-4914	S-4915
Video Interface	3G-HD-SD-SDI HDMI	3G-HD-SD-SDI, HDMI or Dual Format	3G-HD-SD-SDI HDMI	3G-HD-SD-SDI or Dual Format	3G-HD-SD-SDI HDMI	3G-HD-SD-SDI or Dual Format	3G-HD-SD-SDI or HDMI	3G-HD-SD-SDI	Dual Format (3G-HD-SD-SDI & HDMI)	3G-HD-SD-SDI or HDMI	3G-HD-SD-SDI HDMI	TX: sheeye HDMI RX: HDMI or HD-SDI	3G-HD-SD-SDI HDMI	3G-HD-SD-SDI HDMI	HDMI	HDMI	HDMI	HDMI	3G-HD-SD-SDI HDMI	3G-HD-SD-SDI HDMI	3G-HD-SD-SDI HDMI
Range (LoS)	300 ft / 91 meter	500 ft / 152 meter	600 ft / 182 meter	1000 ft/ 305 meter	2.000 ft / 609 meter	3.000 ft/ 915 meter	300 ft / 91 meter	300ft / 91 meter	10.000ft/ 3.000m	300 ft / 91 meter	750 ft / 213 meter	1.000ft / 300 meter	2.000 ft / 609 meter	2.000ft / 609 meter	3.300 ft / 1.000 meter	3.300ft / 1.000 meter	10.000 ft/ 3.000 meter ft. up to 40Km multi-directional	1.600 ft / 487 meter	2.200 ft / 700 meter	2.200 ft / 700 meter	492 ft / 150 meter
Video Resolution	Uncompressed 1080p: 60/59.94/50/30/29.97/25/24/23.98 1080psf: 30/29.97/25/24/23.98 1080i: 60/59.94/50 720p: 60/59.94/50 SD: 480i(NTSC)/576i(PAL)	Uncompressed 1080p: 60/59.94/50/30/29.97/25/24/23.98 1080psf: 30/29.97/25/24/23.98 1080i: 60/59.94/50 720p: 60/59.94/50 480p: 59.94/59.94/50 (via HDMI ports only) 480i: (NTSC)/576i(PAL)	Uncompressed 1080p: 60/59.94/50/30/29.97/25/24/23.98 1080psf: 30/29.97/25/24/23.98 1080i: 60/59.94/50 720p: 60/59.94/50 480p: 59.94/59.94/50 (via HDMI ports only) 480i: (NTSC)/576i(PAL)	Uncompressed 1080p: 60/59.94/50/30/29.97/25/24/23.98 1080psf: 30/29.97/25/24/23.98 1080i: 60/59.94/50 720p: 60/59.94/50 480p: 59.94/59.94/50 (via HDMI ports only) 480i: (NTSC)/576i(PAL)	Uncompressed 1080p: 60/59.94/50/30/29.97/25/24/23.98 1080psf: 30/29.97/25/24/23.98 1080i: 60/59.94/50 720p: 60/59.94/50 480p: 59.94/59.94/50 (via HDMI ports only) 480i: (NTSC)/576i(PAL)	Uncompressed 1080p: 60/59.94/50/30/29.97/25/24/23.98 1080psf: 30/29.97/25/24/23.98 1080i: 60/59.94/50 720p: 60/59.94/50 480i: (NTSC)/576i(PAL)	Uncompressed 1080p: 60/59.94/50/30/29.97/25/24/23.98 1080 psf/30/29.97/25/24/23.98 1080i: 60/59.94/50 720p: 60/59.94/50 480i: (NTSC)/576i(PAL)	Uncompressed 1080p: 60/59.94/50/30/29.97/25/24/23.98 1080psf: 30/29.97/25/24/23.98 1080i: 60/59.94/50 720p: 60/59.94/50 480p: 59.94/59.94/50 (via HDMI ports only) 480i: (NTSC)/576i(PAL)	Uncompressed 1080p: 60/59.94/50/30/29.97/25/24/23.98 1080psf: 30/29.97/25/24/23.98 1080i: 60/59.94/50 720p: 60/59.94/50 480p: 59.94/59.94/50 (via HDMI ports only) 480i: (NTSC)/576i(PAL)	Uncompressed, up to 1080p/60	1080p: 60/50/29.97/24/23.98 1080psf: 25/24/23.98 1080i: 59.94/50 720p: 59.94/50 625i: 50 525i: 59.94	1080i- 60/59.97/50/ 1080p- 30/29.97/25/24/23.98 720p- 60/59.94/50 1080- 59.94/50 480p- 59.94/57 576p- 50 480i (NTSC) 576i (PAL)	1080p- 60/50/29.97/24/23.98 1080psf- 25/24/23.98 1080i- 59.94/50 720p- 59.94/50 625i- 50 525i- 59.94	1080p- 60/50/29.97/24/23.98 1080psf: 25/24/23.98 1080i- 59.94/50 720p- 59.94/50 625i- 50 525i- 59.94	1080p: 60/50/29.97/24/23.98 1080psf: 25/24/23.98 1080i- 59.94/50 720p: 59.94/50 625i- 50 525i- 59.94	1080p- 60/50/29.97/24/23.98 1080psf: 25/24/23.98 1080i- 59.94/50 720p- 59.94/50 625i- 50 525i- 59.94	1080p: 60/50/30/25/24 1080i- 60/50 720p- 60/50 625i- 50	1080p: 60/50/30/24 1080psf: 30/25/24 1080i: 60/50 720p: 60/50 625i: 50	Connex LR: 1080p: 60/50/30/24 1080psf: 30/25/24 1080i: 60/50 720p: 60/50 625i: 50 Connex LR Long Range Rx: up to 40Km multi-directional	1080p: 60/50/30/24 1080i: 60/50 720p: 60/50 625i: 50	1080P (60 / 59.94 / 50) 1080i (60 / 59.94 / 50) 1080p (30 / 29.97 / 25 / 24 / 23.98) 1080psf (30 / 29.97 / 25 / 24 / 23.98) 720p (60 / 59.94 / 50) 480i (59.94) 576i (50)	1080P (60 / 59.94 / 50) 1080i (60 / 59.94 / 50) 1080p (30 / 29.97 / 25 / 24 / 23.98) 1080psf (30 / 29.97 / 25 / 24 / 23.98) 720p (60 / 59.94 / 50) 480i (59.94) 576i (50)	1080P (60 / 59.94 / 50) 1080i (60 / 59.94 / 50) 1080p (30 / 29.97 / 25 / 24 / 23.98) 1080psf (30 / 29.97 / 25 / 24 / 23.98) 720p (60 / 59.94 / 50) 480i, 576i
Latency/Delay	<1 ms	<1 ms	<1 ms (when no video format conversion is switched)	<1 ms (when no video format conversion is switched)	<1 ms (when no video format conversion is switched)	<1 ms (when no video format conversion is switched)	<2 ms	<2 ms	<0.083sec (without format conversion)	<1 ms	< 1 ms	< 1 ms	< 1 ms	< 1 ms	< 1 ms	< 1 ms	< 1 ms	< 1 ms	< 1 ms	< 1 ms	< 1 ms
Uni-/Multicast Mode	Multicast - up to 4 Rx	Multicast - up to 4 Rx	Multicast - up to 4 Rx	Multicast - up to 4 Rx	Multicast - up to 4 Rx	Multicast - up to 4 Rx	Multicast - up to 4 Rx	Multicast - up to 4 Rx	Multicast - up to 4 Rx	Multicast - up to 4 Rx	Multicast - up to 4 Rx	Multicast - up to 4 Rx	Multicast - up to 4 Rx	Multicast - up to 4 Rx	Multicast - up to 4 Rx	Multicast - up to 4 Rx	Multicast - up to 4 Rx	Multicast - up to 4 Rx	Multicast - up to 4 Rx	Multicast - up to 4 Rx	Multicast - up to 4 Rx
Frequency (dynamic frequency selection)	DFS	DFS	DFS	DFS	DFS	DFS	DFS	DFS	DFS	DFS	DFS	DFS	DFS	DFS	DFS	DFS	DFS	DFS	manual Selection	manual Selection	manual Selection
Color Sampling	YCbCr/4:2:2, 8-bit RGB 4:4:4	YCbCr = 4:2:2, 8-bit for SDI (10-bit with no format conversion and FPGA v 1.1.0 or later); RGB 4:4:4 (HDMI out, 8-bit color)	Depends on the input/output types and RX settings; SDI 10-bit with no format conversion and FPGA v 1.1.0 or later, 8-bit colors for the rest	YCbCr = 4:2:2, 8-bit for SDI (10-bit with no format conversion and FPGA v 1.1.0 or later); RGB 4:4:4 (HDMI out, 8-bit color)	Depends on the input/output types and RX settings; SDI 10-bit with no format conversion and FPGA v 1.1.0 or later, 8-bit colors for the rest	YCbCr = 4:2:2, 8-bit for SDI (10-bit with no format conversion and FPGA v 1.1.0 or later); RGB 4:4:4 (HDMI out, 8-bit color)	YCbCr = 4:2:2 (10-bit color)	For SDI: YCbCr 4:2:2, 10-bit	SDI: YCbCr 4:2:2, 10-bit (8-bit when format conversion is enabled) HDMI: RGB 4:4:4, 8-bit	tba	tba	4:2:2, 8-bit	4:2:2, 8-bit	4:2:2, 8-bit	tba	tba	tba	tba	tba
Inputs	3G-HD-SD-SDI HDMI Dual Format	3G-HD-SD-SDI HDMI Dual Format	3G-HD-SD-SDI HDMI Dual Format	3G-HD-SD-SDI HDMI Dual Format	3G-HD-SD-SDI HDMI Dual Format	3G-HD-SD-SDI HDMI Dual Format	none, just Receiver	none, just Receiver	via wireless	HD-SDI or HDMI	HD-SDI or HDMI	Micro-HDMI	HD-SDI or HDMI	HD-SDI and HDMI (on TX)	Mini HDMI	none, just Receiver	none, just Receiver	Micro HDMI	3G/HD/SD-SDI or HDMI	3G/HD/SD-SDI or HDMI	3G/HD/SD-SDI or HDMI
Outputs	depends on Input	depends on Input	depends on Input	depends on Input	depends on Input	depends on Input	HD-SDI or HDMI	HD-SDI	3G-HD-SD-SDI & HDMI	HD-SDI or HDMI	HD-SDI or HDMI	SDI or HDMI	HD-SDI or HDMI	HD-SDI	HDMI	HDMI	HDMI	HDMI	3G/HD/SD-SDI or HDMI	3G/HD/SD-SDI or HDMI	3G/HD/SD-SDI or HDMI
Audio Format	24-bit 48kHz PCM	24-bit 48kHz PCM	24-bit 48kHz PCM	24-bit 48kHz PCM	24-bit 48kHz PCM	24-bit 48kHz PCM	24-bit 48kHz PCM	24-bit 48kHz PCM	48kHz 24-bit PCM			48kHz, 24-bit PCM	LCL PCM, S/PDIF, AC-3, DTS, DOLBY 5.1	tba	no audio transmission	no audio transmission	no audio transmission	no audio transmission	2-ch SDI/HDMI embedded audio transmission	2-ch SDI/HDMI embedded audio transmission	2-ch SDI/HDMI embedded audio transmission
Power Input	2-pin LEMO 7-28 VDC	2-pin LEMO 7-28 VDC	2-pin LEMO 7-28 VDC	2-pin LEMO 7-28 VDC	2-pin LEMO 7-28 VDC	2-pin LEMO 7-28 VDC	2-Pin Lemo 7-17 VDC	2-Pin Lemo 7-17 VDC	2-Pin Connector 7-28 VDC or V-Mount Battery	TX: Barrel Cable RX: AC Adapter	2-pin LEMO-type female	RX SDI: 2pin Lemo RX HDMI: Barrel TX: 5V/2.5A micro-USB or Canon LP-E6	2-pin LEMO-type female	2-pin LEMO	Air Unit: 4-pin Ground Unit: DC Jack	DC Jack	DC Jack	Air Unit: 4-pin Ground Unit: DC Jack	V-mount/ Gold Mount connection	Various DV plates optional	Various DV plates optional
Power Consumption	TX: 6,5 W RX: 8,5 W	TX: 7,5 W RX: 8,5 W	TX: 7,8 W RX: 8,5 W	TX: 7,5 W RX: 8,5 W	TX: 7,2 W RX: 8,5 W	TX: 7,5 W RX: 8,5 W	7.5W	6,9W	8.5 W	7-17 V	7-17 V	7-12 V	7- 17 V	6-28 V	Air Unit: 8-28 V Ground Unit: 7-19 V	7-19 V	tba	Air Unit: 6-28 V Ground Unit: 9-28 V	6.5-17 V	6.5-17 V	6.5-17 V
Dimensions	TX: 2,7x 6,4x 11,2 cm RX: 2,5x 8,9x 14,7 cm	TX: 2,4x 6,6x 10,2 cm RX: 2,5x 8,9x 14,7 cm	TX: 2,7x 6,4x 10,9 cm RX: 2,5x 8,9x 14,7 cm	TX: 2,4x 6,6x 10,2 cm RX: 13,9x 8,9x 2,5 cm	TX: 2,6x 6,6x 10,9 cm RX: 2,5x 8,9x 14,7 cm	TX: 2,4x 6,6x 10,2 cm RX: 13,9x 9,9x 2,5 cm	TX: 2,4x 6,6x 10,2 cm RX: 13,9 x	22 x 85 x 11,5 cm	2,5x 8,4x 11,4cm	23,6x 23,6x 6,62cm	TX: 6,7x 11,9x 1,5 cm RX: 8,6x 11,5x 1,5 cm	TX:10,8x 6,7x 2,1 cm RX: 14,3x 12,8x 3,3 cm	TX: 6,8x 5,5x 2,5 cm RX: 8,6x 11,5x 1,5 cm	TX: 2x 6,8x 10 cm RX: 3,3x 12,7x 14,2 cm	TX: 30,4x 6,6x 2,2 cm RX: 11,7x 8,8x 2,2 cm	Air Unit: 10,3x 6,8x 1,6 cm Ground Unit: 12,9x 8,9x 2 cm	Air Unit: 13,2x 6,9x 2 cm Ground Unit: 20,2 x	12,9x 8,9x 2 cm	20x 20x 5 cm	Air Unit: 6,6x 4,5x 1,5 cm Ground Unit: 10x 7,1x 1,7 cm	TX: 9,3x 14,5x 6,3 cm RX: 13x 18,8x 4,7 cm	TX: 7,1x 13x 3,7 cm RX: 13x 18,8x 4,7 cm	TX: 6,8x 12,5x 3,5 cm RX: 9,5x 15,2x 3,5 cm
Weight	TX: 262 g RX: 346 g	TX: 217 g RX: 359 g	TX: 282 g RX: 376 g	TX: 230 g RX: 376 g	TX: 270 g RX: 360 g	TX: 226 g RX: 370 g	288 g	288 g	1179 g	HD-SDI TX: 146g RX: 160g HDMI TX: 159g RX: 165g	TX: 178 g RX: 360 g	TX: 100g RX: 359g	TX: 179 g RX: 360 g	TX: 208g RX: 353g	Air Unit: 130 g Ground Unit: 260 g	290 g	tba	Air Unit: 60 g Ground Unit: 140 g	TX: 572 g RX: 767 g	TX: 300 g RX: 767 g	TX: 271 g RX: 380g
External Antennas	no	no	yes	yes	yes	tbs	no	no	no	no	yes	yes	yes	yes	yes 2 and 5	yes	integrated Directional + 1	yes: 2 and 3	yes	yes	yes on Tx
Metadata/Timecode	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	no	yes	yes	yes	yes	yes	yes	yes	yes	tba
Manual Frequency Selection	yes (via Bolt Manager)	yes (via Bolt Manager)	yes (via Bolt Manager)	yes (via Bolt Manager)	yes (via Bolt Manager)	tba	no	no	Configurable Channel selection	no	yes (via Peraline Manager)	no	yes (via Peraline Manager)	yes (via Peraline Manager)	yes via ConnexManagement Tool	yes via ConnexManagement Tool	yes via ConnexManagement Tool	yes via ConnexManagement Tool	yes	yes	yes
Mounting	1/4" - 20inch Thumb Screw 1/2" - 20inch Lightstand adapter	1/4" - 20inch Thumb Screw 1/2" - 20inch Lightstand adapter	1/4" - 20inch Thumb Screw 1/2" - 20inch Lightstand adapter	1/4" - 20inch Thumb Screw 1/2" - 20inch Lightstand adapter	1/4" - 20inch Thumb Screw 1/2" - 20inch Lightstand adapter	1/4" - 20inch Thumb Screw 1/2" - 20inch Lightstand adapter	Base:Milled aluminum ¼-20 and 2x4-40	Base:Milled aluminum ¼-20 and 2x4-40	Multiple mounting options with 3/8" holes	1/4" thumb Screw	1/4 " thread	1/4-20 & 4/40 integrated mounting holes	TX: 2x 1/4" -20 threads	1/4-20 & 4-40 mounting points	Ground Unit: 1/4" thread	Ground Unit: 1/4" thread	1/4" thread	Ground Unit: 1/4" thread	Crap clamp and Articulatin arm treslie included or fixed on camera with V-mount or Gold mount plates and 1/4" thread	Crap clamp and Articulatin arm treslie included 1/4" thread RX is equiped with Gold V-mount or Gold mount plates	Crap clamp and Articulatin arm treslie included 1/4" thread RX is equiped with Gold V-mount or Gold mount plates
Specific Features	* Teradek Bolt Manager !!!DISCONTINUED!!!	* Teradek Bolt Manager * Built-in HDMI to SDI converter * 20% Smaller Chassis * Rapid Reconnection after dropped link * Individual identity with removable colored top plates * two new DFS Channels	* HDMI/SDI Out Format - Select the video output format: Same As Input, 480i, 576i 720p: 50/59/60 1080i: 50/59/60 1080p/i 23/24, 1080p: 23/24/25/29/30/50/59/60 * Teradek Bolt Manager !!!DISCONTINUED!!!	* SDI Version contains 1x Type A receptacle HDMI output for HD-SDI to HDMI Conversion * Rapid Reconnection after dropped link * Individual Identity with removable colored top plates * two new DFS Channels * Teradek Bolt Manager	* HDMI/SDI Out Format - Select the video output format: Same As Input, 480i, 576i 720p: 50/59/60 1080i: 50/59/60 1080p/i 23/24 1080p: 23/24/25/29/30/50/59/60 * Teradek Bolt Manager !!!DISCONTINUED!!!	* SDI Version contains 1x Type A receptacle HDMI output for HD-SDI to HDMI Conversion * Rapid Reconnection after dropped link * Individual Identity with removable colored top plates * two new DFS Channels * Teradek Bolt Manager	* Bolt Sidekick is a lightweight universal companion receiver up to 300ft. For use with Teradek Bolt Pro 300, 600 and 2000 systems. * Also useable with Paralinx ACE, Tomahawk and Arrow-X * Ideal solution for 1st AC's and Director's handheld monitors. * Teradek Bolt Manager * do not support TC, Slate/Stop flags * not support PoE signa input when paired with Paralinx Arro-X/Tomahawk Tx	* Bolt Sidekick II (2nd Generation) is a lightweight universal companion receiver up to 300ft. For use with Teradek Bolt Pro 300, 600 and 2000 systems. * Ideal solution for 1st AC's and Director's handheld monitors. * Teradek Bolt Manager	*Pair with Bolt 3000 Tx * Super-long-range (10.000ft/ 3km) * Works alongside Bolt 3000, 703 Bolt, Sidekick II Rx Fully-integrated panel antenna Built-in Gold- or V-Mount battery plate * Buy as Set with Bolt 3000 Tx or single 10K Rx	* get threaded inserts for attaching onboard battery plates - LP-E6 - BP-9 - BP-U - L-Series * HDMI- Barrel Connector HD-SDI- Lemo Connector * Paralinx Manager	*Various Battery Plates available * Paralinx Manager	* 5V Micro-USB power output can power a GoPro camera or any other USB-powered device. Input power options on Tx: Integrated LP-E6 battery plate or Micro-USB * Operating Temperature: 0-40 °C * Run/Stop Commands: not supported * Peraline Manager	*Various Battery Plates available * Paralinx Manager !!!DISCONTINUED!!!	* Dual-Input Transmitter (HD-SDI & HDMI) * RX is lighter and 60% smaller than Tomahawk * Compatible with Teradek Bolt 2000, Sidekick and Paralinx Tomahawk 1st Gen	* Gimbal Control over Futaba S.Bus * OSD Support: -Telemetry information (high, vertical and ground speed, flight mode) - default information (Distance to ground Unit, Power voltage level, signal strength) overlay on video, * "new" manual channel selection * 40/20 MHz bandwidth adjustable * Adjustable between 25mW and 200mW * Connex Management Tool	* UNIVERSAL Receiver for use with Connex AND Connex Mini Air Units * Coverage: Horizontal 60/Vertical20° (Directional) up to 400m coverage 360° (omni-directional) * Gimbal Control over Futaba S.Bus * Telemetry information (high, vertical and ground speed, flight mode) * default information (Distance to ground Unit, Power voltage level, signal strength) overlay on video, * Connex Management Tool	* UNIVERSAL Receiver for use with Connex AND Connex Mini Air Units * Coverage: Horizontal 60/Vertical20° (Directional) up to 400m coverage 360° (omni-directional) * Gimbal Control over Futaba S.Bus * Telemetry information (high, vertical and ground speed, flight mode) * default information (Distance to ground Unit, Power voltage level, signal strength) overlay on video, * Connex Management Tool	* Gimbal Control over Futaba S.Bus * OSD Support: -Telemetry information (high, vertical and ground speed, flight mode) - default information (Distance to ground Unit, Power voltage level, signal strength) overlay on video * Connex Management Tool	Battery Plates: * V-Mount or Gold Mount optional available	Battery Plates: F -> SONY NP-F970/770, SWIT-S-8072, S-8070 U -> SONY BP-U60/U90, SWIT S-8U63 D -> Panasonic VW-VBD58, CGA-D54; SWIT S-8D2/8D58 B -> Panasonic VW-VBG6, SWIT S-8BG6 V -> JVC BN-VF823, SWIT S-8823 I -> SSL-IATC60, SWIT S-8I50 C -> Canon BP-945/970G SWIT-S-8945, S-8945 E -> Canon LP-E6, SWIT S-8PE6	Battery Plates: F -> SONY NP-F970/770, SWIT-S-8072, S-8070 U -> SONY BP-U60/U90, SWIT S-8U63 D -> Panasonic VW-VBD58, CGA-D54; SWIT S-8D2/8D58 B -> Panasonic VW-VBG6, SWIT S-8BG6 V -> JVC BN-VF823, SWIT S-8823 I -> SSL-IATC60, SWIT S-8I50 C -> Canon BP-945/970G SWIT-S-8945, S-8945 E -> Canon LP-E6, SWIT S-8PE6
NET Price Aprox.	...	HDMI: 2.112,- € HD-SDI: 2.668,- € Dual Format: 3.204,- €	...	HD-SDI: 5.882,-€ Dual Format: 6.418,- €	...	HD-SDI: 10.168 € Dual Format: 10.704,- €	HDMI: 1.918,- € HD-SDI: 2.132,- €	HD-SDI: 2.346,- €	Bolt 10K single Rx: 7.338,-€ Bolt 10K Rx with Bolt 3000 TX Set:12.838,-€	HDMI: 1.061,- €	HDMI: 3.195,- €	HDMI TX/ HDMI RX: 2.021,-€ HDMI TX/ HD-SDI RX: 2.136,-€	...	Dual Format : 7.905,-€ Deluxe Package V-Mount: 8.875,-€	1.389,-€	1.010,-€	1.768,-€	1.231,-€	3.500,-€	3.500,-€	2.400,-€
Picture																					

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Date: March, 2018

*all prices excludes VAT
*errors omissions excepted
*Prices subject to change without notice