

Radar Systems
Zond Aero 500
GPR system
datasheet



Radar Systems Zond Aero 500 GPR system datasheet

The system can be used for both airborne and terrestrial surveys.

Center frequency S00 MHz C12 dB Operating bandwidth 200-900 MHz (-12 dB Samples 512 per trace Sample rate 25,600 samples/second Scan rate 25,600 samples/second Sample output 16 bit digital raw data Time range Depth Up to 4 meters in average normal soil with 100ns time range. Data format Standard Geophysical SEGY Data Format (.sgy) with traces geotagging Vertical filters Off, Digital Horizontal filters 1-10 Linear gain Off, Digital Gain points 1-10 Linear gain Off, Digital Data storage Raw data storage with memory for Gain used Data file size Limited only by available SD (airborne surveys) or HDD space (ground surveys) ENVIRONMENTAL Temperature -20°C to 60°C internal temperature Humidity 96% non-condensing Ingress protection IP58 in protective box (used for transportation and for ground surveys) IP52 in airborne variant MECHANICAL Size (L x W x H) 41 x 31 x 16 cm - airborne configuration 52 x 43 x 21 cm - protective transportation box (for terrestrial surveys) 71 x 45 x 28 cm - carton box for delivery Weight 2.1 kg - airborne configuration without mounting kit for the drone 7.1 kg - in protective transportation box 10.0 kg - weight in carton box for delivery BATTERY Airborne variant DJI M300 RTK or M600/M600 Pro drone main battery is used to provide power to the GPR using standard power socket of the drone intended for payload Ground surveys Battery is integrated in protective box, operating time up to 12 hours 99 W/h Li-ion battery integrated into the case (used for ground surveys) 99 W/h Li-ion battery integrated into the case (used for ground surveys only) Wi-Fi router integrated into the case (used for ground surveys only) Mascot charger Tow rope for terrestrial surveys Mounting kit to fix GPR system on the DJI M300 RTK/M600/M600 Pro drone	ANTENNA / GPR	Single channel Ground Penetrating Radar system with shielded antenna
Samples 512 per trace Sample rate 25,600 samples/second Scan rate 50 scans/s Sample output 16 bit digital raw data Time range Selectable time range 50, 100, 200 or 300ns. Depth Up to 4 meters in average normal soil with 100ns time range. Data format Standard Geophysical SEGY Data Format (.sgy) with traces geotagging Vertical filters Off, Digital Horizontal filters Stacking, Background removal Gain points 1-10 Linear gain Gain levels 0 to +84 dB Data storage Raw data storage with memory for Gain used Data file size Limited only by available SD (airborne surveys) or HDD space (ground surveys) ENVIRONMENTAL Temperature Humidity Ingress protection PES in airborne configuration Size (L x W x H) Size (B x X B x B x B x B x B x B x B x B x B	Center frequency	500 MHz
Sample rate Scan rate Scans/s Sample output I fib lit digital raw data Selectable time range 50, 100, 200 or 300ns. Depth Depth Dup to 4 meters in average normal soil with 100ns time range. Standard Geophysical SEGV Data Format (.sgy) with traces geotagging Vertical filters Vertical filters Goff, Digital Horizontal filters Stacking, Background removal 1-10 Linear gain Gain points Gain points Gain levels Data storage Raw data storage with memory for Gain used Limited only by available SD (airborne surveys) or HDD space (ground surveys) ENVIRONMENTAL Temperature Humidity 196% non-condensing Ingress protection Ingress protection Ingress protection Ingress protection Size (L x W x H) 41 x 31 x 16 cm - airborne configuration 52 x 43 x 21 cm - protective transportation box (for terrestrial surveys) 71 x 45 x 28 cm - carton box for delivery Weight 2.1 kg - airborne configuration without mounting kit for the drone 7.1 kg - in protective transportation box 10.0 kg - weight in carton box for delivery Airborne variant DJI M300 RTK or M600/M600 Pro drone main battery is used to provide power to the GPR using standard power socket of the drone intended for payload Ground surveys BATTERY Airborne variant DJI M300 RTK or M600/M600 Pro drone main battery is used to provide power to the GPR using standard power socket of the drone intended for payload Battery is integrated in protective box, operating time up to 12 hours 99 W/h Li-lon WHAT'S IN THE KIT Zond Aero 500 GPR system with 500 MHz center frequency antenna Prism 2 Data Acquisition/Processing software NANUK transport case (also used for ground surveys) 99 W/h Li-lon battery integrated into the case (used for ground surveys only) Wi-Fi router integrated in to the case (used for ground surveys only) Wi-Fi router integrated into the case (used for ground surveys only) Mascot charger Tow rope for terrestrial surveys	Operating bandwidth	200-900 MHz (-12 dB)
Scan rate Sample output Time range Depth Deth Up to 4 meters in average normal soil with 100ns time range. Vertical filters Horizontal filters Gain points Gain levels Data forea Data file size Umited only by available SD (airborne surveys) or HDD space (ground surveys) Ip52 in airborne variant Weight Size (L x W x H) Size (L x W x H) Size (L x W x H) Weight Weight Weight Min 300 RTK or M600/M600 Pro drone main battery is used to provide power to the GPR using standard proves only) WhAT'S IN THE KIT Zond Aero 500 GPR system with 500 MHz center frequency antenna Prism 2 Data Acquisition/Processing software NANUK transport case (also used for ground surveys) 99 W/h Li-lon battery integrated into the case (used for ground surveys) 99 W/h Li-lon battery integrated into the case (used for ground surveys) Wish in care on figuration protective box, operating time up to 12 hours Prism 2 Data Acquisition/Processing software NANUK transport case (also used for ground surveys) 99 W/h Li-lon battery integrated into the case (used for ground surveys) Wish in transport case (also used for ground surveys) 99 W/h Li-lon battery integrated into the case (used for ground surveys only) Miscot charger Tow rope for terrestrial surveys	Samples	512 per trace
Sample output Time range Selectable time range 50, 100, 200 or 300ns. Depth Data format Vertical filters Gain points Horizontal filters Gain points Gain levels Data format Geophysical SEGY Data Format (.sgy) with traces geotagging The vertical filters Gain points Gain levels Data storage Raw data storage with memory for Gain used Limited only by available SD (airborne surveys) or HDD space (ground surveys) ENVIRONMENTAL Temperature Humidity Ge% non-condensing IP68 in protective box (used for transportation and for ground surveys) IP52 in airborne variant Weight Size (L x W x H) Weight 1.1 x 31 x 16 cm - airborne configuration 52 x 43 x 21 cm - protective transportation box (for terrestrial surveys) 71 x 45 x 28 cm - carton box for delivery Weight Airborne variant DJI M300 RTK or M600/M600 Pro drone main battery is used to provide power to the GPR using standard power socket of the drone intended for payload Ground surveys BATTERY Zond Aero 500 GPR system with 500 MHz center frequency antenna Prism 2 Data Acquisition/Processing software NANUK transport case (also used for ground surveys) 99 W/h Li-lon battery integrated into the case (used for ground surveys only) Wi-Fi router integrated into the case (used for ground surveys only) Mascot charger Tow rope for terrestrial surveys	Sample rate	25,600 samples/second
Time range Depth Up to 4 meters in average normal soil with 100ns time range. Data format Standard Geophysical SEGY Data Format (.sgy) with traces geotagging Vertical filters Stacking, Background removal Gain levels O to +84 dB Data storage Data file size Limited only by available SD (airborne surveys) or HDD space (ground surveys) ENVIRONMENTAL Temperature -20°C to 60°C internal temperature Humidity 96% non-condensing IP68 in protective box (used for transportation and for ground surveys) IP52 in airborne variant Size (L x W x H) 41 x 31 x 16 cm - airborne configuration 52 x 43 x 21 cm - protective transportation box (for terrestrial surveys) 71 x 45 x 28 cm - carton box for delivery Weight 2.1 kg - airborne configuration without mounting kit for the drone 7.1 kg - in protective transportation box 10.0 kg - weight in carton box for delivery BATTERY Airborne variant DJI M300 RTK or M600/M600 Pro drone main battery is used to provide power to the GPR using standard power socket of the drone intended for payload ground surveys 99 W/h Li-lon WHAT'S IN THE KIT Zond Aero 500 GPR system with 500 MHz center frequency antenna Prism 2 Data Acquisition/Processing software NANUK transport case (also used for ground surveys) 99 W/h Li-lon battery integrated into the case (used for ground surveys only) Wi-Fi router integrated into the case (used for ground surveys only) Mascot charger Tow rope for terrestrial surveys	Scan rate	50 scans/s
Depth Data format Standard Geophysical SEGY Data Format (.sgy) with traces geotagging Vertical filters Off, Digital Horizontal filters Stacking, Background removal Gain points 1-10 Linear gain Gain levels Data storage Raw data storage with memory for Gain used Data file size Limited only by available SD (airborne surveys) or HDD space (ground surveys) ENVIRONMENTAL Temperature Humidity 96% non-condensing IP68 in protective box (used for transportation and for ground surveys) IP52 in airborne variant Weight 2.1 kg - airborne configuration S2 x 43 x 21 cm - protective transportation box (for terrestrial surveys) 71 x 45 x 28 cm - carton box for delivery Weight 10.0 kg - weight in carton box for delivery BATTERY Airborne variant DJI M300 RTK or M600/M600 Pro drone main battery is used to provide power to the GPR using standard power socket of the drone intended for payload Ground surveys BATTERY Zond Aero 500 GPR system with 500 MHz center frequency antenna Prism 2 Data Acquisition/Processing software NANUK transport case (also used for ground surveys) 99 W/h Li-lon Hands Ground surveys only) Mascot charger Tow rope for terrestrial surveys	Sample output	16 bit digital raw data
Data format Vertical filters Off, Digital Horizontal filters Stacking, Background removal Gain points 1-10 Linear gain Gain levels Data storage Data storage Data file size Data file size ENVIRONMENTAL Temperature Humidity Ingress protection Ingress protection Ingress protection Size (L x W x H) Weight 2.1 kg - airborne configuration box 10.0 kg - weight in carton box for delivery Weight Airborne variant DII M300 RTK or M600/M600 Pro drone main battery is used to provide power to the GPR using standard power socket of the drone intended for payload Ground surveys BATTERY Airborne variant DII M300 RTK or M600/M600 Pro drone main battery is used to provide power to the GPR using standard power socket of the drone intended for payload Ground surveys WHAT'S IN THE KIT Zond Aero 500 GPR system with 500 MHz center frequency antenna Prism 2 Data Acquisition/Processing software NANUK transport case (also used for ground surveys) Wife ir outer integrated in to the case (used for ground surveys only) Wi-Fi router integrated into the case (used for ground surveys only) Mascot charger Tow rope for terrestrial surveys	Time range	Selectable time range 50, 100, 200 or 300ns.
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Horizontal filters Gain points Gain points Gain levels Data storage Raw data storage with memory for Gain used Data file size ENVIRONMENTAL Temperature Humidity Ingress protection IP68 in protective box (used for transportation and for ground surveys) IP52 in airborne variant Weight Weight Weight T1, 4 = in protective transportation box 10.0 kg – weight in carton box for delivery BATTERY Airborne variant DJI M300 RTK or M600/M600 Pro drone main battery is used to provide power to the GPR using standard power socket of the drone intended for payload Battery is integrated in protective box, operating time up to 12 hours 99 W/h Li-lon WHAT'S IN THE KIT Zond Aero 500 GPR system with 500 MHz center frequency antenna Prism 2 Data Acquisition/Processing software NANUK transport case (also used for ground surveys) Mascot charger Tow rope for terrestrial surveys	Data format	Standard Geophysical SEGY Data Format (.sgy) with traces geotagging
Gain points Gain levels Data storage Raw data storage with memory for Gain used Data file size ENVIRONMENTAL Temperature Humidity Ingress protection IP52 in airborne variant Weight Weight Airborne variant DJI M300 RTK or M600/M600 Pro drone main battery is used to provide power to the GPR using standard power socket of the drone intended for payload Ground surveys BATTERY Airborne variant Zond Aero 500 GPR system with 500 MHz center frequency antenna Prism 2 Data Acquisition/Processing software NANUK transport case (also used for ground surveys) 99 W/h Li-lon Weight Airborne configuration WHAT'S IN THE KIT Zond Aero 500 GPR system with 500 MHz center frequency antenna Prism 2 Data Acquisition/Processing software NANUK transport case (also used for ground surveys) 99 W/h Li-lon battery integrated into the case (used for ground surveys only) Wi-Fi router integrated in to the case (used for ground surveys only) Mascot charger Tow rope for terrestrial surveys	Vertical filters	Off, Digital
Gain levels Data storage Raw data storage with memory for Gain used Limited only by available SD (airborne surveys) or HDD space (ground surveys) ENVIRONMENTAL Temperature -20°C to 60°C internal temperature Humidity 96% non-condensing IP68 in protective box (used for transportation and for ground surveys) IP52 in airborne variant MECHANICAL Size (L x W x H) 41 x 31 x 16 cm - airborne configuration 52 x 43 x 21 cm - protective transportation box (for terrestrial surveys) 71 x 45 x 28 cm - carton box for delivery Weight 1 x 45 x 28 cm - carton box for delivery BATTERY Airborne variant DJI M300 RTK or M600/M600 Pro drone main battery is used to provide power to the GPR using standard power socket of the drone intended for payload Battery is integrated in protective box, operating time up to 12 hours 99 W/h Li-lon WHAT'S IN THE KIT Zond Aero 500 GPR system with 500 MHz center frequency antenna Prism 2 Data Acquisition/Processing software NANUK transport case (also used for ground surveys) 99 W/h Li-lon battery integrated into the case (used for ground surveys only) Wi-Fi router integrated into the case (used for ground surveys only) Mascot charger Tow rope for terrestrial surveys	Horizontal filters	Stacking, Background removal
Data storage Raw data storage with memory for Gain used Data file size Limited only by available SD (airborne surveys) or HDD space (ground surveys)	Gain points	1-10 Linear gain
Data file size Limited only by available SD (airborne surveys) or HDD space (ground surveys) ENVIRONMENTAL	Gain levels	0 to +84 dB
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Ingress protection IP68 in protective box (used for transportation and for ground surveys) IP52 in airborne variant MECHANICAL Size (L x W x H) 41 x 31 x 16 cm - airborne configuration 52 x 43 x 21 cm - protective transportation box (for terrestrial surveys) 71 x 45 x 28 cm - carton box for delivery Weight Weight 2.1 kg - airborne configuration without mounting kit for the drone 7.1 kg - in protective transportation box 10.0 kg - weight in carton box for delivery BATTERY Airborne variant DJI M300 RTK or M600/M600 Pro drone main battery is used to provide power to the GPR using standard power socket of the drone intended for payload Battery is integrated in protective box, operating time up to 12 hours 99 W/h Li-lon WHAT'S IN THE KIT Zond Aero 500 GPR system with 500 MHz center frequency antenna Prism 2 Data Acquisition/Processing software NANUK transport case (also used for ground surveys) 99 W/h Li-lon battery integrated into the case (used for ground surveys only) Wi-Fi router integrated into the case (used for ground surveys only) Mascot charger Tow rope for terrestrial surveys	Temperature	-20°C to 60°C internal temperature
IP52 in airborne variant MECHANICAL Size (L x W x H) 41 x 31 x 16 cm - airborne configuration 52 x 43 x 21 cm - protective transportation box (for terrestrial surveys) 71 x 45 x 28 cm - carton box for delivery Weight 2.1 kg - airborne configuration without mounting kit for the drone 7.1 kg - in protective transportation box 10.0 kg - weight in carton box for delivery BATTERY Airborne variant DJI M300 RTK or M600/M600 Pro drone main battery is used to provide power to the GPR using standard power socket of the drone intended for payload Ground surveys Battery is integrated in protective box, operating time up to 12 hours 99 W/h Li-Ion WHAT'S IN THE KIT Zond Aero 500 GPR system with 500 MHz center frequency antenna Prism 2 Data Acquisition/Processing software NANUK transport case (also used for ground surveys) 99 W/h Li-Ion battery integrated into the case (used for ground surveys only) Wi-Fi router integrated into the case (used for ground surveys only) Mascot charger Tow rope for terrestrial surveys	Humidity	96% non-condensing
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Size (L x W x H) 41 x 31 x 16 cm - airborne configuration 52 x 43 x 21 cm - protective transportation box (for terrestrial surveys) 71 x 45 x 28 cm - carton box for delivery Weight 2.1 kg - airborne configuration without mounting kit for the drone 7.1 kg - in protective transportation box 10.0 kg - weight in carton box for delivery BATTERY Airborne variant DJI M300 RTK or M600/M600 Pro drone main battery is used to provide power to the GPR using standard power socket of the drone intended for payload Ground surveys Battery is integrated in protective box, operating time up to 12 hours 99 W/h Li-lon WHAT'S IN THE KIT Zond Aero 500 GPR system with 500 MHz center frequency antenna Prism 2 Data Acquisition/Processing software NANUK transport case (also used for ground surveys) 99 W/h Li-lon battery integrated into the case (used for ground surveys only) Wi-Fi router integrated into the case (used for ground surveys only) Mascot charger Tow rope for terrestrial surveys		IP52 in airborne variant
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Weight 2.1 kg - airborne configuration without mounting kit for the drone 7.1 kg - in protective transportation box 10.0 kg - weight in carton box for delivery BATTERY Airborne variant DJI M300 RTK or M600/M600 Pro drone main battery is used to provide power to the GPR using standard power socket of the drone intended for payload Battery is integrated in protective box, operating time up to 12 hours 99 W/h Li-lon WHAT'S IN THE KIT Zond Aero 500 GPR system with 500 MHz center frequency antenna Prism 2 Data Acquisition/Processing software NANUK transport case (also used for ground surveys) 99 W/h Li-lon battery integrated into the case (used for ground surveys only) Wi-Fi router integrated into the case (used for ground surveys only) Mascot charger Tow rope for terrestrial surveys		52 x 43 x 21 cm - protective transportation box (for terrestrial surveys)
7.1 kg – in protective transportation box 10.0 kg – weight in carton box for delivery BATTERY Airborne variant DJI M300 RTK or M600/M600 Pro drone main battery is used to provide power to the GPR using standard power socket of the drone intended for payload Ground surveys Battery is integrated in protective box, operating time up to 12 hours 99 W/h Li-lon WHAT'S IN THE KIT Zond Aero 500 GPR system with 500 MHz center frequency antenna Prism 2 Data Acquisition/Processing software NANUK transport case (also used for ground surveys) 99 W/h Li-lon battery integrated into the case (used for ground surveys only) Wi-Fi router integrated into the case (used for ground surveys only) Mascot charger Tow rope for terrestrial surveys		71 x 45 x 28 cm – carton box for delivery
BATTERY Airborne variant DJI M300 RTK or M600/M600 Pro drone main battery is used to provide power to the GPR using standard power socket of the drone intended for payload Ground surveys Battery is integrated in protective box, operating time up to 12 hours 99 W/h Li-lon WHAT'S IN THE KIT Zond Aero 500 GPR system with 500 MHz center frequency antenna Prism 2 Data Acquisition/Processing software NANUK transport case (also used for ground surveys) 99 W/h Li-lon battery integrated into the case (used for ground surveys only) Wi-Fi router integrated into the case (used for ground surveys only) Mascot charger Tow rope for terrestrial surveys	Weight	2.1 kg - airborne configuration without mounting kit for the drone
Airborne variant DJI M300 RTK or M600/M600 Pro drone main battery is used to provide power to the GPR using standard power socket of the drone intended for payload Battery is integrated in protective box, operating time up to 12 hours 99 W/h Li-Ion WHAT'S IN THE KIT Zond Aero 500 GPR system with 500 MHz center frequency antenna Prism 2 Data Acquisition/Processing software NANUK transport case (also used for ground surveys) 99 W/h Li-Ion battery integrated into the case (used for ground surveys only) Wi-Fi router integrated into the case (used for ground surveys only) Mascot charger Tow rope for terrestrial surveys		7.1 kg – in protective transportation box
Airborne variant DJI M300 RTK or M600/M600 Pro drone main battery is used to provide power to the GPR using standard power socket of the drone intended for payload Battery is integrated in protective box, operating time up to 12 hours 99 W/h Li-lon WHAT'S IN THE KIT Zond Aero 500 GPR system with 500 MHz center frequency antenna Prism 2 Data Acquisition/Processing software NANUK transport case (also used for ground surveys) 99 W/h Li-lon battery integrated into the case (used for ground surveys only) Wi-Fi router integrated into the case (used for ground surveys only) Mascot charger Tow rope for terrestrial surveys		10.0 kg – weight in carton box for delivery
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Battery is integrated in protective box, operating time up to 12 hours 99 W/h Li-Ion WHAT'S IN THE KIT Zond Aero 500 GPR system with 500 MHz center frequency antenna Prism 2 Data Acquisition/Processing software NANUK transport case (also used for ground surveys) 99 W/h Li-Ion battery integrated into the case (used for ground surveys only) Wi-Fi router integrated into the case (used for ground surveys only) Mascot charger Tow rope for terrestrial surveys		, , , , ,
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Zond Aero 500 GPR system with 500 MHz center frequency antenna Prism 2 Data Acquisition/Processing software NANUK transport case (also used for ground surveys) 99 W/h Li-lon battery integrated into the case (used for ground surveys only) Wi-Fi router integrated into the case (used for ground surveys only) Mascot charger Tow rope for terrestrial surveys	,	
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Mascot charger Tow rope for terrestrial surveys		
Tow rope for terrestrial surveys		
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Mounting kit to fix GPR system on the DJI M300 RTK/M600/M600 Pro drone		
		Mounting kit to fix GPR system on the DJI M300 RTK/M600/M600 Pro drone



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Zond Aero 500 without protective box:







Zond Aero 500 in protective box:





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