



READER SPECIFICATIONS AND TAG READ RANGES >> Biomark Readers

	HPR plus	HPR Lite	GPR PLUS	BP Plus Portable w/HPR Plus Reader
Read Distance** <i>Biomark MiniHPT8, 8 mm, 134.2 kHz FDX-B</i>	16 cm – 21 cm (6.25 – 8.25")	12.5 cm – 16 cm (5 – 6.5")	10.5 - 11 cm (4.0 - 4.25")	21 cm – 30.5 cm (8 – 12")
<i>Biomark HPT9, 9 mm 134.2 kHz FDX-B</i>	20 cm – 26 cm (7.75 – 10.25")	16 cm – 19.5 cm (6.5 – 7.75")	12.5 cm – 14 cm (5.0 – 5.5")	25.5 cm – 35.5 cm (10 – 14")
<i>Biomark MiniHPT10, 10 mm 134.2 kHz FDX-B</i>	18 cm – 25 cm (7.25 – 9.75")	13.5 cm – 18 cm (5.5 – 7")	11.5 cm – 13 cm (4.5 – 5.25")	23 cm – 35.5 cm (9 – 14")
<i>Biomark APT12, 12.5 mm 134.2 kHz FDX-B</i>	24 cm – 32 cm (9.5 – 12.5")	19 cm – 24.5 cm (7.5 – 10")	12.5 cm – 15.5 cm (5.0 – 6.25")	35.5 cm – 45.5 cm (14 – 18")
<i>Biomark HPT23, 23 mm, 134.2 kHz FDX-B</i>	32 cm – 41 cm (12.25 – 16.25")	20 cm – 26 cm (7.5 – 10")	16.5 cm – 12.5 cm (6.5 – 5.0")	41 cm – 54 cm (16.25 – 21.25")
<i>BioTherm13, 13 mm, 134.2 kHz FDX-B</i>	22 cm – 30 cm (8.5 – 11.75")	12 cm – 16 cm (4.5 – 6.5")	9.0 cm – 11.5 cm (3.5 – 4.5")	26 cm – 34 cm (10.25 – 13.5")
<i>Biomark HDX12, 12 mm HDX</i>	22 cm – 31 cm (8.75 – 12.25")	12 cm – 16.5 cm (4.5 – 6.5")	12 cm – 14.5 cm (4.75 – 5.75")	29 cm – 39 cm (11.25 – 15.25")
<i>Biomark HDX23, 23mm HDX</i>	34 – 44 cm (13.5 – 17.5")	18 cm – 24 cm (7 – 9.5")	15.5 – 19.5 cm (6.5 – 7.75")	41 – 56 cm (16.25 – 22")

** Read range is affected by tag orientation and environmental noise. When a range is present the smaller number represents approximate read distance when tag is parallel to the antenna face (worst orientation) while the larger number represents approximate read distance when tag is perpendicular to the antenna face (best orientation). Environmental noise can be caused by power lines, dirty AC power, over head lights, pumps, etc.

	HPR plus	HPR Lite	GPR PLUS
Tags Detected	FDX-B, HDX, FDX-B Fastag, FDX-B BioTherm13	FDX-B, HDX, FDX-B Fastag, FDX-B BioTherm13, FDX-A, Avid Encrypted, Trovan, Unique (Manchester Encoded)	FDX-B, HDX, FDX-B Fastag, FDX-B BioTherm13, FDX-A, Avid Encrypted, Trovan, Unique (Manchester Encoded)
Dimensions	23 x 15 x 7.5 cm	31 x 12.4 x 4 cm	20.5 x 8.2 x 3.5 cm
Weight	2 kg w/ antenna (4.4 lbs)	450 g (0.99 lbs)	330 gm (0.73 lbs)
Antenna Design	Attach with cable	Internal	Internal
Antenna Power Adjustable	Yes	Yes	No
External Power Options	12V DC, AC	5V DC, AC	N/A
Internal Battery Type	LiFePO4 (Rechargeable)	Li-ion (Rechargeable)	(6) AAA NiMH (Rechargeable) or Alkaline batteries
Operating Temperature Range	-20°C – 70°C	-20°C – 70°C	0°C – 50°C
Storage Temperature Range	-20°C – 70°C	-20°C – 70°C	-20°C – 65°C
Display Type	24 bit color, 5.5 cm x 9.5 cm	FSTN B&W, 3.8 cm x 3.8 cm LCD	LCD
Tag Code Storage Memory	1.6 million IDs	50,000 IDs	3,000 IDs
Date & Time Stamp Option	Yes	Yes	Yes
Waterproof	Yes (IP67)	Yes (IP67)	No
Shockproof	Yes	Yes (Per EN 60068-2)	No
Communication Options	USB, Bluetooth, USB thumb drive	USB, Bluetooth, USB Flash Drive	USB, Bluetooth
GPS Capable	Yes	No	No
Automatic Power Shut-off	Programmable	Programmable	Programmable
Continuous Operation Capability	Programmable	No	No
Display Backlight	Yes	Yes	Yes
Regulatory Compliance	ISO 11784 & 11785, FCC, IC	ISO 11784 & 11785, FCC, IC	ISO 11784 & 11785, FCC, IC
iPhone, iPad Compatible (Apple Compatible)	Yes	Yes	Yes