

Category	How Results are Derived		Normative Data	Secure Data Access
Time Series Data*	Force sensor data derived into three degrees of freedom measured at 1000 times per second (Hz): 1. Vertical Force (Z) 2. Center of Pressure X 3. Center of Pressure Y		N/A	Immediately available for export.
Calculated and Derived Biomarkers	Biomechanics Driven	A large variety of metrics (e.g. force, velocity, acceleration, displacement) are derived from time-series data based on accepted classical mechanics and Newtonian physics principles. This is commonly referred to as "raw data" in traditional force-plate based kinetic assessment.	✓	Immediately available in Scan App and Cloud Interface. Available for export. Available through API.
	Signal Processing Driven	A large variety of metrics (e.g. sample entropy, energy, vector coding) are derived from time-series data utilizing accepted discrete, continuous, and non-linear signal processing techniques based on electrical engineering principles.	✓	Immediately available in Scan App and Cloud Interface. Available for export. Available through API.
	AI/ML Driven	Unsupervised Learning derived: Commonly used accepted techniques and algorithms (e.g. neural networks, k-means clustering, heierarchical clustering, dimensionality reduction) are applied to unlabeled datasets to identify complex patterns and relationships, reduce data redundancy, and prevent model overfitting.	✓	Immediately available in Scan App and Cloud Interface. Available for export. Available through API.
		Supervised Learning derived: Commonly used and accepted techniques and algorithms (e.g. neural networks, linear and non-linear regressions, random forest modeling) are trained utilizing labeled datasets to accurately classify data or predict outcomes.	✓	Immediately available in Scan App and Cloud Interface. Available for export. Available through API.
Primary Biomarkers	Metrics that are Primary Biomarkers , are curated and highlighted as key top-level markers of interest derived by applying modern data science optimizations to established clinical practices. These metrics are derived utilizing the methodologies discussed above. They are specifically and iteratively optimized for accuracy and usefulness in real-world settings leveraging SME, Clinical, and Customer feedback while maintaining data science best practices.		✓	Primary Biomarkers are highlighted and immediately available in Scan App and Cloud Interface. Available for export. Available through API.