Feature	Advantage	Benefit
Fully automated closed-loop capability	No carb counting or pre-meal bolus required No missed meals Compensates for patient's incorrect insulin-to-carb ratio and correction factor	• Improved control compared to open loop control • Reduced cognitive burden to the patient
Hybrid closed loop capability	Fully automated closed-loop control between user manual boluses	• Improved control compared to open loop control
Reactive and predictive Low Glucose Suspend (LGS)	Automatic suspension and resumption of insulin delivery depending on current and predicted glucose conditions	• No need to announce exercise • Decreased incidence of hypoglycemia • Decreased glucose variability
Aggressiveness factor (AF) tuning of insulin	Intuitive tuning of the system by the patient enabling adjustment for anticipated situations	• Increased time in euglycemia • Reduced incidence of hypoglycemia
Compact software application	Low battery power consumption when running on a microcontroller chip in the pump or on a smartphone	• Extends system usage time on batteries
Advanced system fault tolerance capabilities	Automated transitions between open loop, hybrid closed loop and fully automated closed loop operating modes.	• Reduced cognitive burden to the patient • Reduced risk of hypo and hyperglycemia
Software runs in the background on a sensor augmented pump	Simple and intuitive user interface Manual pump user interface consistent with past experience	• Easy of use by the patient • Broader acceptance in the diabetic community