

Cardiac Event Recorder With Atrial Fibrillation Auto-Trigger

The Arrhythmia Monitoring System *King of Hearts Express® AF Recorder*

The King of Hearts Express® AF recorder is a sophisticated, yet easy-to-use cardiac event recorder that was designed to assist in the diagnosis and treatment of Atrial Fibrillation (AF).

It has 10 minutes of ECG memory and programmable features that allow it to be adapted to every patient's monitoring needs. Once an ECG is recorded on the King of Hearts Express AF recorder, it can be transmitted to your office or clinic via telephone from anywhere in the world.

Catch Asymptomatic Events

Along with being able to record patient-activated events, the recorder also has the capability to catch asymptomatic events with its unique, patent pending Atrial Fibrillation (AF) auto trigger, and separate Tachycardia and Bradycardia auto-triggers*. Each auto trigger is programmable to meet specific individual patient's needs.

Manage AF Patients

With its ability to track and automatically capture certain episodes of AF, the King of Hearts Express AF recorder is the ideal tool for managing patients with this condition. The unique benefits provided by the device may include early diagnosis and intervention, improved patient care and follow-up, and an increased ability to document breakthrough episodes.

Increase Diagnostic Yield

Because cardiac event recorders allow physicians to extend the monitoring period to 30-days, they have been shown to increase the diagnostic yield by more than 90% over traditional Holter monitoring for certain symptoms! Even higher yields can be expected with the addition of Instromedix tracking algorithm and auto trigger technology.

- Automatic activation during Atrial Fibrillation (AF), Bradycardia, and Tachycardia
- Simple one-button recording for symptomatic events
- 10-minutes of programmable pre and post event memory
- Two-electrode patient hook-up for increased compliance



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¹Makowska, E. et al. Evaluation of Patients with Palpitations. Event Recorder Versus 48-Hour Holter Monitoring. A Randomized, Crossover Trial. Europace Journal. Vol. 1, July 2000 D161. Presented at the 2000 CardioStim Conference.

* Although the algorithms are very sophisticated, there is no guarantee that they will detect arrhythmia(s), nor is there any guarantee that the transition to the arrhythmia(s) will be successfully recorded in all auto-triggered events.

The Arrhythmia Monitoring System

King of Hearts Express® AF Recorder



Physical Characteristics	Dimensions	3.375 Length x 2.13 Width x 0.7 Thickness (in)
	(Pager Size and Lightweight)	8.6 Length x 5.4 Width x 1.8 Thickness (cm)
	Weight with Batteries	3.5 oz 100 gm

Electrical Specifications	Bandwidth	0.05 to 40 Hz
	Sampling Rate	218 Hz
	Resolution Calculated	15.6 μ V
	Heart Rate Range	28 to 255 BPM
	Leads	One Channel producing one lead

Battery	Type	1.5V "AAA" Alkaline (2)
	Life	Continuous use, 7 days typical

Transmission Characteristics (Typical)	Center Frequency	1900 Hz
	Deviation	100 Hz/mV
	Transmission Protocols	1X or accelerated (three times faster than real time)

Memory Characteristics	Memory	600 seconds (10 minutes)
	Memory Hold Time	128 days (internal back-up battery)

Programmable Features	Pre-activation Memory	5 – 600 seconds (single lead)
	Post-activation Memory	0 – 595 seconds (single lead)
	Number of Events	1 – 60
	Brady / Tachy Auto Trigger	On/Off
	Bradycardia Trigger	30 – 65 BPM (steps of 5 BPM)
	Tachycardia Trigger	120 – 250 BPM (steps of 10 BPM)
	AF Trigger	On/Off
	3X Transmission	On/Off
	Heart Rate Display	On/Off
	Speaker	On/Off
	Triggered Event Maximum	0 to 1 less than max. programmed events
	Auto Trigger Alert	On/Off

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