

Atrial Cardioversion System

SHOCK AT



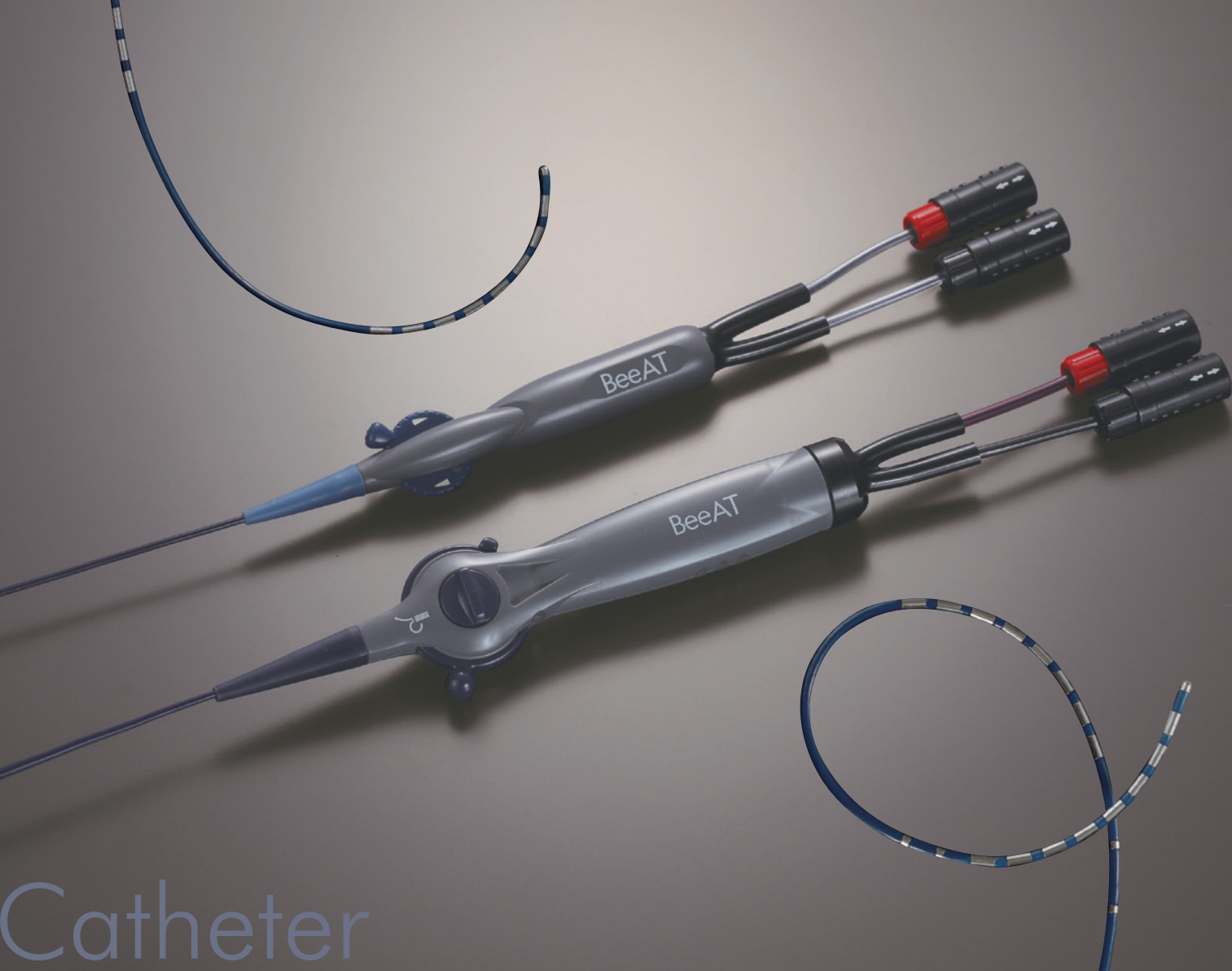
A dramatic night scene of a city skyline reflected in water under a dark blue sky with multiple bright lightning bolts striking across the horizon. The city buildings are silhouetted against the dark sky, and the water in the foreground is calm, reflecting the lights from the city and the sky. The overall mood is serene yet powerful, capturing the calm after a storm.

CALM AFTER THE STORM



SHOCK AT is a generator specifically designed to deliver intracardiac cardioversion energy through a dedicated catheter, BeeAT, to terminate atrial arrhythmias including atrial fibrillation, atrial flutter, and atrial tachycardia during ablation procedures. Atrial fibrillation procedures are most suited for SHOCK AT due to the frequent necessity for cardioversion.

In comparison to external defibrillators, SHOCK AT can terminate atrial fibrillation with relatively lower energy and less invasiveness. It provides a novel strategy for catheter ablation.

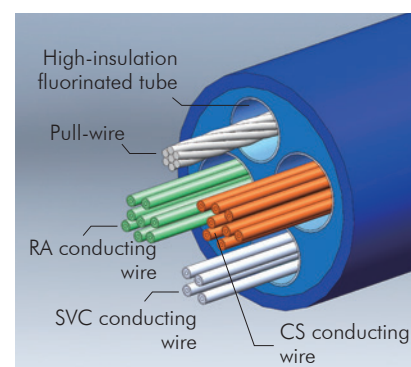


BeeAT

Catheter for Atrial Cardioversion System SHOCK AT

Multi-Lumen Shaft

The BeeAT catheter has a multi lumen shaft. CS, RA, and SVC or CS ostium electrodes' conduction wires and the pull wire are threaded into individual lumens. The lumens are composed by highly-insulated fluorinate tubes, providing great resistance to stress from deflection or shocks during ablation procedures.



Multi-Lumen Shaft

Wide-Band Electrodes

Cardioversion energy is delivered between the RA and CS wide-band electrodes. Depending on the size of the heart, physicians may choose a different electrode spacing between the RA and CS electrodes: 50mm (S), 70mm (M), and 90mm (L) for optimal cardioversion.

Multi-Site Mapping

CS, RA, and SVC EGMs can be recorded with one catheter.

Delivery Approaches

SVC and IVC approach catheters are available.



AP



Generator

SHOCK AT α

Generator for Atrial Cardioversion System SHOCK AT

Energy Output

The programmable range of the energy output is 1 – 30J and it can be adjusted in 1J increments.

Power Supply

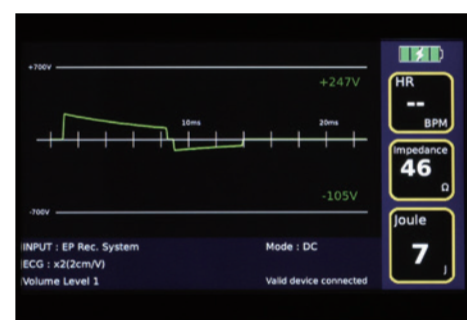
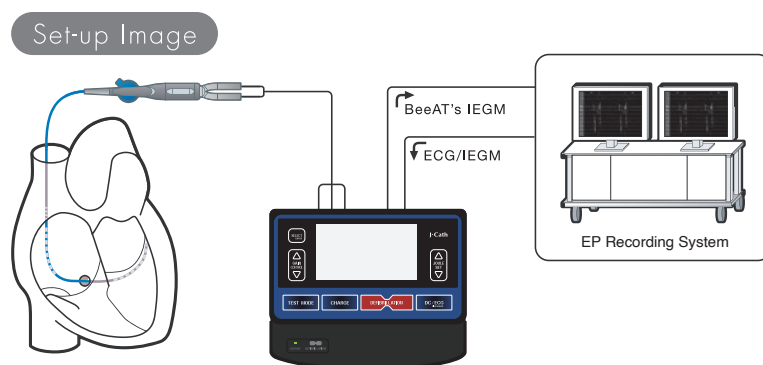
In addition to the AC power supply, DC power is available which is insusceptible to electrical noise interference.

Filtered ECG

Intracardiac electrogram inputs are adjusted by a bandpass filter and auto-gain control to enable an R-wave triggered cardioversion.

IEGM Auto-Switching

Ensuing the delivery of the cardioversion, SHOCK AT α automatically discontinues the transmission of electrical information to the EP recording system. The electrical transmission is automatically reestablished 50msec post-cardioversion. Therefore, the IEGM can be checked immediately after the application.



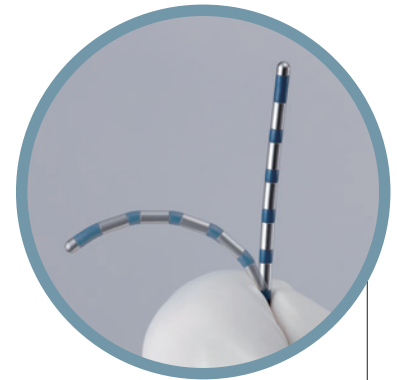
Generator screen right after cardioversion is delivered

IVC Approach for Cardioversion

A new choice in the BeeAT lineup.

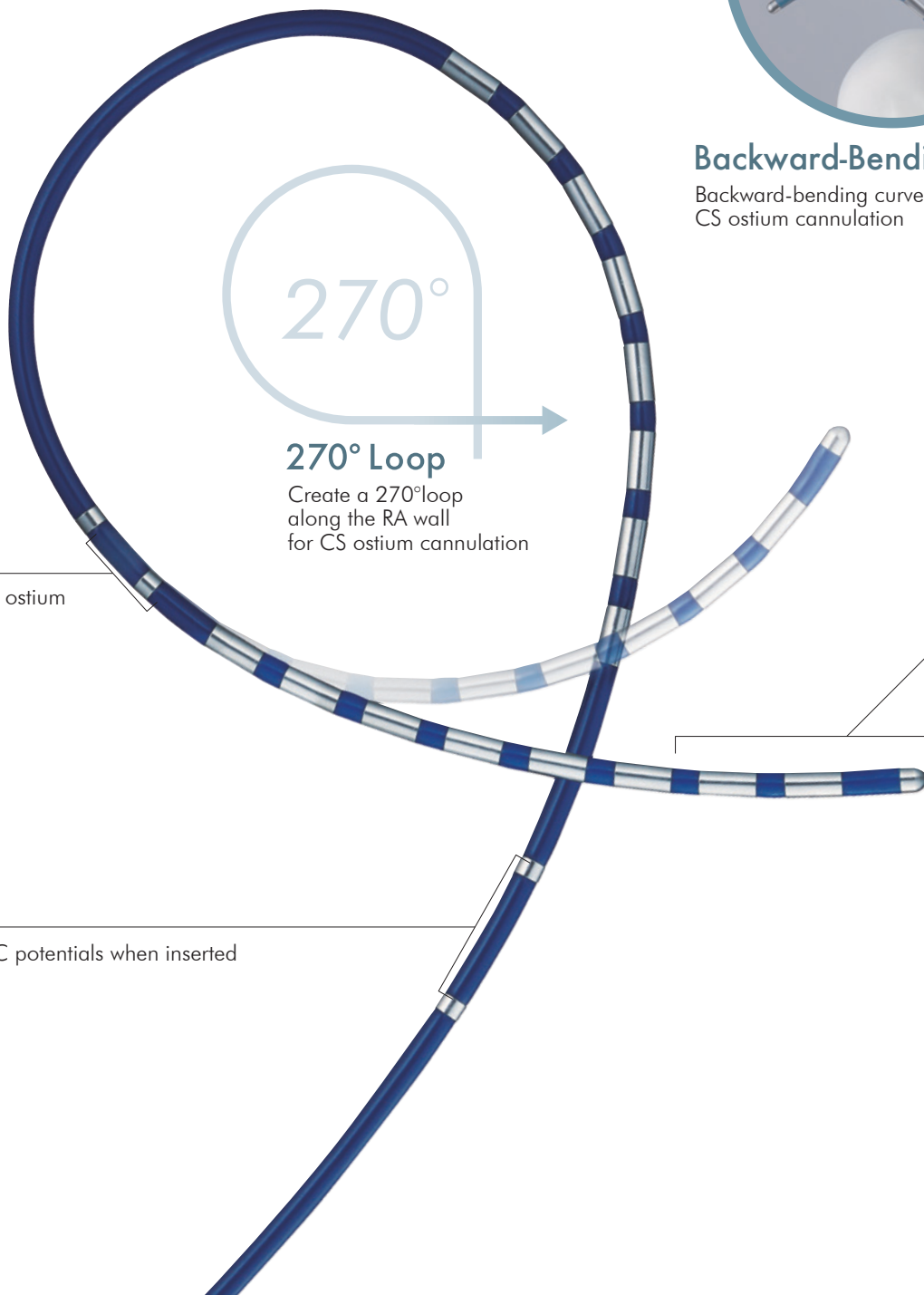
Groin puncture & IVC approach with the identical proven curve plus distal tip deflection.

Catheter



Backward-Bending

Backward-bending curve for easier CS ostium cannulation



270°

270° Loop

Create a 270° loop along the RA wall for CS ostium cannulation

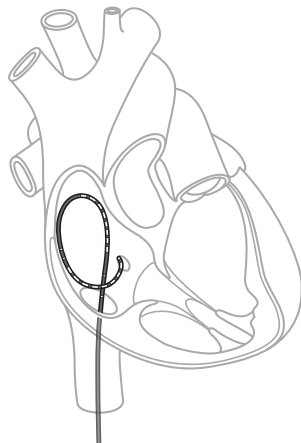
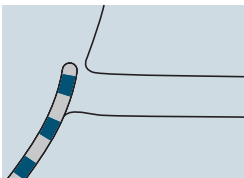
Pacing at CS ostium

Mapping SVC potentials when inserted

Approach to CS

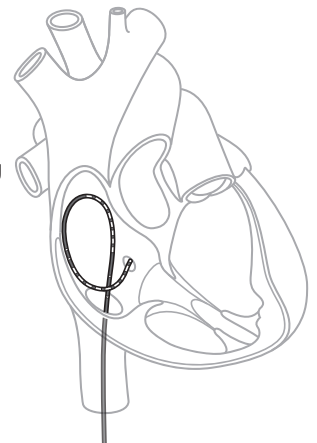
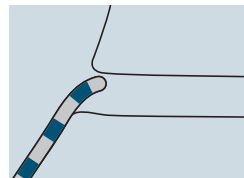
1

Create a loop in the RA and approach the septum



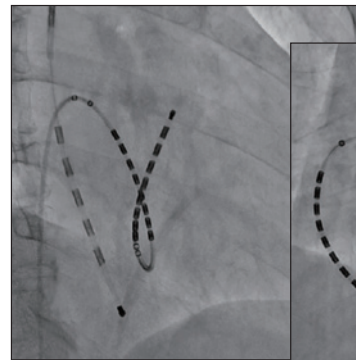
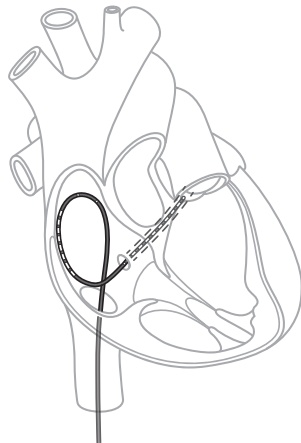
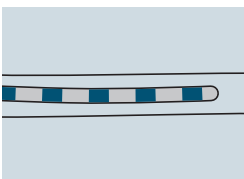
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Cannulate the CS ostium by using a backward-bending curve at distal tip

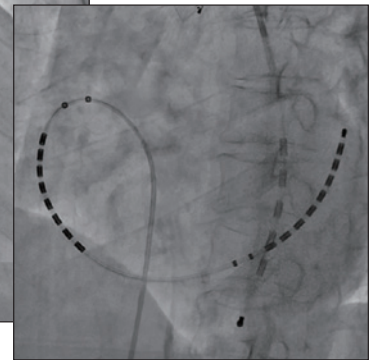


3

Maneuver distal tip and insert into the CS

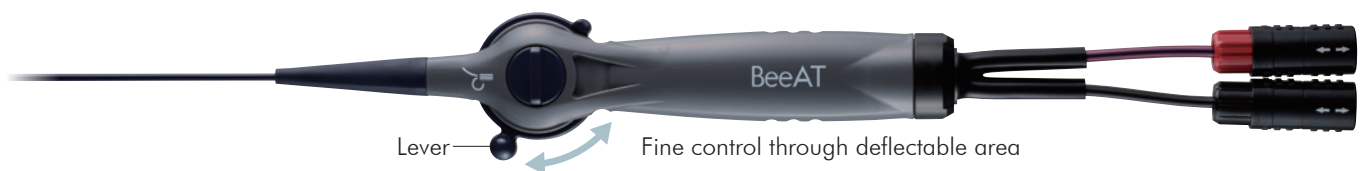


RAO



LAO

Asymmetric Handle Design



SHOCK AT Specification

BeeAT Catheter for
Atrial Cardioversion System SHOCK AT

6F・Duodecapolar Steerable Type

Model No.	Electrode Spacing (mm)	Type	Usable Length (cm)
S20884-80S	2-2...50-2-2...10-5-5-5	SVC-RA-CS	80
S20884-80M	2-2...70-2-2...10-5-5-5	SVC-RA-CS	80
S20884-80L	2-2...90-2-2...10-5-5-5	SVC-RA-CS	80
S20884ST-M	2-2...70-2-2...10-5-5-5	SVC-RA-CS	80
S20884ST-L	2-2...90-2-2...10-5-5-5	SVC-RA-CS	80
S208282-SAOC	2-2...20-20-28-2-2...15-10	SVC-RA-CSos-CS	80
S208282-SAOCST	2-2...20-20-28-2-2...15-10	SVC-RA-CSos-CS	80
S208282-SAOC2	2-2...10-10-48-2-2...15-10	SVC-RA-CSos-CS	80
S20848-AOC	2-2...5-5...45-2-2...	RA-CSos-CS	80
S20848-AOCL	2-2...20-5...50-2-2...	RA-CSos-CS	80
S20884-100M	2-2...70-2-2...10-5-5-5	SVC-RA-CS	102
S20848-100AOC	2-2...5-5...45-2-2...	RA-CSos-CS	102
S208282B-SAOCM	2-2...5-5-58-2-2...15-10	SVC-RA-CSos-CS	102
S208282B-SAOC3	2-2...22.5-22.5-22.5-2-2...25-25	SVC-RA-CSos-CS	102
S208282PS-SAOC3	2-2...22.5-22.5-22.5-2-2...25-25	SVC-RA-CSos-CS	102

6F・Duodecapolar Fix Type (with inner lumen)

Model No.	Electrode Spacing (mm)	Type	Usable Length (cm)
SF20884L-80M	2-2...70-2-2...10-5-5-5	SVC-RA-CS	80

Catheter Material

Electrode	Shaft
Platinum-Iridium	PEBA

BeeAT ELECTRODE CABLE

Model No.	Usable Length (cm)
4020-200	200
4020-260	260

SHOCK AT α Generator for
Atrial Cardioversion System SHOCK AT

Generator

Model No.	Power	Dimensions (mm)	Weight (kg)
ACG30-2	AC 100~240V	W300×D255×H117	4.5

Accessories

Product Name	Model No.
Power Cable	ACG-507
IEGM Cable	SEC-500
INPUT Cable	SIC-500

Additional Accessories

Product Name	Model No.	Usable Length (cm)
Power Cable	ACG-507	-
IEGM Cable	SEC-500	500
	SEC-200	200
INPUT Cable	SIC-500	500
	SIC-200	200
	SIC-500B	500
	SIC-800	800
	SIC-800B	800

Some models may not be approved in your country.
Please contact our local representatives for further information.

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