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## Advantages of WiScope® Single-Use Digital Flexible Ureteroscope over Competitors in the market

OTU Medical Inc. is a Silicon Valley based medical technology company founded by a group of serial entrepreneurs and professionals. We focus on the innovations and development of single-use endoscopic instruments in urology. OTU team has developed and owned a great amount of proprietary intellectual properties relating to design and manufacturing technologies of endoscopic system and parts. We currently have over ten issued patents in the United States and other key countries, and a number of additional patent applications in process. The team also accumulated specific knowhow and trade secret in these areas.

OTU team has successfully developed industry's smallest One-Time-Use WiScope® Ureteroscope with excellent handling, deflection radius, smallest shaft and the best resolution. AUA (American Urological Association) 2018 at San Francisco was the first time we have unveiled our WiScope® to the world.

**OTU Medical:** WiScope® Digital Endoscope System (WiScope® Single-Use Digital Flexible Ureteroscope)



### Competitors in the market:

**Boston Scientific's:** LithoVue System (LithoVue™ Single-Use Digital Flexible Ureteroscope)





① Specification Comparisons

Company	OTU	Boston Scientific	PUSEN	Note
Field Of View (diagonal)	100° (95°)	N.A. (85°)	120° (75°)	Note 1
Resolution	400×400 pixels	250×250 pixels	250×250 pixels	Note 2
Insertion Tube Outer Diameter	8.6Fr	9.5Fr	9.0Fr	
Minimum bending radius	8mm	8.5mm	10.5mm	Note 3
Deflection Angle (empty inside the working channel)	275°	270°	250°	Note 4
Deflection Angle (with 200um laser fiber inside the working channel)	274°	270°	222°	Note 4

**Note 1:**

- 1) Boston Scientific's FOV is not disclosed in public.
- 2) The FOV parameter inside the bracket is actually bench measured according to the reference [1].

**Note 2:**

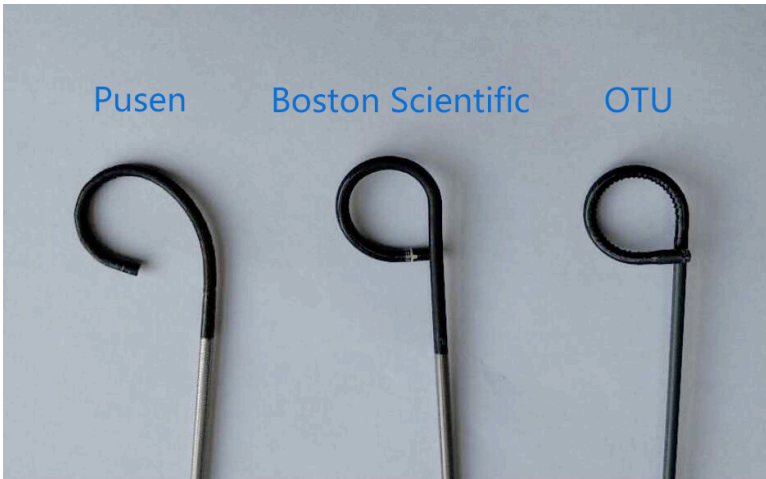
- 1) Boston Scientific's and Pusen's resolution are not disclosed in public, and those values are based on references, analysis, and bench measurements.
- 2) Please refer to Image Quality Comparison Table in this document.

**Note 3:**

- 1) In term of Minimum bending radius, OTU is better than Pusen and Boston Scientific.
- 2) Please refer to the following picture for bending characteristics.

**Note 4:**

- 1) Measurement setup details in the reference [1].



② Image Quality Comparisons

	Image 1	Image 2
Boston Scientific		
Pusen		
OTU		

The image quality is evaluated through Image brightness, light distribution, color rendition and resolution.

In terms of image brightness,  
 In terms of light distribution,  
 In terms of color rendition,  
 In terms of resolution,

OTU better than Boston Scientific and Pusen  
 OTU better than Boston Scientific and Pusen  
 OTU better than Boston Scientific and Pusen  
 OTU better than Boston Scientific and Pusen



## **Conclusions**

According to the comparisons above, it is concluded that OTU's WiScope® single-use digital flexible ureteroscope has better image resolution/quality, better controllability and smaller shaft outer diameter over the other competitors' products.

## **REFERENCE**

[1] G. Marchini, C. A. Batagello, M. Monga, et al., In vitro evaluation of single-use digital flexible ureteroscopes: a practical comparison for a patient-centered approach, *Journal of Endourology*, DOI: 10.1089/end.2017.0785.