

# Mizuho Vascular Doppler Systems

*Intraoperative essentials for neurosurgical and vascular procedures*



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## 8 MHz System

2cm depth penetration depending on the density of surrounding tissue and bone



### Indications

- **Locates carotid artery in transsphenoidal procedures**
- Allows technical verification of anastomoses and endarterectomies
- Supports assessment of flap viability
- Evaluates AV fistulas and EC-IC Bypass
- Verifies graft and shunt patency

### Transceivers

- Available with A/C to D/C connection and battery only

### Probes

- Packaged 4 in a box
- Sterile, Disposable
- Straight and Bayonet design
- 2mm or 3mm tip



**Clinical Benefit** Minimize the risk of internal carotid artery injury during transsphenoidal surgery

## 20 MHz System

1cm depth penetration depending on the density of surrounding tissue and bone



### Indications

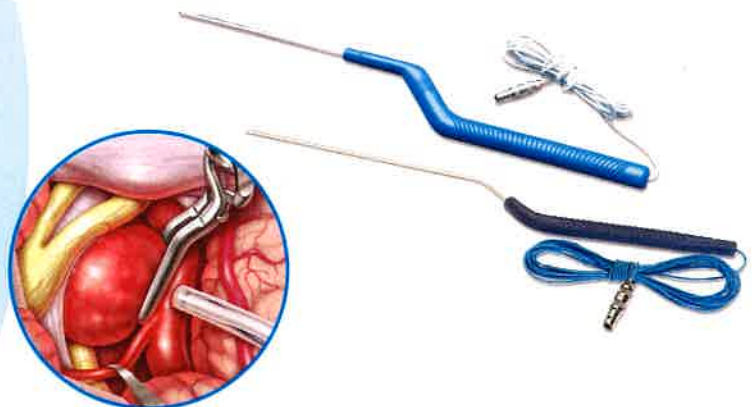
- **Determines completeness of aneurysm clipping**
- **Determines patency of parent vessel post aneurysm clipping**
- Locates feeder artery in AVM
- Locates vessels noted on angiogram
- Validates patency of microvascular anastomoses
- Confirms patency of major venous sinuses
- **Infertility Surgery (Short Probes)**
- Varicocele Ligation
- Ongoing research

### Transceivers

- Available with A/C to D/C connection and battery only

### Probes

- Packaged 4 in a box
- Sterile, Disposable
- Bayonet design only
- 2mm or 0.8mm tip







**Clinical Benefit** Quickly assess aneurysm clip placement and confirm aneurysm occlusion

Mizuho offers a portable, easy-to-use, and accurate modality for evaluating blood flow intraoperatively. Two systems operating at two different frequencies, 8MHz and 20MHz, provide audio blood flow detection at different depths of penetration. Each system comes with a set of transceivers and sterile disposable probes designed for specific surgical procedures.

## Ordering Information



### 8 MHz System







	Product Code	Product Name	Unit	Size	Weight	Frequency	Power	Operating time
	108910-A/C	8 MHz Doppler Transceiver with A/C	1	D 165mm × W 254mm × H 101mm	1.2kg	8MHz	8 AA Alkaline Batteries or A/C to D/C	4 hours, min.* (Standby mode,) full volume
	108910	8 MHz Doppler Transceiver		D 105mm × W 95mm × H 135mm	0.6kg		8 AA Alkaline Batteries	10 hours, nom. (Standby mode,) full volume

	Product Code	Product Name	Pc	Tip length	Working length	Overall length	Shape of handle	Spec
	108260	8 MHz Doppler Probe	4pcs /box	3mm	55mm	160mm	Straight	Sterile disposable
	138210	8 MHz Kelly Endonasal Probe		2mm**	131mm	265mm	Bayoneted	

\*During battery mode \*\*Last 10mm of tip bent at 10 degrees

### 20 MHz System

	Product Code	Product Name	Unit	Size	Weight	Frequency	Power	Operating time
	07-150-20	20 MHz Doppler Transceiver with A/C	1	D 165mm × W 254mm × H 101mm	1.2kg	20MHz	8 AA Alkaline Batteries or A/C to D/C	4 hours, min.* (Standby mode,) full volume
	07-150-02	20 MHz Doppler Transceiver		D 105mm × W 95mm × H 135mm	0.6kg		8 AA Alkaline Batteries	10 hours, nom. (Standby mode,) full volume

	Product Code	Product Name	Pc	Tip length	Working length	Overall length	Shape of handle	Spec
	07-150-07	20 MHz Doppler Probe	4pcs /box	2mm	105mm	275mm	Bayoneted	Sterile disposable
	07-150-10	20 MHz Doppler Probe, Slim Handle			115mm	233mm		
	07-150-12	20 MHz Doppler Micro Probe			113mm	231mm		
	108650	20 MHz Doppler Micro Probe, Slim Handle		0.8mm	74mm	200mm		
	07-150-21	20MHz Doppler Short Probe Straight		1.5mm	25mm	128mm(ref)	Straight	
	07-150-22	20MHz Doppler Short Probe Curved		1.5mm	25mm	122mm(ref)	Curved	

\*During battery mode

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Caution

- Be sure not to use the product until you have carefully read the instruction manual and attached document and correctly understood their contents.
- Be sure to carry out without fail the periodic inspections and the pre- and post-operative inspections.
- For details about after-the-sale service be sure to inquire at our Sales Branches or the dealer from whom you have purchased this product.

\* Under our policy, ongoing improvements and published specifications may be subject to change without prior notice.

\* All published CG photos and illustrations have been from images.