



# Endovaginal Endfire Transducer Type 8819 for BK Medical Ultrasound Scanners

## Product Data

### USES

- Endovaginal scanning
- Transrectal scanning
- Spectral and CFM Doppler examinations

### BENEFITS

- Superior resolution
- Multifrequency imaging
- Ergonomic design for easier scanning and greater operator comfort
- Sleek design of the transducer minimizes patient discomfort
- Needle guide for puncture and biopsy (Reusable and single-use)



*8819 endovaginal endfire transducer*

### General Description

Type 8819 is an endovaginal endfire transducer designed for use with BK Medical's Pro Focus 2202 and Flex Focus 1202 scanners.

### Applications

The 8819 is an endfire transducer specially designed and optimized for endovaginal scanning. It can be used for investigating gynecological disease as well

as for fetal studies in early pregnancy. The 8819 can also be used for transrectal scanning.

The 8819 is ergonomically designed for easy scanning and has an oval-shaped shaft that facilitates examinations in the gynecological position. The dynamic focus extension is 3 to 60mm. The transducer has a wide sector angle of 150°, allowing you to view a large image field without moving the probe.

### Interventional Procedures

The UA1282 stainless steel puncture attachment is designed for endovaginal interventional procedures. It has an internal bore diameter of 1.8 mm (suitable for 20 to 14 gauge needles). UA1282 clicks easily and securely into place on the transducer.

The ultrasound scanner superimposes a puncture line on the scan image to help you guide the needle to its target.

### Multifrequency Imaging

The 8819 can transmit at 6, 7.5 and 9 MHz. This makes it possible to visualize very large structures as well as very fine details.

### Cleaning and Disinfection

The 8819 transducer can be disinfected by immersion in the solutions listed under Specifications. The UA1282 puncture attachment can be disinfected by immersion and can be autoclaved.

Sterile transducer covers are available.

### Safety

The 8819 is designed and tested in accordance with EN60601-1 (IEC60601-1), "Medical Electrical Equipment, General Requirements for Safety." When used with BK Medical's ultrasound scanners, Type BF requirements are met.

# Specifications 8819

<p><b>SAFETY</b> When used with BK Medical's ultrasound scanners, this transducer complies with Safety Standard EN60601-1 (IEC60601-1) Type BF</p> <p><b>FREQUENCY RANGE</b> 5-9 MHz (depending on scanner)</p> <p><b>ENVIRONMENTAL</b> <b>Operating pressure</b> 700-1060hPa (normal atmospheric pressure) <b>Operating temperature</b> +10 to +40°C (50 to 104°F) <b>Storage temperature</b> -25 to + 60°C (-13 to 140°F)</p>	<p><b>Watertight immersion temperature</b> Max +40°C (+104°F) <b>Watertight immersion time</b> Max 15 hours per 24 hours <b>Resistance to chemicals during disinfection:</b> Immersion for less than 10 minutes in each hour in: ■ Chlorhexidine gluconate (5-20%)</p> <p>Immersion in the following solutions, following manufacturer's instructions (but not exceeding maximum watertight immersion time specified for this transducer): ■ Glutaraldehyde (2-3.4% in water) ■ Cidex OPA®</p>	<p>■ Wiping with ethanol (70% in water)</p> <p><b>POWER SUPPLY</b> Internally from scanner</p> <p><b>CABLE LENGTH</b> 2.4m (7.9ft)</p> <p><b>TRADEMARKS</b> ■ Cidex OPA is a registered trademark of Advanced Sterilization Products (ASP), a Johnson &amp; Johnson Company.</p>
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	Units	8819					
		2202*			1202		
Center frequency	MHz	6	7.5	9	6	7.5	9
Doppler frequency	MHz	5	6	7.5	5	6	7.5
Number of elements		128			128		
Radius of curvature	mm	10			10		
Transverse plane aperture	mm	5			5		
Transverse focal length (typical)	mm	35			35		
Image plane aperture	mm	11			11		
Image plane focal length	mm	variable					
Axial resolution (measured at 25.8 mm)**	mm	0.8	0.8	0.8	0.4	0.4	0.3
Image field		150°			150°		
Basic scanning modes		B, M, Doppler, CFM, Tissue Harmonic Imaging			B, M, Doppler, CFM, Tissue Harmonic Imaging		
Penetration depth**	mm	111	99	92	108	96	86
Focal range	mm	3-60			3-60		
Lateral resolution (Measured at 35 mm)**	mm	1.9	1.9	1.8	1.2	1.4	1.1
Frame rate (max)	Hz	>150			>150		
Contact surface (acoustic)	mm	26 x 5					
Contact surface (overall)	mm	22 x 18					
Total dimensions	mm	22 x 35 x 319					
Weight (approximate)	g	140					
Applications (typical)		Transvaginal Fetal			Transvaginal Transrectal Fetal		

\* 8819 is not available with Pro Focus 2202 Blue (B)

\*\* Measurements according to IEC/TS 61390 and JIS T 1501. Penetration depth is measured at 0.7dB/cm/MHz and recalculated corresponding to a realistic tissue attenuation of 0.5 dB/cm/MHz.

For definitions of terms, refer to Acoustic Output Measurement Standard for Diagnostic Ultrasound Equipment, AIUM/NEMA, 2004.

## Ordering Information 8819

### ACCESSORIES INCLUDED

KE4325: Carrying case with insert  
DS0537: Insert for carrying case

### ACCESSORIES AVAILABLE

UA1282: Puncture attachment (bore diameter 1.8mm; angle of insertion 0.9° to the long axis of the transducer). Includes 3 single-use cleaning brushes (QZ0040)  
QZ0040: Single-use cleaning brush, thin  
UA1404: Leakage testing kit  
610-958: CIVCO sterile endocavity needle guide. To purchase, please contact your CIVCO supplier

610-959: CIVCO sterile endocavity needle guide. Same as 610-958, including sterile covers. To purchase, please contact your CIVCO supplier

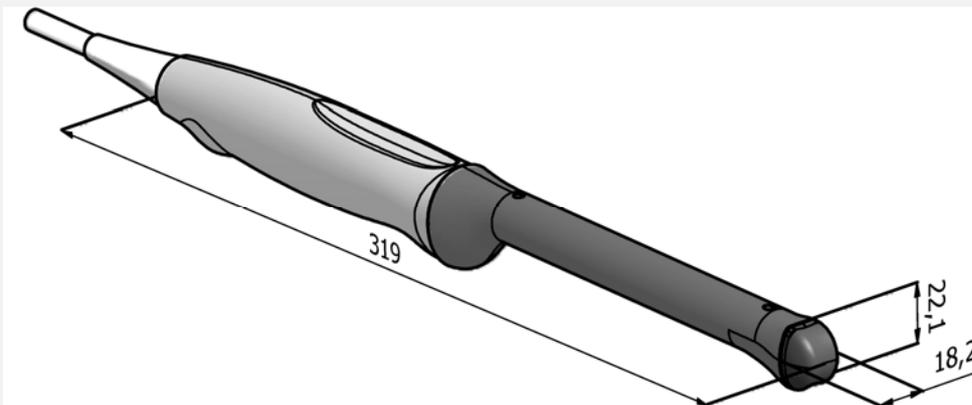
### TRANSDUCER COVERS

UA0004: Sterile cable cover (pack of 24)  
UA0005: Sterile latex (pack of 24)  
UA0008: CIV-Flex™ Latex-free, sterile (pack of 24)

CIV-Flex is a trademark of CIVCO Medical Instruments Co., Inc.

## 8819 Technical Drawings

All measurements are in mm



### Puncture attachment UA1282

- Weight: 42 g
- Dimensions: 170 x 25 x 22 mm
- Material: stainless steel AISI303 and AISI304

