

# Butterfly iQ3™ Specs and Features



## Manufacturer

Butterfly Network Inc.  
Butterfly iQ3™

## Technology

Ultrasound-on-Chip™. Capacitive Micromachined Ultrasonic Transducer (CMUT) adhered to Complementary Metal Oxide Semiconductor (CMOS).

## Form Factor

Handheld

## Privacy and Security Compliance

SOC 2 Type 2  
GDPR Ready

## Regulatory Clearance

CE Mark  
FDA

## Advanced Imaging Tools

Auto B-Lines Counter
Auto Bladder Volume Calculation
Needle Viz™
iQ Slice™
iQ Fan™
Cardiac Output
Velocity Time Integral (VTI)
Umbilical Artery Doppler
Subxiphoid Tilt
Midline marker tool
OB Calculations
5 Labeling Protocols
Generic Volume Calculation
Gastric Volume Calculation
Alpha/Beta Angles Calculation
Carotid Diameter Reduction Calculation

## Presets

Abdomen	Nerve
Abdomen Deep	OB 1/GYN
Aorta & Gallbladder	OB 2/3
Bladder	Ophthalmic
Cardiac	Pediatric Abdomen
Cardiac Coherence	Pediatric Cardiac
Cardiac Deep	Pediatric Lung
FAST	Small Organ
Lung	Vascular: Access
Lung Tissue	Vascular: Carotid
MSK Soft Tissue	Vascular: Deep Vein
Musculoskeletal	Vascular: Superficial
Needle: Out-Of-Plane	

## Probe Types and Frequencies

Frequency Range: 1–12 MHz

Linear	Yes
Convex	Yes
Phased	Yes

## Scan Modes

B-Mode (2-D)	Yes
Tissue harmonic imaging	Yes
M-Mode	Yes
Biplane Imaging™	Yes
Doppler	
Color Doppler Imaging (CDI)	Yes
Power Doppler Imaging (PDI)	Yes
Pulsed Wave Doppler Imaging (PWD)	Yes

## Image Display and Processing

Image magnification (zoom)	Yes
Monitor, cm (in)	Varies by mobile device
Minimum display depth	1 cm
Maximum display depth	30 cm
Preprocessing	Yes

## Measurements and annotations

Linear measurements	Max of 4
Ellipse measurement	Max of 1
Text labels	Create your own or choose from 80+ preset-specific labels

## Software Features

Operating Systems	iOS and Android
Onboard Video Tutorials	Yes
Midline Marker	Yes
Digital Calipers	Up to 4 linear calipers, 1 Elliptical calipers
Beam Steering	Up to 150 degrees
Exam presets	20+
On-Screen annotation	Yes
Trapezoidal imaging	Yes
Onboard customizable worksheets	Yes
EMR connection	Yes
PACS connection	Yes
Secure/Deidentified Image Collaboration	Yes

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## Quality System Compliance

IEC 60601-1 Ed. 3.2 en: 2020  
 IEC 60601-1-11 Ed. 2.1 b:2020  
 IEC 60601-1-12 Ed. 1.1 b:2020  
 IEC 60601-1-2:2014/AMD1:2020  
 IEC 60601-2- 37:2007/AMD1:2015  
 ISO 10993-1  
 ISO 10993-5  
 ISO 10993-10  
 ANSI/AAMI ES60601- 1:2005/(R)2012 & A1:2012 & A2:2021  
 IEC 60601-1- 6:2010/AMD2:2020  
 CAN/CSA-C22.2 NO. 60601-1-6:11 (R2021)  
 EN 61000-3-2:2019, IEC 61000-3-2:2018  
 EN/IEC 61000-3- 3:2013  
 EN 61000-4-2:2009, IEC 61000-4-2:2008  
 IEC 61000-4-4:2012 E  
 IEC 61000-4-5:2014  
 EN/IEC 61000-4- 3:2020  
 EN/IEC 61000-4-6: 2023  
 EN/IEC 61000-4-11: 2022  
 IEC 61000-4- 39:2017  
 EN 61000-4-8:2010, IEC 61000-4-8:2009  
 IEC 62359 Ed. 2.1 b: 2017  
 ISO 10993-1: 2018  
 ISO 10993-5: 2009  
 ISO 10993-10:2021  
 ISO 10993-12:2021  
 IEC 62304 Ed. 1.1 b: 2015  
 IEC 62366-1 Ed. 1.1 b:2020  
 ISO 14971: 2019+A11:2021  
 BS EN ISO 15223- 1:2021  
 BS EN ISO 20417:2021  
 BS EN ISO 13485:2016+A11:2021  
 ISTA 3A  
 IEC 62133-2:2017  
 IEC 60601-1-11:2015, IEC 60601- 11:2015/AMD1:2020  
 ANSI/AAMI HA60601-1- 11:2015/A1:2021;  
 CAN/CSA-C22.2 NO. 60601-1-11:15;

## Hardware Features

### Unique Aluminum Probe Casing

Waterproofing	IPX7 waterproof, it can be fully submerged into 1-meter deep water for up to 30 minutes and still be able to function after that.
Dustproofing	IP6X dustproof.
Drop test	4-ft drop testing; MIL-STD-810G compliant.
Advanced Micro-Organism Protection	High-Level Disinfection via Cidex OPA, Low-Level Disinfection via variety of approved sanitizing wipes HLD
Battery	2220 mAh Lithium Ion Battery. Not replaceable. Contact charger included. Battery Life Up to 2 hours. Battery Recharge from 10% to 90% in 90 minutes.

## Security

Data at rest	256-Bit AES
Data in transit	HTTPS TLS 1.2 Encryption

## Controls

Gain	
TGC (near, mid, far)	
Depth	

## Digital Image Storage

Cine loop playback	1 min
Digital storage	Unlimited with Cloud

## Connectivity

Data Export methods	DICOM 3.0/PDF
Exported still image formats	DICOM/png
Exported video clip formats	DICOM/mp4

## Temperature Testing

Operating high external environmental temp	40°C
Operational low temp	0°C

## H x W x D

152 x 52 x 37 mm  
 (5.98 x 2.05 x 1.45 in.)

## Weight

300 grams (10.6 oz)

## Charging Power Requirements

100-240 V

## Purchase Information

Warranty	3 years; optional additional 2 years
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For prescription use only. Butterfly iQ3™ is a portable ultrasound system designed for external ultrasound imaging. Read the User Manual for warnings, precautions and/or contraindications.

For questions or additional resources, contact us at [support@butterflynetwork.com](mailto:support@butterflynetwork.com).

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