

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.

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