

# 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                                            |

# Butterfly iQ3™ Specs and Features

## 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;<br>optional additional 2 years |
|----------|-----------------------------------------|

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).

Last Updated: July 2025