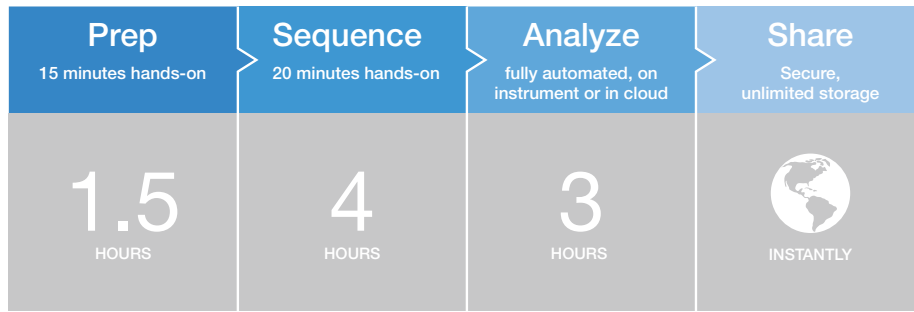


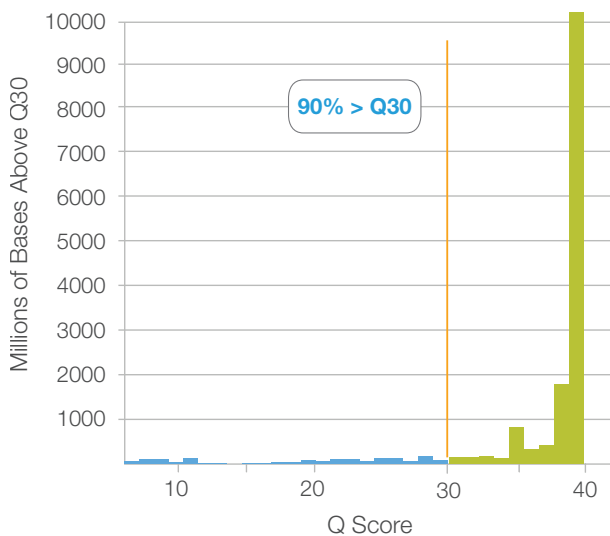


Figure 2: MiSeq Workflow



The MiSeq system's revolutionary workflow enables very fast turnaround time among next-generation desktop sequencing systems. Samples were prepared with the Nextera XT sample prep kit. Four-hour sequence time includes cluster generation, sequencing, and quality-scored basecalling with dual surface scanning for a 1 x 36 base pair run on a MiSeq system with MCS 2.4.

Figure 3: MiSeq Quality Score Distribution



Quality scores for a PhiX control library, 2 x 300 base pair run on a MiSeq System with MCS 2.4. This example shows 90% of bases sequenced above Q30.

### Optimized for Key Applications

Explore an ever-increasing range of sequencing applications. With its faster turnaround time and simplified workflows, the MiSeq offers a cost-effective alternative to capillary electrophoresis (CE) for applications such as clone checking, amplicon sequencing, and targeted transcript sequencing. Optimized analysis workflows are also available for small genome resequencing, *de novo* sequencing, small RNA sequencing, library QC, 16S metagenomics studies, as well as highly multiplexed applications such as TruSeq Custom Amplicon and TruSeq Custom Enrichment. Adjustable read lengths, flow cell options, and choice of single or paired-end reads allow unprecedented flexibility for matching data output to a broad range of experimental needs.

### MiSeq System Specifications

#### Instrument Configuration

RFID tracking for consumables  
 MiSeq Control Software  
 MiSeq Reporter Software

#### Instrument Control Computer (Internal)\*

Base Unit: Intel Core i7-2710QE 2.10 GHz CPU  
 Memory: 16 GB RAM  
 Hard Drive: 750 GB  
 Operating System: Windows 7 embedded standard  
 \*Computer specifications are subject to change.

#### Operating Environment

Temperature: 22°C ± 3°C  
 Humidity: Non-condensing 20%–80%  
 Altitude: Less than 2,000 m (6,500 ft)  
 Air Quality: Pollution degree rating of II  
 Ventilation: Maximum of 1,364 BTU/h  
 For Indoor Use Only

#### Light Emitting Diode (LED)

530 nm, 660 nm

#### Dimensions

WxDxH: 68.6 cm x 56.5 cm x 52.3 cm (27.0 in x 22.2 in x 20.6 in)  
 Weight: 54.5 kg (120 lbs)  
 Crated Weight: 90.9 kg (200 lbs)

#### Power Requirements

100–240V AC @ 50/60Hz, 10A, 400W

#### Radio Frequency Identifier (RFID)

Frequency: 13.56 MHz  
 Power: 100 mW

#### Product Safety and Compliance

NRTL certified IEC 61010-1  
 CE marked  
 FCC/IC approved



