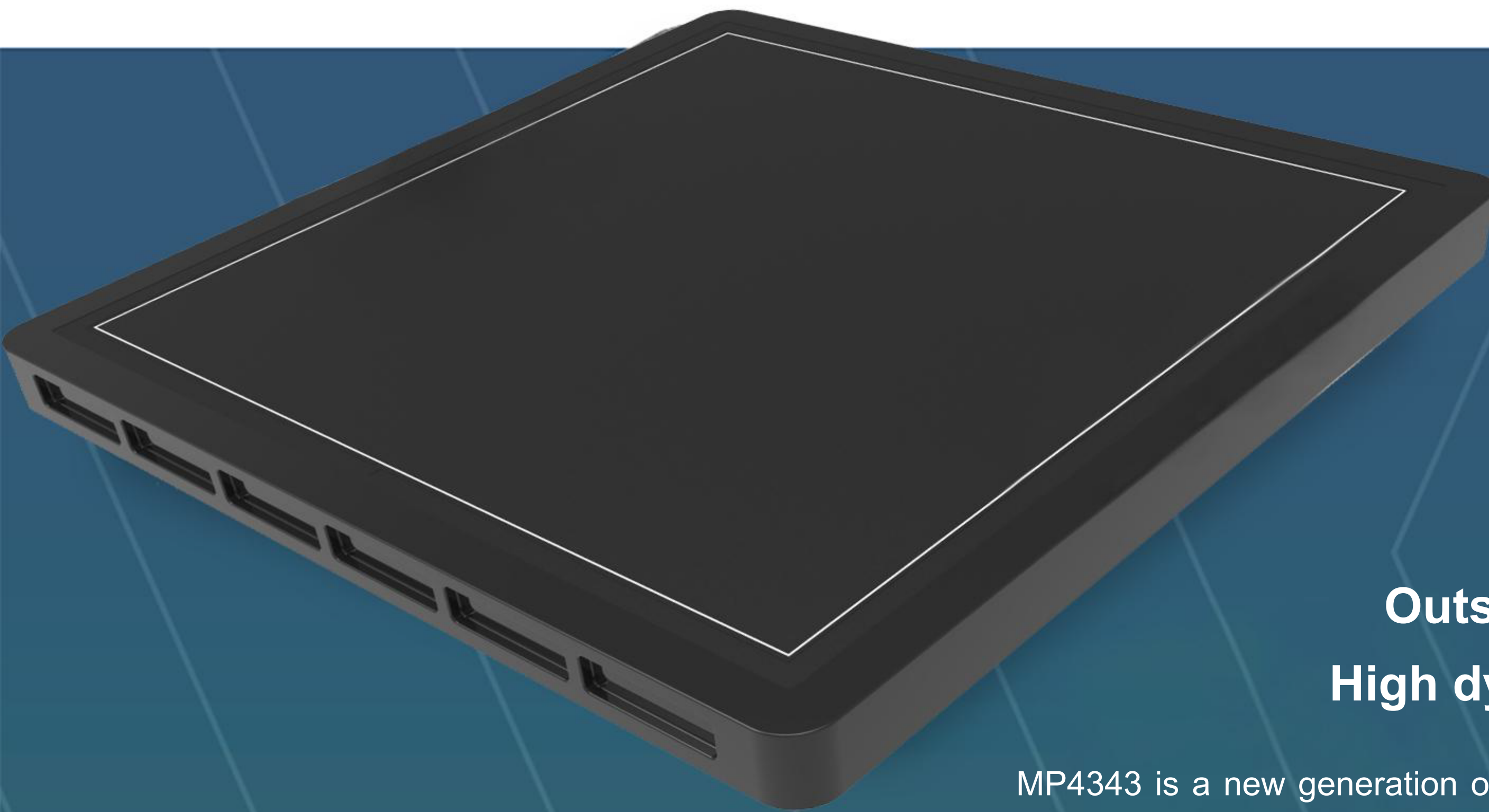


# MP 4343

## Industrial Flat Panel Detector



**Outstanding image quality**  
**High dynamic range imaging**

MP4343 is a new generation of flat panel detector developed by AOLONG X-RAY 100um pixel pitch amorphous silicon X-ray flat panel detector

### Brief

MP4343 flat panel detector has a pixel spacing of up to 100um and a frame rate of up to 30 frames/second. This flat panel detector supports the X-ray energy range from 20kV to 15MeV, and it can correspond to the corresponding application according to the selection of different scintillators. The customized optical fiber interface image acquisition card can easily complete the system integration. The image acquisition card is designed with built-in calibration function. The optical fiber transmission interface can meet the requirements of high-speed system integration, and a complete trigger interface that can synchronize with the X-ray circuit is built in. The complete software development library can fully support the basic requirements of image acquisition and image post-processing.

The wide range of X-ray energy, variable frame rate and the choice of various scintillators make MP4343 easy to meet the needs of various applications, such as industrial nondestructive testing, life and natural science research.

### Features and advantages

- 100um pixel spacing
- 16-bit ADC
- Very high sensitivity
- Real-time imaging up to 30 fps
- Application of X-ray energy levels with wide coverage
- Insulation design of optical fiber interface

### Scope of application

- Industrial non-destructive testing 3D CBCT
- Dosimetry application
- Scientific research application

	MP4343 made by AOLONG X-RAY
Receptor Type	Amorphous Silicon
Conversion Screen	CsI
Active Area	42.8cm×42.8cm
Pixel Matrix Total	4,280×4,280
Pixel Pitch	100μm <sup>2</sup>
Limiting Resolution	5.0 lp/mm
Energy Range	20KV-15MeV
Scan Method	Progressive
A/D Conversion	16 bits
Dynamic Mode	10fps(1×1), 20fps(2×2), 30fps(3×3)
Humidity	Operating(non-condensing): 20% to 80%
Ingress Protection	IP54 rated(protection against dust and splashing water)
Dimension	50cm(W)×50cm(H)×6.7cm(D)
Weight	29 kg
Housing Material	Aluminum frame with carbon-fiber entrance window