

IQ

Mechanical Comparison Between
Original And Updated (Ma2085) Camera

Top Level Assembly

Updated



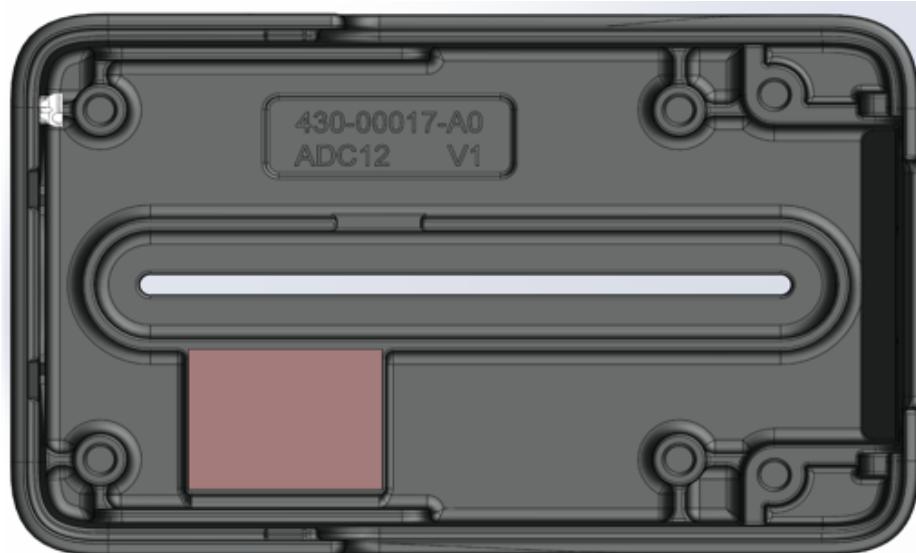
Original



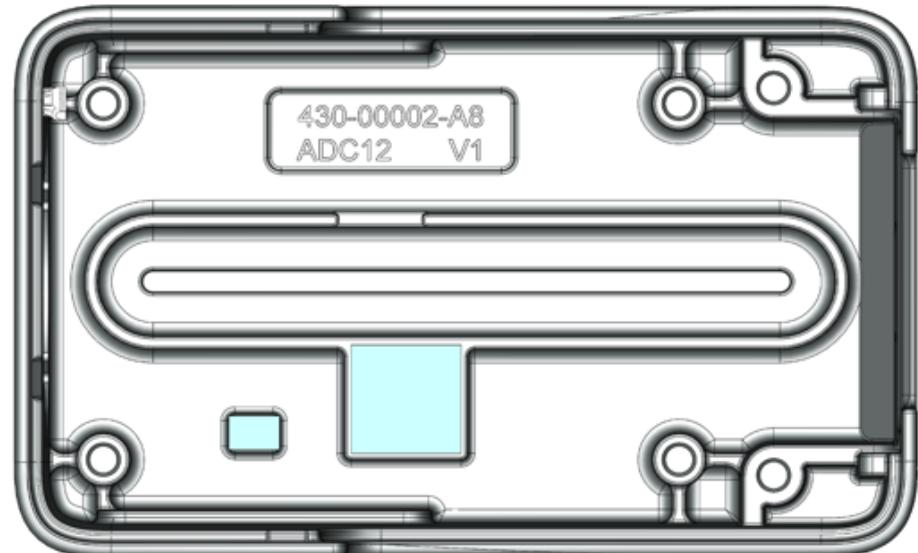
Identical Outer Geometry
Identical Electrical Interface And
Specs

Main Body

Updated



Original



Identical Outer Geometry

- Same Tooling Cavity

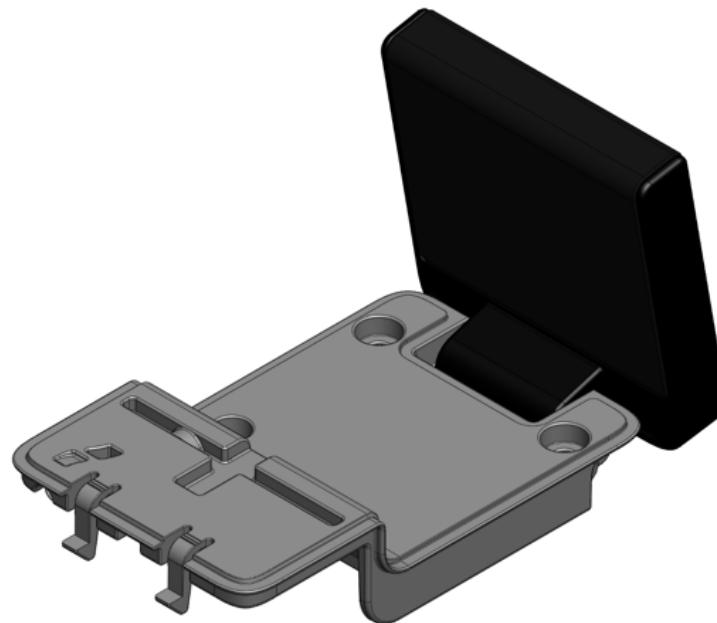
Same Material And Paint

Updated Internal Geometry

- Cooling Interface Size And Location
- Gap Pad Shape And Quantity
- Screw Tower Height

Foot Assembly

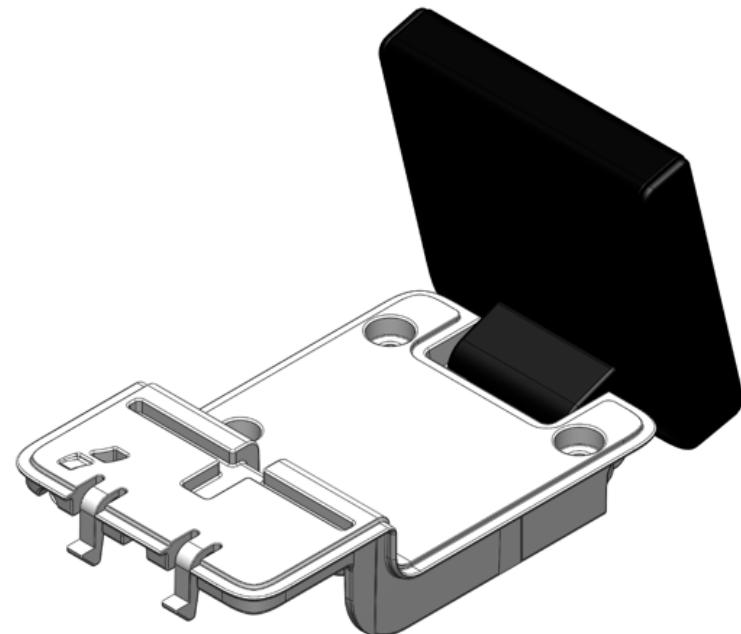
Updated



Same Foot, Hinge And Foot Soft Cover
Same Interface Towards Main Body
Same Outer Geometry

- After Assembly Of Main Soft Cover

Original



Updated Hard Cover (Details On Next Slide)

Hard Cover

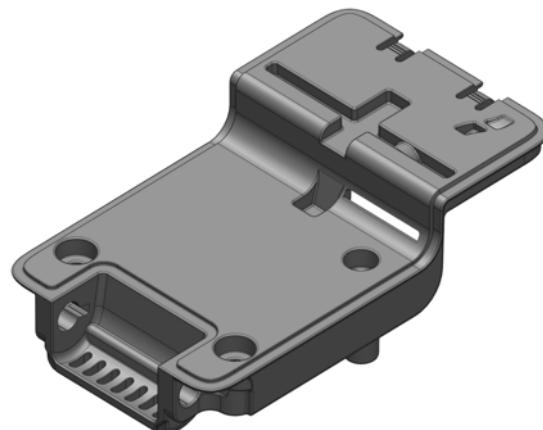
Same Material

- Flammability Rating
UL-94 V-1

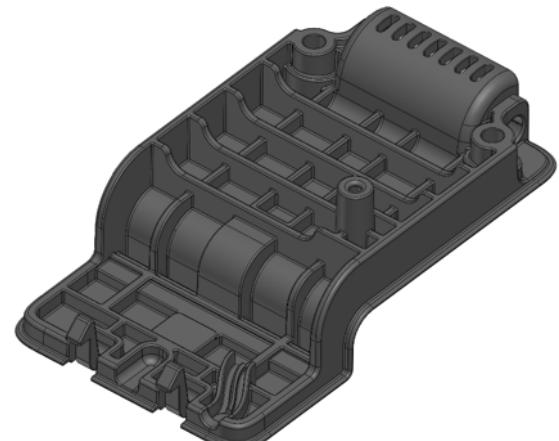
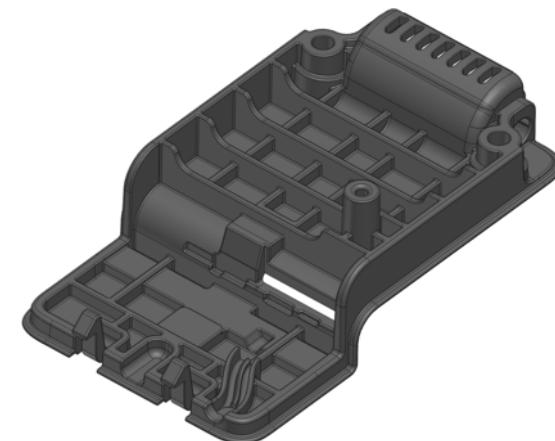
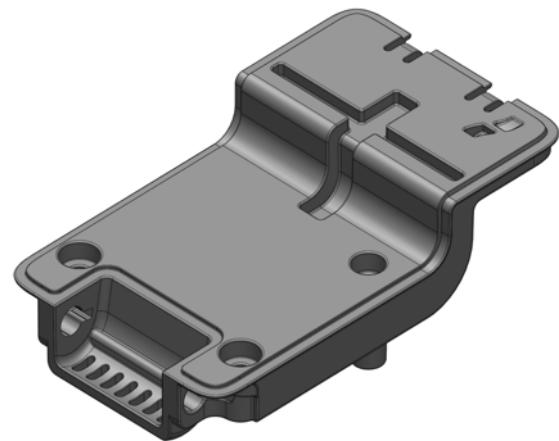
Geometry Updates To Fit Second Source Lens Module

- Slot Through Part
(Covered By Soft Cover
In Final Assembly)
- Removed Material On
Side Walls
- Modified Interface
Towards Soft Cover

Updated

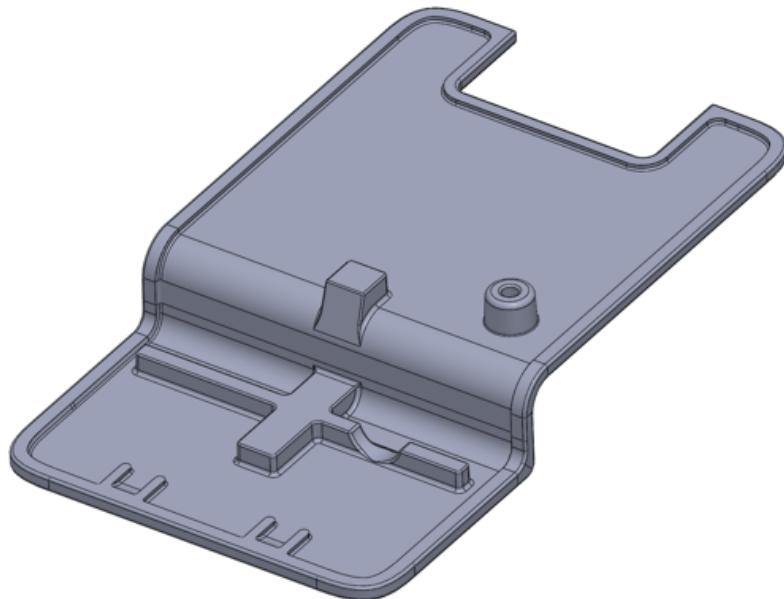


Original

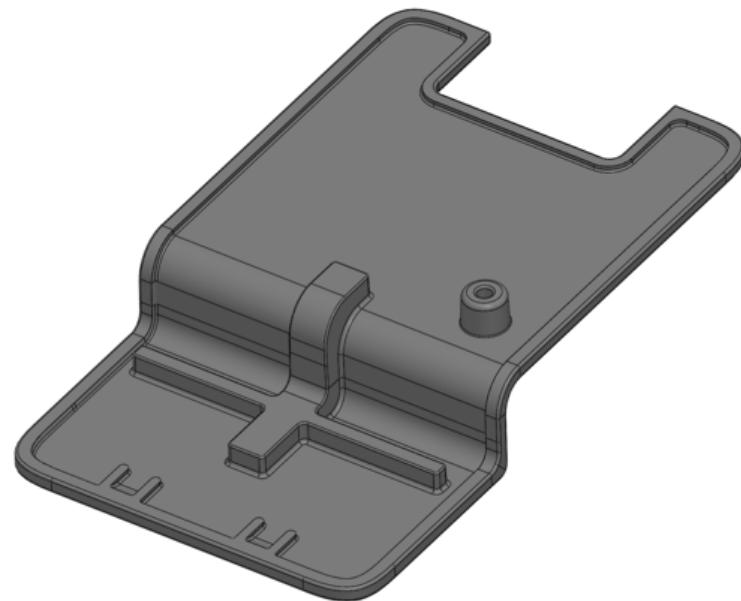


Soft Cover

Updated Original



Same Material (UL-94 V-1)
Same Outer Geometry



Updated Interface Towards Hard Cover

Main PCB

Same PCB Outline

Same Mounting To Main Body

Same Type Of PCB Material

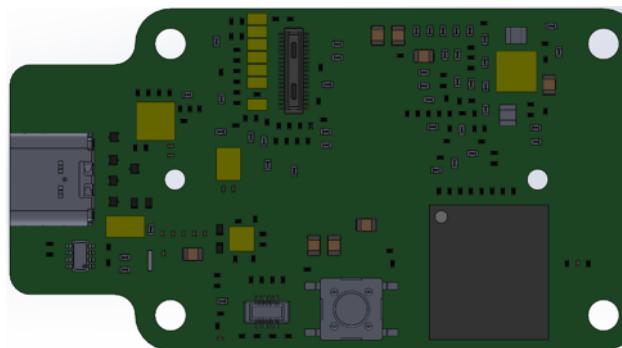
Identical Connector Location

Same Electrical Rating (5 V == 900 ma)

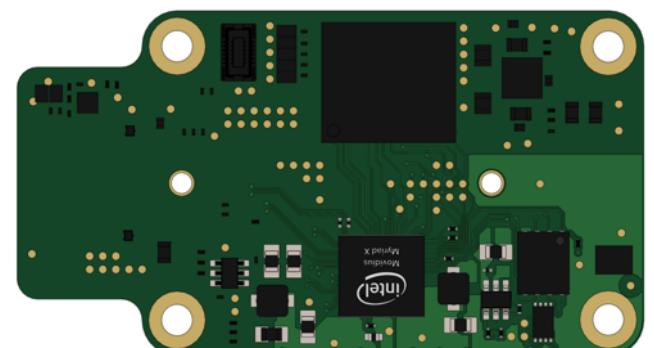
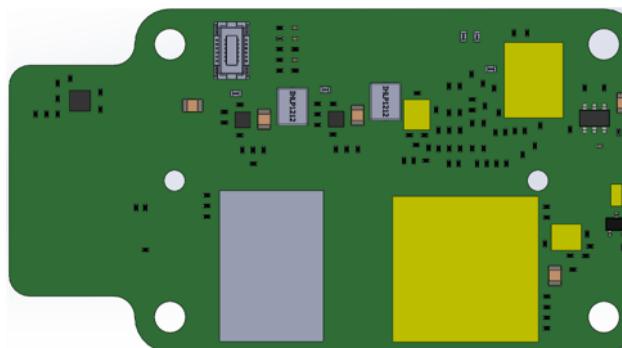
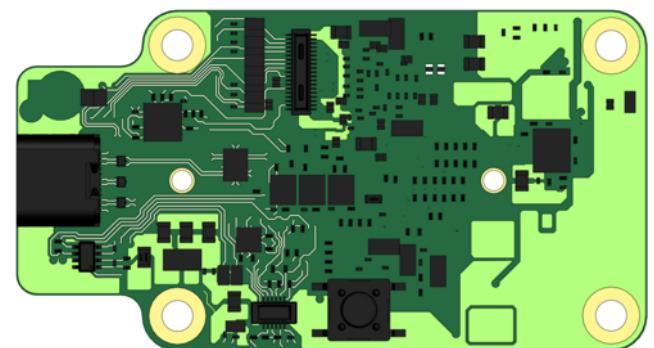
Reduced PCB Thickness

- 1.6 mm To 1.375 mm

Updated



Original



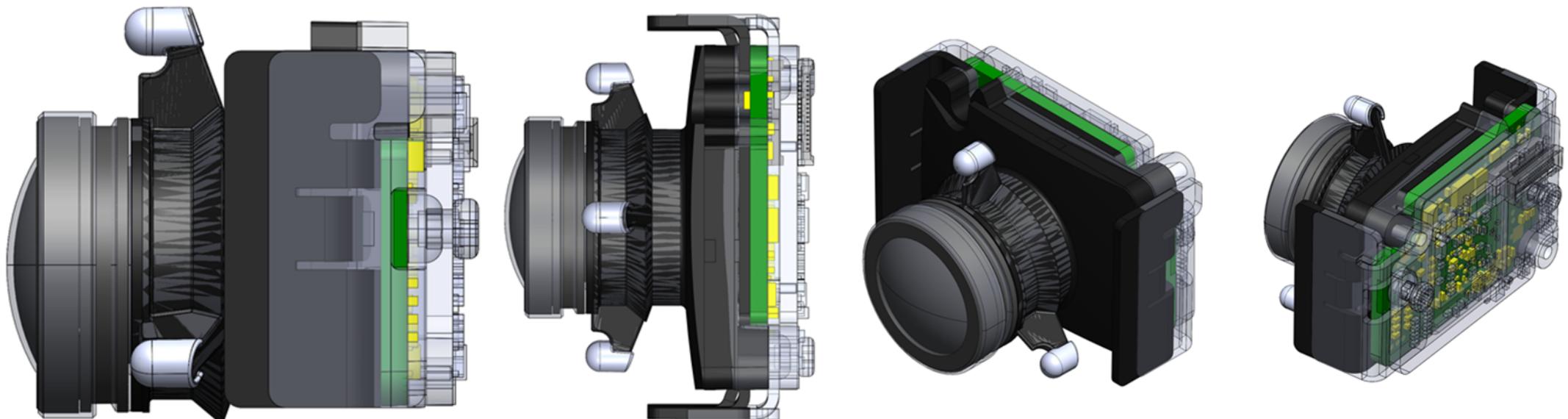
Lens Module

An Additional Second Source Have Been Introduced

- Same Interface Towards Main Body
- Same Attachment By Lens Cap
- Same Interface Towards Mainboard
- Same Sensor Board

Difference Between First And Second Source

- Second Source Is 2.7 mm Longer
- Different Construction Of Optics



The First And Second Source Are Layered In These Illustrations.
Second Source Is Shown As Transparent.

Sensor FPC

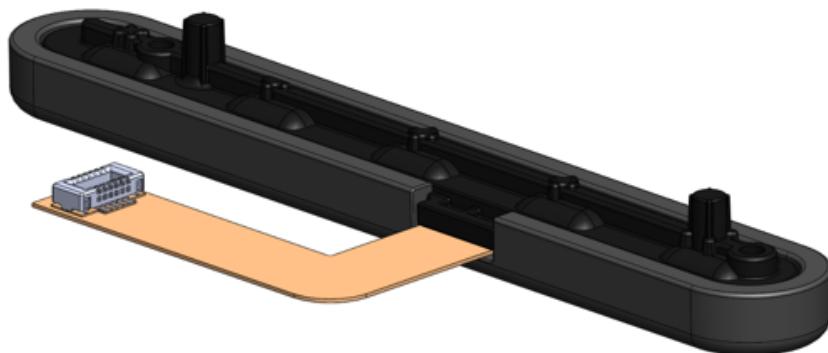
Same Material

Same Interface To Mainboard And
Sensor Board

Reduced Length To Fit Both Lens
Modules

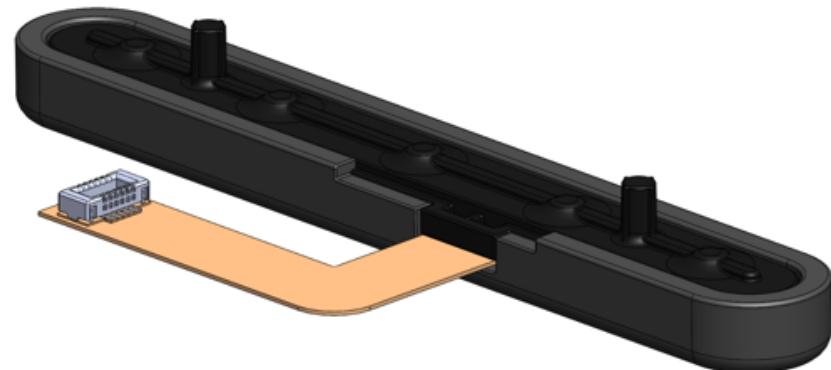
Microphone Array Module

Updated



Same Microphone FPC
Same Materials For All Components
Same Interface Towards Main Body

Original



Updated Mounting Pin Location
○ Updated Hole Location On
Mainboard PCB