Attribute	Mobileye® 6 series	Mobileye® 8 Connect™
EyeQ® Chip	EyeQ®2	EyeQ®4
Machine Learning Technology (AI)	Traditional machine learning	Deep Neural Network (DNN). (EyeQ®4 features embedded DNN accelerators)
Operations Per Second (OPS)	26 billion	2.5 trillion (~100 times more powerful than the EyeQ®2)
Forward Collision Warning/ Urban Forward Collision Warning (FCW/UFCW)	Single sensitivity level	Three available sensitivity levels - 'near' (2.4 seconds' gap to vehicle in front), 'medium' (2.7 seconds) and 'far' (3.0 seconds)
Virtual bumper (collision warning at zero speed)	Featured	Not yet featured. Planned implementation in future versions through over-the-air updates
Headway Monitoring & Warning (HMW)	Single sensitivity level	Three sensitivity levels - 'near' (0.6 seconds' gap to vehicle in front), 'medium' (1.2 seconds) and 'far' (2.5 seconds). The advanced menu configuration allows adjustment of sensitivity level. (Operates at speeds above 30km/h (19mph)).
Lane Departure Warning (LDW)	Featured	Featured
Pedestrian Collision Warning (PCW)	Works in daylight only	Includes nighttime detection (The system can work in extremely low light but not in complete darkness).
Intelligent High Beam Control (IHC)	Featured	Featured
Automatic Calibration	Featured	Features a new automatic mechanism called WMBC which is always active and improves system calibration
Firmware upgrade via CAN-A (updating versions)	Featured	Featured, via Ethernet during installation.
Analog signal support when CAN-bus is not featured	Supported by E-box	Supported by VSS (vehicle speed signal)

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Sensor	Aptina	Omnivision
Connector	CAN A, CAN B, RS485	CAN A, CAN B, RS485, Ethernet
GPS	Not featured	Featured
Camera angle width	38°	52°
Cellular modem for cloud connectivity	Not featured	Featured in 3G; 4G in development
GNSS Module for positioning (Global Navigation Satellite System)	Not featured	GLONASS, BeiDou and QZSS satellite support featured
Gyro	Not featured	Featured
Over-The-Air (OTA) updates	Not featured	OTA-updates allow Mobileye units to securely download system upgrades from the cloud and keep safety features current with Mobileye's latest technology.
Telematics/FMS	Featured via integration with 3rd party telematics systems	Mobileye Connect™ Platform is a unique system that combines collision avoidance alerts with g-sensor data to provide a powerful picture of how fleet safety is improving.