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NEWS RELEASE

Visteon introduces DriveCore™ autonomous driving platform to accelerate adoption of self-driving technology

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LAS VEGAS, Jan. 9, 2018 – Visteon Corporation (Nasdaq: VC) – a leading automotive cockpit technology company – is unveiling its DriveCore™ autonomous driving platform at CES® 2018. Designed to accelerate the development and commercialization of autonomous driving technology, DriveCore™ is the first solution to allow automakers to build autonomous driving solutions quickly and in an open collaboration model.

DriveCore™ was designed as a complete technology platform, consisting of the hardware, in-vehicle middleware and PC-based software toolset needed to develop machine learning algorithms for autonomous driving applications of Level 3 and above. Building on Visteon's success with a centralized computing approach, DriveCore™ will provide automakers a fail-safe domain controller, with a high degree of computing power scalability, which supports the integration of data from multiple camera, LiDAR and radar sensors.

DriveCore™ consists of three primary components, all of which can be experienced at Visteon's exhibit (CP-20) at CES:

- Compute is a modular, scalable computing hardware platform that can easily be adapted to all levels of automated driving. It is designed to deliver from 500 gigaflops to 20 teraflops of processing power (with existing Systems on Chip) in a scalable manner, independent of the type of central processing unit (CPU) used. It will support NVIDIA, Freescale, Qualcomm and, later, other processor types seamlessly – protecting an automaker's investment in this technology.

- Runtime is in-vehicle middleware that provides a secure framework to enable applications and algorithms to communicate in a real-time, high-performance environment. It enables sensor fusion in a sensor-independent manner, so sensors can be upgraded as new capabilities become available, such as radar going from 2-D to 3-D.
- Studio is a PC-based development environment that enables automakers to create and support an ecosystem of algorithm developers, unlocking innovation potential through an open framework for sensor-based artificial intelligence algorithm development. Studio allows easy integration of third-party algorithms and access to real-life sensor data – complemented by a simulation, validation and benchmarking environment for algorithms ranging from object detection to camera-based lane detection.

Consistent with the goal of creating an open collaboration model for automakers, Visteon is also announcing four new technology partners as part of the DriveCoreTM introduction:

- DeepScale uses deep learning to create an integrated model of the environment in real-time, from any combination of sensors. Then, DeepScale's deep neural networks (DNNs) add the perception capabilities needed for automated driving.
- STEER provides a fully automated parking solution, in which the car drops off passengers at a designated point, drives itself to the nearest automated parking zone, waits for a “summon signal,” then drives to the designated pick-up point.
- StradVision deploys machine learning algorithms to build advanced object detection and recognition software.
- Automotive Artificial Intelligence provides a graphical simulation environment, offering intelligent traffic and traffic scenarios, which runs in conjunction with DriveCore™ Studio.

Visteon will be hosting demonstrations of DriveCoreTM at its booth, where it will also be showcasing solutions that will speed the transition to an all-digital vehicle cockpit and, ultimately, autonomous driving. From fully reconfigurable instrument clusters and the latest-generation, high-definition (HD) digital display technologies to driver monitoring, ADAS integration and a virtualized instrument cluster domain, Visteon will be displaying products that will underpin the epic shift toward connected cars and autonomous vehicles.