

P2020

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Type of Project: New IEEE Standard

PAR Request Date: 22-Mar-2016

PAR Approval Date: 12-May-2016

PAR Expiration Date: 31-Dec-2020

Status: PAR for a New IEEE Standard

1.1 Project Number: P2020

1.2 Type of Document: Standard

1.3 Life Cycle: Full Use

2.1 Title: Standard for Automotive System Image Quality

3.1 Working Group: Automotive Image Quality Working Group (VT/ITS/2020_WG_AUTOIQ)

Contact Information for Working Group Chair

Name: Robert Stead

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Contact Information for Working Group Vice-Chair

None

3.2 Sponsoring Society and Committee: IEEE Vehicular Technology Society/Intelligent Transportation Systems (VT/ITS)

Contact Information for Sponsor Chair

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4.1 Type of Ballot: Individual

4.2 Expected Date of submission of draft to the IEEE-SA for Initial Sponsor Ballot: 03/2018

4.3 Projected Completion Date for Submittal to RevCom

Note: Usual minimum time between initial sponsor ballot and submission to Revcom is 6 months.: 02/2019

5.1 Approximate number of people expected to be actively involved in the development of this project: 25

5.2 Scope: This standard addresses the fundamental attributes that contribute to image and quality for automotive Advanced Driver Assistance Systems (ADAS) applications, as well as identifying existing metrics and other useful information relating to these attributes. It defines a standardized suite of objective and subjective test methods for measuring automotive camera image quality attributes, and it specifies tools and test methods to facilitate standards-based communication and comparison among OEM and Tier 1 system integrators and component vendors regarding automotive ADAS image quality.

5.3 Is the completion of this standard dependent upon the completion of another standard: No

5.4 Purpose: This standard specifies methods and metrics for measuring and testing automotive image quality to ensure consistency and create cross-industry reference points.

5.5 Need for the Project: Cameras are being used in greater numbers in automotive applications. Most of these systems have been developed independently, with no standardised calibration or measurement of image quality. Consumers have no standard reference point when using camera enabled systems, and OEM/Tier 1 developers cannot compare camera systems side by side.

5.6 Stakeholders for the Standard: Automotive OEMs, Automotive Tier 1 suppliers, image processing software and hardware companies, optics companies, sensor manufacturers, safety certification bodies, end users (drivers).

Intellectual Property

6.1.a. Is the Sponsor aware of any copyright permissions needed for this project?: No

6.1.b. Is the Sponsor aware of possible registration activity related to this project?: No

7.1 Are there other standards or projects with a similar scope?: No

7.2 Joint Development

Is it the intent to develop this document jointly with another organization?: No

8.1 Additional Explanatory Notes: