

Object Detection on DSP

Version 00.06

Release Notes

December 2017

Build ID: 00.06.02.00

The release note is divided into the following sections:

- New In This Release
- Validation Information
- Fixed In This Release
- Known Issues

New In This Release

- None

Validation Information

Release Configuration	Description	Validation Platform
All available configurations	Object Detection module runs on TI TMS320C66X DSP	Code Composer Studio [Datasheet] [User Guide]

This release is validated on the following:

- TDA2x EVM with:
 - Code Composer Studio version 5.1.0.09000
 - Code Generation Tool version 7.4.2
 - XDAIS version 7.24.00.04
 - DMAUTILS version 00.08.00.02
 - MATHLIB C66x version 3.1.2.1
 - VLIB C66x version 3.3.0.3

Fixed In This Release

Defect ID	Description	Applicable Release Configuration
ADASALGOS-94	OD 00.06.01 release not working with DMAUTILS 00.08.00.02	All available configurations

Known Issues

Defect ID	Description	Applicable Release Configuration
SDOCM00121308	Supports detection of up to 32 pedestrians, traffic signs and vehicles	All available configurations
SDOCM00121309	Identifies up to 26 classes of German traffic signs	All available configurations

Object Detection on DSP

Version 00.06

Release Notes

September 2017

Build ID: 00.06.01.00

The release note is divided into the following sections:

- New In This Release
- Validation Information
- Fixed In This Release
- Known Issues

New In This Release

- [ADASALGOS-90] Object detection shall accept number of trees and tree parameters for AdaBoost classifier from external descriptor file

Validation Information

Release Configuration	Description	Validation Platform
All available configurations	Object Detection module runs on TI TMS320C66X DSP	Code Composer Studio [Datasheet] [User Guide]
This release is validated on the following:		

- TDA2x EVM with:
 - Code Composer Studio version 5.1.0.09000
 - Code Generation Tool version 7.4.2
 - XDAIS version 7.24.00.04
 - DMAUTILS version 00.08.00.02
 - MATHLIB C66x version 3.1.2.1
 - VLIB C66x version 3.3.0.3

Fixed In This Release

Defect ID	Description	Applicable Release Configuration
N/A	None	All available configurations

Known Issues

Defect ID	Description	Applicable Release Configuration
SDOCM00121308	Supports detection of up to 32 pedestrians, traffic signs and vehicles	All available configurations
SDOCM00121309	Identifies up to 26 classes of German traffic signs	All available configurations

Object Detection on DSP

Version 00.06

Release Notes

June 2017

Build ID: 00.06.00.00

The release note is divided into the following sections:

- New In This Release
- Validation Information
- Fixed In This Release
- Known Issues

New In This Release

- Object detection module is modified to accept AdaBoost classifier weights from user
- File header updates related to licensing information

Validation Information

Release Configuration	Description	Validation Platform
All available configurations	Object Detection module runs on TI TMS320C66X DSP	Code Composer Studio [Datasheet] [User Guide]

This release is validated on the following:

- TDA2x EVM with:
 - Code Composer Studio version 5.1.0.09000
 - Code Generation Tool version 7.4.2
 - XDAIS version 7.24.00.04
 - DMAUTILS version 00.08.00.02
 - MATHLIB C66x version 3.1.2.1
 - VLIB C66x version 3.3.0.3

Fixed In This Release

Defect ID	Description	Applicable Release Configuration
N/A	None	All available configurations

Known Issues

Defect ID	Description	Applicable Release Configuration
SDOCM00121308	Supports detection of up to 32 pedestrians, traffic signs and vehicles	All available configurations
SDOCM00121309	Identifies up to 26 classes of German traffic signs	All available configurations

Object Detection on DSP

Version 00.05

Release Notes

February 2016

Build ID: 00.05.00.00

The release note is divided into the following sections:

- New In This Release
- Validation Information
- Fixed In This Release
- Known Issues

New In This Release

- Improved Pedestrian Detection
- Improved Traffic Sign Detection
- Support for Vehicle Detection

Validation Information

Release Configuration	Description	Validation Platform
All available configurations	Object Detection module runs on TI TMS320C66X DSP	Code Composer Studio [Datasheet] [User Guide]

This release is validated on the following:

- TDA2x EVM with:
 - Code Composer Studio version 5.1.0.09000
 - Code Generation Tool version 7.4.2
 - XDAIS version 7.24.00.04
 - EDMA3 LLD version 02.12.00.20
 - Mathlib C66x 3.1.0.0
 - VLIB C66x 3.3.0.1

Fixed In This Release

Defect ID	Description	Applicable Release Configuration
N/A	None	All available configurations

Known Issues

Defect ID	Description	Applicable Release Configuration
SDOCM00121308	Supports detection of up to 32 pedestrians, traffic signs and vehicles	All available configurations
SDOCM00121309	Identifies up to 26 classes of German traffic signs	All available configurations

Object Detection on DSP

Version 00.04

Release Notes

June 2015

Build ID: 00.04.00.00

The release note is divided into the following sections:

- New In This Release
- Validation Information
- Fixed In This Release
- Known Issues

New In This Release

- Support of feature planes with varying ROI across scales
- Support of dynamic ROI to allow performance tradeoff

Validation Information

Release Configuration	Description	Validation Platform
All available configurations	Object Detection module runs on TI TMS320C66X DSP	Code Composer Studio [Datasheet] [User Guide]

This release is validated on the following:

- TDA2x EVM with:
 - Code Composer Studio version 5.1.0.09000
 - Code Generation Tool version 7.4.4
 - XDAIS version 7.24.00.04
 - EDMA3 LLD version 02.12.00.20
 - Mathlib C66x 3.1.0.0

Fixed In This Release

Defect ID	Description	Applicable Release Configuration
SDOCM00116862	Unable to link OD library due to exposed Open CV symbols. Open CV symbols must be hidden or renamed.	All available configurations
SDOCM00116863	Environment Variable for setting up XDAIS environment variable is incorrect in OD User Guide	All available configurations

Known Issues

Defect ID	Description	Applicable Release Configuration
SDOCM00114593	Supports maximum 32 pedestrians and 32 traffic signs detection per frame	All available configurations
SDOCM00114595	Identifies upto 43 German traffic signs – exact details of signs are mentioned in user guide	All available configurations

Object Detection on DSP

Version 00.03

Release Notes

February 2015

Build ID: 00.03.01.00

The release note is divided into the following sections:

- New In This Release
- Validation Information
- Fixed In This Release
- Known Issues

New In This Release

- Support of feature planes with varying ROI across scales
- Support of dynamic ROI to allow performance tradeoff

Validation Information

Release Configuration

All available configurations

Description

Object Detection module runs on TI TMS320C66X DSP

Validation Platform

Code Composer Studio
[\[Datasheet\]](#)[\[User Guide\]](#)

This release is validated on the following:

- TDA2x EVM with:
 - Code Composer Studio version 5.1.0.09000
 - Code Generation Tool version 7.4.2
 - XDAIS version 7.24.00.04
 - EDMA3 LLD version 02.12.00.20
 - Mathlib C66x 3.1.0.0

Fixed In This Release

Defect ID	Description	Applicable Release Configuration
SDOCM00114 953	DSP hangs when PD demo is run back to back on Vision SDK	All available configurations

Known Issues

Defect ID	Description	Applicable Release Configuration
SDOCM00114 593	Supports maximum 32 pedestrians and 32 traffic signs detection per frame	All available configurations
SDOCM00114 595	Identifies upto 43 German traffic signs – exact details of signs are mentioned in user guide	All available configurations

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Object Detection on DSP

Version 00.03

Release Notes

January 2015

Build ID: 00.03.00.00

The release note is divided into the following sections:

- New In This Release
- Validation Information
- Fixed In This Release
- Known Issues

New In This Release

- Support of feature planes with varying ROI across scales
- Support of dynamic ROI to allow performance tradeoff

Validation Information

Release Configuration	Description	Validation Platform
OBJDET_001	Object Detection module runs on TI TMS320C66X DSP	Code Composer Studio [Datasheet] [User Guide]

This release is validated on the following:

- TDA2x EVM with:
 - Code Composer Studio version 5.1.0.09000
 - Code Generation Tool version 7.4.2
 - XDAIS version 7.24.00.04
 - EDMA3 LLD version 02.12.00.20
 - Mathlib C66x 3.1.0.0

Fixed In This Release

Defect ID	Description	Applicable Release Configuration
None	NA	NA

Known Issues

Defect ID	Description	Applicable Release Configuration
SDOCM00114 593	Supports maximum 32 pedestrians and 32 traffic signs detection per frame	All available configurations
SDOCM00114 595	Identifies upto 43 German traffic signs – exact details of signs are mentioned in user guide	All available configurations

Object Detection on DSP

Version 00.02

Release Notes

October 2014

Build ID: 00.02.00.00

The release note is divided into the following sections:

- New In This Release
- Validation Information
- Fixed In This Release
- Known Issues

New In This Release

- First release of Object Detection Module to support Traffic Sign Recognition along with Pedestrian Detection.

Validation Information

Release Configuration	Description	Validation Platform
OBJDET_001	Object Detection module runs on TI TMS320C66X DSP	Code Composer Studio [Datasheet] [User Guide]

This release is validated on the following:

- TDA2x EVM with:
 - Code Composer Studio version 5.1.0.09000
 - Code Generation Tool version 7.4.2
 - XDAIS version 7.22.00.03
 - EDMA2 LLD version 02.11.14.19
 - Mathlib C66x 3.1.0.0

Fixed In This Release

Defect ID	Description	Applicable Release Configuration
SDOCM00113513	Multiple rectangles per pedestrian observed	OBJDET_001

Known Issues

Defect ID	Description	Applicable Release Configuration
None	Supports only 32 pedestrians and 32 traffic signs each	OBJDET_001
None	Identifies upto 43 German traffic signs	OBJDET_001
None	There could be at max of 512 window detections per PD/TSR.	OBJDET_001

Object Detection on DSP

Version 00.01

Release Notes

July 2014

Build ID: 00.01.00.00

The release note is divided into the following sections:

- New In This Release
- Validation Information
- Fixed In This Release
- Known Issues

New In This Release

- First release of Object Detection Module to support Pedestrian Detection

Validation Information

Release Configuration	Description	Validation Platform
OBJDET_001	Object Detection module runs on TI TMS320C66X DSP	Code Composer Studio [Datasheet] [User Guide]

This release is validated on the following:

- TDA2x EVM with:
 - Code Composer Studio version 5.1.0.09000
 - Code Generation Tool version 7.4.2
 - XDAIS version 7.22.00.03

Fixed In This Release

Defect ID	Description	Applicable Release Configuration
None	NA	OBJDET_001

Known Issues

Defect ID	Description	Applicable Release Configuration
None	Pedestrian detection currently does only classification and window grouping. Pedestrian tracking is not supported in this release.	OBJDET_001

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