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Printed electronics -
Part 302-7: Equipment - Inkjet - Measurement methods of dot placement evaluation for printed electronics

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IEC Secretariat
3, rue de Varembé
CH-1211 Geneva 20
Switzerland

Tel.: +41 22 919 02 11
info@iec.ch
www.iec.ch

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CONTENTS

FOREWORD....3
INTRODUCTION....5
1 Scope....6
2 Normative reference....6
3 Terms, definitions, and abbreviated terms....6
4 Parameters and measurement methods....7
4.1 General....7
4.2 Environmental conditions....7
4.3 Dot placement consideration....7
4.3.1 General....7
4.3.2 Evaluation....8
4.4 Measurement methods....8
4.4.1 General....8
4.4.2 A printed example....8
4.4.3 Origin in a printer....9
4.4.4 Origin(s) on a medium....13
4.5 Evaluation....16
5 Report....17
Annex A (informative) Printing results....18
A.1 Examples of printing results....18
A.1.1 Printed result....18
A.1.2 Image data processing (see Annex B for detailed image processing)....18
A.1.3 Image processing result....20
A.2 Other experiments....21
Annex B (informative) Examples of image processing....23
B.1 General....23
B.2 Image processing for dot placement measurement....23
B.2.1 General....23
B.2.2 Colour conversion (if needed)....23
B.3 Image stitching....25
B.3.1 General....25
B.3.2 Image stitching technology....26
Bibliography....29

Figure 1 – Example of printed result....9
Figure 2 – Example of processed image....10
Figure 3 – Radius and circularity....11
Figure 4 – Example of a calculated dot and an expected dot....12
Figure 5 – Example of printed result on medium with origin(s)....13
Figure 6 – Example of processed image....14
Figure 7 – Example of a calculated dot and an expected dot....15
Figure A.1 – Example of printed result....18
Figure A.2 – Example of processed data after binarization....19
Figure A.3 – Example of processed data after finding the circle(s) and centres....20

Figure A.4 – Printed example (or sample) of printed dots with varied sizes.....21
Figure A.5 – Printed example of printed dots with position errors (dot deviation from target substrates) 22
Figure A.6 – Printed example (or sample) of printed dots with satellites 22
Figure B.1 – Original image (same as in Figure A.1).....23
Figure B.2 – RGB histogram of the image shown in Figure B.1 24
Figure B.3 – HSL histogram of the image shown in Figure B.1 25
Figure B.4 – Binarized image by using a threshold in L-axis.....25
Figure B.5 –Image with reference marks 26
Figure B.6 – Example of aligning and stitching 27
Figure B.7 – Example of aligning and stitching 28

Table A.1 – Example of result 21
Table B.1 – RGB data of Figure B.1 24
Table B.2 – HSL data of Figure B.1 24

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Printed electronics - Part 302-7: Equipment - Inkjet - Measurement methods of dot placement evaluation for printed electronics

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The text of this International Standard is based on the following documents:

Draft	Report on voting
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Full information on the voting for its approval can be found in the report on voting indicated in the above table.

The language used for the development of this International Standard is English.

This document was drafted in accordance with ISO/IEC Directives, Part 2, and developed in accordance with ISO/IEC Directives, Part 1 and ISO/IEC Directives, IEC Supplement, available at www.iec.ch/members_experts/refdocs. The main document types developed by IEC are described in greater detail at www.iec.ch/publications.

A list of all parts in the IEC 62899 series, published under the general title *Printed electronics*, can be found on the IEC website.

The committee has decided that the contents of this document will remain unchanged until the stability date indicated on the IEC website under webstore.iec.ch in the data related to the specific document. At this date, the document will be

– reconfirmed,

– withdrawn, or

– revised.

INTRODUCTION

Inkjet technologies, historically confined to the realm of imaging printing or conventional "graphics printing", have undergone significant advancements in recent years. The emergence of cutting-edge technologies specific to inkjet print-heads, functional inks, and print-head driving mechanisms has extended the application of these technologies into a novel field known as “functional printing”, encompassing areas such as printed electronics.

This document articulates the methodologies employed to gauge "inkjet printed position accuracy", a crucial parameter in ensuring the requisite print quality. The assessment of this accuracy necessitates the selection of an appropriate medium, as delineated in IEC 62899-302-4, underlining its importance in achieving the desired output.

1 Scope

This part of IEC 62899 provides measurement methods for inkjet printing dot placement evaluation for printed electronics.

NOTE This document only describes the measurement methods, not the evaluation of the printing system.

2 Normative reference

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

IEC 62899-302-4, *Printed electronics - Part 302-4: Medium for inkjet printing dot placement evaluation*