

Approved Response from editorial team to alleged INCITS 385 defects reported in M1/06-0593.

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Edited: umahlmeister@L1id.com

Date: 2006-12-13

Document: M1/06-1083

#	Clause	Comment (justification for change) by the NB	Proposed change by the NB	Explanation	Disposition
1	Table 2 (page 9)	Valid Values of Record length $0 < \text{Record Length} \leq 232 - 1$	Valid Values of Record length $= 46 < \text{Record Length} \leq 232 - 1$	Following the last paragraph of 5.1 (page 7): The minimum record length should be calculated by following equation: 14 (a fixed-length Facial Record Header) + 20 (a fixed-length Facial Information) + 12 (a fixed-length Image Information) = 46 bytes	Accept in principle, but the situation is more difficult, as at least one image data block must be present, so the suggested wording is: Valid Values of Record length $= 12 + \text{sum of lengths of included Facial Record Data Blocks} \leq \text{Record Length} \leq 2^{32} - 1$ INCITS 385 should be revised to allow 0 images
2	8.3.4 (page 31)	None	The CC should always less than A. (The CC and A are defined in the Figure 8)	The section 8.3.4 should provide the maximum limitation of Width of Head.	Reject, that is exactly what is said in 8.3.4: A:CC $\geq 7:4$, i.e. A/CC $\geq 7/4$, i.e. A $\geq 7/4$ CC, or CC $\leq 4/7$ A
3	Table 14 (page 33)	X coordinate of Second (left) Eye = $0.625 * W$	X coordinate of Second (left) Eye	The equation will be provided in "Value" field.	Accept. (The revision should be used to eliminate such inconsistencies).
4	Table 14 (page 33)	$(0.375 * W) - 1$	$0.375 * W + 1$	The origin X an Y coordinates are counted start at 1's.	Assertion of 1-oriented (x,y) values is incorrect - clause 9.2.4 says (0,0). But neither equation here correct. Need to align (literally) with ISO 19794-5. In clause 5.6.3, Table 9, change rows 4 and 5 to indicate that counts start at 0, not 1.
5	Table 14 (page 33)	$(0.625 * W) - 1$	$0.625 * W$	The origin X an Y coordinates are counted start at 1's.	Assertion of 1-oriented (x,y) values is incorrect - clause 9.2.4 says (0,0). Proposed change is incorrect. Need to align (literally) with ISO 19794-5. In clause 5.6.3, Table 9, change rows 4 and 5 to indicate that counts start at 0, not 1.
6	Figure 9 (page 34)	The equations and values in figure are not appropriate.	The equations and values in figure should be corrected.	The original equations in Table 14 are not appropriate.	The comment is not clear. The equations in the figure are of value, in my opinion. But in any case the ISO version is correct here. There

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2 Type of comment: ge = general te = technical ed = editorial

NOTE Columns 1, 2, 4, 5 are compulsory.

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					<p>is a bug in Table 14 (correct is 0.375W).</p> <p>So changes to 385 are needed to align with ISO. This requires fixes in:</p> <ol style="list-style-type: none"> 1. Table 14, 2. Figure 10a and b, and 3. section 9.2.4 example numbers <p>I have a feeling these have been posted to M1 before by somebody else. Need to look at register.</p> <p>This has been discussed in M1 as well as in ISO back and forth. The two aspects of width versus pixel count versus pixel position is admittedly confusing. In the end, only a proper definition of the eye positions based on the image width and height values should be given. The ISO version correctly states, that the inter-eye distance is 60 pixel inclusive based on their definition of the eye positions. This is definitely wrong in ANSI 385 (149-89 +1 = 91) and ICAO (which is the FCD version of ISO).</p> <p>I would prefer the following: Let's adopt the ISO definition, but delete the confusing distances in the image, indicated by arrows. See below:</p>

9.2.4 Minimum Width Token Image

The minimum required image width is 240 pixels. This corresponds to an image height of 320 pixels, a Y coordinate of eyes of 144, X coordinate of the first eye of 90 and X coordinate of second eye of 149. The distance from eye to eye (inclusive) in this case is therefore 60 pixels. ...

Substitute Table 14 with:

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Table 14 - The geometric characteristics of the Token Image Type

Feature or Parameter	Value
Image Width	W
Image Height	W/0.75
Y coordinate of Eyes	0.6 * W
X coordinate of First (right) Eye	0.375 * W
X coordinate of Second (left) Eye	(0.625 * W) - 1
Width from eye to eye (inclusive)	0.25 * W

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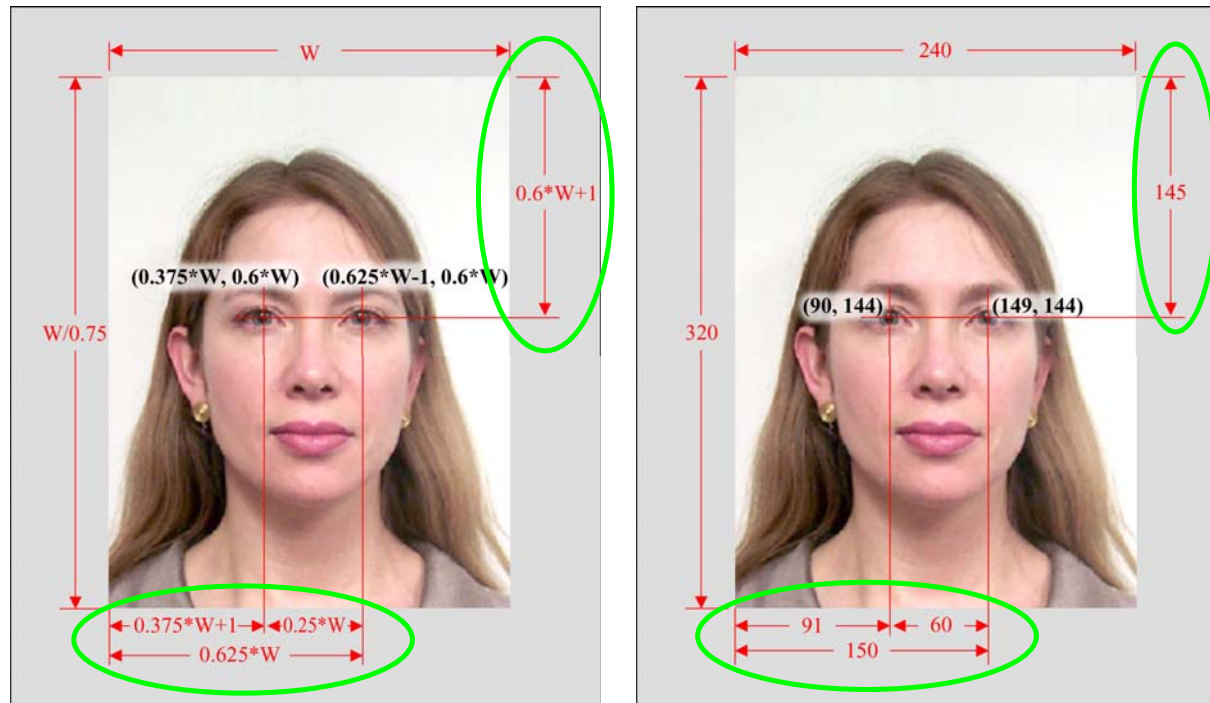
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Remove the information marked in green. They give no extra information but are confusing to the reader (and shorten the red lines to mark only the eye positions)
 Finally, a clause should be added about rounding (as W is 240 pixel minimum only and other specifications are best practice only). E.g.

"If rounding of the eye positions or the image height is necessary due to a different selection of W, rounding shall take place in the mathematical sense to the next integer value."

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