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TUB registration: 20230801-EE68/EE68LONP.PDF / .PS
application for evaluation and measurement of display or print output
TUB material: code=rha4ta

Input and output media and applications					Technical Report (TR) or Standard	Method & Test: Linearization
Input	Output	Input media	Output media	Application		
–	–	–	–	Basis	ISO/IEC TR 24705	{ DIN 33866-1 DIN 33872-1
analog ²⁾	analog	ISO/IEC-file series equally spaced in <i>rgb</i> * ISO/IEC-test chart (hardcopy) series equally spaced in <i>LCh</i> *	Hardcopy	Copier	ISO/IEC 15775 ²⁾	{ DIN 33866-2 ²⁾ JIS X 6933 ¹⁾ ²⁾
analog ²⁾	digital	ISO/IEC-test chart (hardcopy) series equally spaced in <i>Lch</i> *	File	Scanner	ISO/IEC TR 24705	DIN 33866-4
digital ¹⁾	analog	ISO/IEC-test chart (File) series equally spaced in <i>rgb</i> *	{ Hardcopy Softcopy	{ Printer Display	ISO/IEC TR 24705 ISO/IEC TR 24705 ISO 9241-306:2018 ¹⁾	{ DIN 33866-3 DIN 33872-2,4 DIN 33866-5 DIN 33872-2,4

1) Digital ISO-test files for free download from: <http://standards.iso.org/iso/9241/306/ed-2/index.html>

2) Analog ISO-test charts are available from 3 sources: DIN 33866-2, JIS X 6933, Richter, 2012, offset print (3600dpi), siehe *Colour and Colour Vision*, compare as file <http://standards.iso.org/iso/9241/306/ed-2/ES15.PDF>

ISO/IEC-input linearization method				ISO/IEC-output linearization method, OUTLIN16_01.PDF			
Input	Output	Application	Technical Report (TR) or Standard	Input	Output media	Application	Technical Report (TR) or Standard
Original scene + CIE colours	ISO/IEC Image File	Reference Image File	ISO/IEC 15775 ²⁾ ISO/IEC TR 24705	ISO/IEC File	Hardcopy	Printer	ISO/IEC TR 19797
				ISO/IEC File	Softcopy	Display	ISO 9241-306:2018 8 viewing conditions
				ISO/IEC File	{ Softcopy Hardcopy Hardcopy	{ Display Offset Printer	{ CIE R8-09:2015 (CIE internal) + http://farbe.li.tu-berlin.de/OUTLIN16_01.PDF

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Input and output media and applications					Technical Report (TR) or Standard	Method & Test: Linearization
Input	Output	Input media	Output media	Application		
–	–	–	–	Basis	ISO/IEC TR 24705 ³⁾ ⁴⁾ former DIS 19839-1 ³⁾	{ DIN 33866-1 DIN 33872-1
analog ²⁾	analog	ISO/IEC-file series equally spaced in <i>rgb</i> * ISO/IEC-test chart (hardcopy) series equally spaced in <i>LCh</i> *	Hardcopy	Copier	ISO/IEC 15775:2022 ²⁾ ed-2: digital files	{ DIN 33866-2 ²⁾ JIS X 6933 ¹⁾ ²⁾
analog ²⁾	digital	ISO/IEC-test chart (hardcopy) series equally spaced in <i>Lch</i> *	File	Scanner	ISO/IEC TR 24705 ³⁾ ⁴⁾ former DIS 19839-3 ³⁾	DIN 33866-4
digital ¹⁾	analog	ISO/IEC-test chart (File) series equally spaced in <i>rgb</i> *	{ Hardcopy Softcopy	{ Printer Display	ISO/IEC TR 24705 ³⁾ ⁴⁾ former DIS 19839-2 ³⁾ ISO/IEC TR 24705 ³⁾ ⁴⁾ former DIS 19839-4 ³⁾ ISO 9241-306:2018 ¹⁾	{ DIN 33866-3 DIN 33872-2,4 DIN 33866-5 DIN 33872-2,4

1) Digital ISO-test files for free download from: <http://standards.iso.org/iso/9241/306/ed-2/index.html>

2) Analog ISO-test charts are available from 3 sources: DIN 33866-2, JIS X 6933, Richter, 2012, offset print (3600dpi), siehe *Colour and Colour Vision*, compare as file <http://standards.iso.org/iso/9241/306/ed-2/ES15.PDF>

3) Free download of content of ISO documents for example for new standard projects, see many URLs in: <http://farbe.li.tu-berlin.de/EE68/EE681-3N.PDF>. 4) Withdrawn in 2019.

ISO/IEC-input linearization method				ISO/IEC-output linearization method, OUTLIN16_01.PDF			
Input	Output	Application	Technical Report (TR) or Standard	Input	Output media	Application	Technical Report (TR) or Standard
Original scene + CIE colours	ISO/IEC Image File	Reference Image File	ISO/IEC 15775 ²⁾ ed-2: digital files ISO/IEC TR 24705 ³⁾ ⁴⁾	ISO/IEC File	Hardcopy	Printer	ISO/IEC TR 19797 ³⁾ ⁴⁾
				ISO/IEC File	Softcopy	Display	ISO 9241-306:2018 8 viewing conditions
				ISO/IEC File	{ Softcopy Hardcopy Hardcopy	{ Display Offset Printer	{ CIE R8-09:2015 (CIE internal) + http://farbe.li.tu-berlin.de/OUTLIN16_01.PDF

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Input and output media and applications					Technical Report (TR) or Standard	Method & Test: Linearization
Input	Output	Input media	Output media	Application		
–	–	–	–	Basis	ISO/IEC TR 24705 ³⁾ ⁴⁾ former DIS 19839-1 ³⁾	{ DIN 33866-1 DIN 33872-1
analog ²⁾	analog	ISO/IEC-file series equally spaced in <i>rgb</i> * ISO/IEC-test chart (hardcopy) series equally spaced in <i>LCh</i> *	Hardcopy	Copier	ISO/IEC 15775:2022 ²⁾ ed-2: digital files	{ DIN 33866-2 ²⁾ JIS X 6933 ¹⁾ ²⁾
analog ²⁾	digital	ISO/IEC-test chart (hardcopy) series equally spaced in <i>Lch</i> *	File	Scanner	ISO/IEC TR 24705 ³⁾ ⁴⁾ former DIS 19839-3 ³⁾	DIN 33866-4
digital ¹⁾	analog	ISO/IEC-test chart (File) series equally spaced in <i>rgb</i> *	{ Hardcopy Softcopy	{ Printer Display	ISO/IEC TR 24705 ³⁾ ⁴⁾ former DIS 19839-2 ³⁾ ISO/IEC TR 24705 ³⁾ ⁴⁾ former DIS 19839-4 ³⁾ ISO 9241-306:2018 ¹⁾	{ DIN 33866-3 DIN 33872-2,4 DIN 33866-5 DIN 33872-2,4

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2) Analog ISO-test charts are available from 3 sources: DIN 33866-2, JIS X 6933, Richter, 2012, offset print (3600dpi), see <http://standards.iso.org/iso/9241/306/ed-2/ES15.PDF> & <http://standards.iso.org/iso-iec/15775/ed-2/en/>

3) Free download of content of ISO documents for example for new standard projects
ISO/IEC TR 24705:2005 for basis, printer, scanner, display. 4) Withdrawn in 2019.

<http://web.archive.org/web/20060104024850/http://www.jbmia.or.jp/sc28/sc28docs/j28n689.zip>
<http://web.archive.org/web/20060116221659/http://www.jbmia.or.jp/sc28/sc28docs/j28n648.zip>

ISO/IEC 15775:1999/AMD 1:2005 for copier
<http://web.archive.org/web/20060116221659/http://www.jbmia.or.jp/sc28/sc28docs/j28n648.zip>
ISO/IEC TR 19797:2004 for output linearization

<http://web.archive.org/web/20060116212434/http://www.jbmia.or.jp/sc28/sc28docs/j28n687.zip>
ISO/IEC DIS 19839-1 to 4:2004 for basis, printer, scanner, display

<http://web.archive.org/web/20030325005802/http://www.actech.com.br/80/sc28docs/j28n512.pdf>
<http://web.archive.org/web/20030325050829/http://www.actech.com.br/sc28docs/j28n513.pdf>

<http://web.archive.org/web/20030325100829/http://www.actech.com.br/sc28docs/j28n514.pdf>
<http://web.archive.org/web/20030426234527/http://www.actech.com.br/sc28docs/j28n515.pdf>

Definitions for the CIELAB – *cmY** relationship in 19839-1 to 4
<http://web.archive.org/web/20030325200357/http://www.actech.com.br/sc28docs/j28n516.pdf>

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Input and output media and applications					Technical Report (TR) or Standard	Method & Test: Linearization
Input	Output	Input media	Output media	Application		
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analog ²⁾	analog	ISO/IEC-file series equally spaced in <i>rgb</i> * ISO/IEC-test chart (hardcopy) series equally spaced in <i>LCh</i> *	Hardcopy	Copier	ISO/IEC 15775:2022 ²⁾ ed-2: digital files	{ DIN 33866-2 ²⁾ JIS X 6933 ¹⁾ ²⁾
analog ²⁾	digital	ISO/IEC-test chart (hardcopy) series equally spaced in <i>Lch</i> *	File	Scanner	ISO/IEC TR 24705 ³⁾ ⁴⁾ former DIS 19839-3 ³⁾	DIN 33866-4
digital ¹⁾	analog	ISO/IEC-test chart (File) series equally spaced in <i>rgb</i> *	{ Hardcopy Softcopy	{ Printer Display	ISO/IEC TR 24705 ³⁾ ⁴⁾ former DIS 19839-2 ³⁾ ISO/IEC TR 24705 ³⁾ ⁴⁾ former DIS 19839-4 ³⁾ ISO 9241-306:2018 ¹⁾	{ DIN 33866-3 DIN 33872-2,4 DIN 33866-5 DIN 33872-2,4

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2) Analog ISO-test charts are available from 3 sources: DIN 33866-2, JIS X 6933, Richter, 2012, offset print (3600dpi), see <http://standards.iso.org/iso/9241/306/ed-2/ES15.PDF> & <http://standards.iso.org/iso-iec/15775/ed-2/en/>

3) Free download of content of ISO documents for example for new standard projects
ISO/IEC TR 24705:2005 for basis, printer, scanner, display.

<http://web.archive.org/web/20060104024850/http://www.jbmia.or.jp/sc28/sc28docs/j28n689.zip>
ISO/IEC 15775:1999/AMD 1:2005 for copier

<http://web.archive.org/web/20060116221659/http://www.jbmia.or.jp/sc28/sc28docs/j28n648.zip>
ISO/IEC DIS 19839-1 to 4:2004 for basis, printer, scanner, display

<http://web.archive.org/web/20030325005802/http://www.actech.com.br/80/sc28docs/j28n512.pdf>
<http://web.archive.org/web/20030325050829/http://www.actech.com.br/sc28docs/j28n513.pdf>

<http://web.archive.org/web/20030325100829/http://www.actech.com.br/sc28docs/j28n514.pdf>
<http://web.archive.org/web/20030426234527/http://www.actech.com.br/sc28docs/j28n515.pdf>

Definitions for the CIELAB – *cmY** relationship in 19839-1 to 4
<http://web.archive.org/web/20030325200357/http://www.actech.com.br/sc28docs/j28n516.pdf>

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TUB-test chart EE68; Relations of IT standards; basic standards for copiers, printers, scanners, and displays based on CIE colorimetry and ergonomics requirements