INTERNATIONAL TELECOMMUNICATION UNION

ITU-T

TELECOMMUNICATION
STANDARDIZATION SECTOR
OF ITU

T.563
Amendment 3
(04/99)

SERIES T: TERMINALS FOR TELEMATIC SERVICES

Terminal characteristics for Group 4 facsimile apparatus

Amendment 3

ITU-T Recommendation T.563 – Amendment 3

ITU-T T-SERIES RECOMMENDATIONS

TERMINALS FOR TELEMATIC SERVICES

For further details, please refer to ITU-T List of Recommendations.

ITU-T RECOMMENDATION T.563

TERMINAL CHARACTERISTICS FOR GROUP 4 FACSIMILE APPARATUS

AMENDMENT 3

Summary

Amendment 3 introduces higher resolutions of 600 dpi and 1200 dpi to Recommendation T.563.

Source

Amendment 3 to ITU-T Recommendation T.563 was prepared by ITU-T Study Group 8 (1997-2000) and was approved under the WTSC Resolution No. 1 procedure on the 1st of April 1999.

FOREWORD

ITU (International Telecommunication Union) is the United Nations Specialized Agency in the field of telecommunications. The ITU Telecommunication Standardization Sector (ITU-T) is a permanent organ of the ITU. The ITU-T is responsible for studying technical, operating and tariff questions and issuing Recommendations on them with a view to standardizing telecommunications on a worldwide basis.

The World Telecommunication Standardization Conference (WTSC), which meets every four years, establishes the topics for study by the ITU-T Study Groups which, in their turn, produce Recommendations on these topics.

The approval of Recommendations by the Members of the ITU-T is covered by the procedure laid down in WTSC Resolution No. 1.

In some areas of information technology which fall within ITU-T's purview, the necessary standards are prepared on a collaborative basis with ISO and IEC.

NOTE

In this Recommendation the term *recognized operating agency (ROA)* includes any individual, company, corporation or governmental organization that operates a public correspondence service. The terms *Administration, ROA* and *public correspondence* are defined in the *Constitution of the ITU (Geneva, 1992).*

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As of the date of approval of this Recommendation, the ITU had not received notice of intellectual property, protected by patents, which may be required to implement this Recommendation. However, implementors are cautioned that this may not represent the latest information and are therefore strongly urged to consult the TSB patent database.

CONTENTS

Introduction and background

To keep consistency between G3 facsimile service and G4 facsimile service, it is important to apply higher resolutions to G4 facsimile.

This Amendment 3 introduces the higher resolutions of 600 dpi and 1200 dpi.

TERMINAL CHARACTERISTICS FOR GROUP 4 FACSIMILE APPARATUS

AMENDMENT 3

(Geneva, 1999)

1) Table 1

Amend Table 1/T.563 to read as follows:

Table 1/T.563

Resolution (pels/25.4 mm)	Horizontal and vertical tolerance (%)
200 × 200	± 1
240 × 240	± 1
300 × 300	± 1
400 × 400	± 1
600 × 600	± 1
1200 × 1200	± 1

2) Table 2a

Amend Table 2a/T.563 to read as follows:

Table 2a/T.563 – Number of pels and scan line length for different paper sizes

		ISO A4	North American Letter	ISO B4	ISO A3	Japanese Legal	Japanese Letter	North American Legal	North American Ledger
Number of picture elements along a scan line	Resolution (pels/ 25.4 mm)								
	200	1728	1728	2048	2432	2048	1728	1728	2432
	240	2074	2074	2458	2918	2458	2074	2074	2918
	300	2592	2592	3072	3648	3072	2592	2592	3648
	400	3456	3456	4096	4864	4096	3456	3456	4864
	600	5184	5184	6144	7296	6144	5184	5184	7296
	1200	10368	10368	12288	14592	12288	10368	10368	14592
Scan line length (mm) (P)		219.46	219.46	260.10	308.86	260.10	219.46	219.46	308.86
Paper width (mm) (Q)		210	215.9	250	297	257	182	215.9	279.4
P – Q		9.46	3.56	10.10	11.86	3.10	37.46	3.56	29.46

3) Table 2b

Amend Table 2b/T.563 to read as follows:

Table 2b/T.563 – Nominal number of scan lines for different paper sizes

	Resolution (pels/ 25.4 mm)	ISO A4	North American Letter	ISO B4	ISO A3	Japanese Legal	Japanese Letter	North American Legal	North American Ledger
Nominal number of scan lines per page for each pel-transmission density	200	2339	2200	2780	3307	2866	2024	2800	3400
	240	2806	2640	3335	3969	3439	2428	3360	4080
	300	3508	3300	4169	4961	4299	3035	4200	5100
	400	4677	4400	5559	6614	5732	4047	5600	6800
	600	7016	6600	8339	9921	8598	6071	8400	10200
	1200	14031	13200	16677	19843	17197	12142	16800	20400
Nominal paper length (mm)		297	279.4	353	420	364	257	355.6	431.8

4) Table 3

Amend Table 3/T.563 to read as follows:

Table 3/T.563 – Blanking and address reference point for different paper sizes

Paper size	Resolution (pels/25.4 mm)	Pels per line	Pels per each paper size line	Blanking margin (pels)	Reference point	Total line length (mm)
ISO A4				(B)		
	200 × 200	1728	1654	37	(38.1)	219.46
	240 × 240	2074	1984	45	(46.1)	219.46
	300 × 300	2592	2480	56	(57.1)	219.46
	400 × 400	3456	3308	74	(75.1)	219.46
	600 × 600	5184	4960	112	(113.1)	219.46
	1200 × 1200	10368	9922	224	(225.1)	219.46
North American Letter				(A)		
	200 × 200	1728	1700	14	(15.1)	219.46
	240 × 240	2074	2040	17	(18.1)	219.46
	300 × 300	2592	2550	21	(22.1)	219.46
	400 × 400	3456	3400	28	(29.1)	219.46
	600 × 600	5184	5100	42	(43.1)	219.46
	1200 × 1200	10368	10200	84	(85.1)	219.46
ISO B4	200 × 200	2048	1968	40	(41.1)	260.10
	240 × 240	2458	2362	48	(49.1)	260.10
	300 × 300	3072	2952	60	(61.1)	260.10
	400 × 400	4096	3936	80	(81.1)	260.10
	600 × 600	6144	5904	120	(121.1)	260.10
	1200 × 1200	12288	11808	240	(241.1)	260.10
ISO A3	200 × 200	2432	2338	47	(48.1)	308.86
	240 × 240	2918	2806	56	(57.1)	308.86
	300 × 300	3648	3508	70	(71.1)	308.86
	400 × 400	4864	4676	94	(95.1)	308.86
	600 × 600	7296	7016	140	(141.1)	308.86
	1200 × 1200	14592	14032	280	(281.1)	308.86

Table 3/T.563 – Blanking and address reference point for different paper sizes *(concluded)*

Paper size	Resolution (pels/25.4 mm)	Pels per line	Pels per each paper size line	Blanking margin (pels)	Reference point	Total line length (mm)
Japanese Legal	200 × 200	2048	2024	12	(13.1)	260.10
	240 × 240	2458	2428	15	(16.1)	260.10
	300 × 300	3072	3036	18	(19.1)	260.10
	400 × 400	4096	4048	24	(25.1)	260.10
	600 × 600	6144	6072	36	(37.1)	260.10
	1200 × 1200	12288	12144	72	(73.1)	260.10
Japanese Letter	200 × 200	1728	1434	147	(148.1)	219.46
	240 × 240	2074	1720	177	(178.1)	219.46
	300 × 300	2592	2150	221	(222.1)	219.46
	400 × 400	3456	2868	294	(295.1)	219.46
	600 × 600	5184	4300	442	(443.1)	219.46
	1200 × 1200	10368	8600	884	(885.1)	219.46
North American Legal	200 × 200	1728	1700	14	(15.1)	219.46
	240 × 240	2074	2040	17	(18.1)	219.46
	300 × 300	2592	2550	21	(22.1)	219.46
	400 × 400	3456	3400	28	(29.1)	219.46
	600 × 600	5184	5100	42	(43.1)	219.46
	1200 × 1200	10368	10200	84	(85.1)	219.46
North American Ledger	200 × 200	2432	2200	116	(117.1)	308.86
	240 × 240	2918	2640	139	(140.1)	308.86
	300 × 300	3648	3300	174	(175.1)	308.86
	400 × 400	4864	4400	232	(233.1)	308.86
	600 × 600	7296	6600	348	(349.1)	308.86
	1200 × 1200	14592	13200	696	(697.1)	308.86

NOTE – The pels as defined in the blanking margin section (blanking margin A and B are shown in Figure 1) are equivalent to the discarded pels defined in Recommendation T.503.

5)   Subclause B.6.2

Amend "Pel-Transmission-Density" in B.6.2 to read as follows:

Pel-Transmission-Density   :: = INTEGER {   *-- see 8.2/T.417*
    p6 (1), *-- 6 BMU (200 pels/25.4 mm)*
    p5 (2), *-- 5 BMU (240 pels/25.4 mm)*
    p4 (3), *-- 4 BMU (300 pels/25.4 mm)*
    p3 (4), *-- 3 BMU (400 pels/25.4 mm)*
    p2 (5), *-- 2 BMU (600 pels/25.4 mm)*
    p1 (6), *-- 1 BMU (1200 pels/25.4 mm) -- }*

6)   Subclause I.2.2

Amend "Pel-Transmission-Density" in I.2.2 to read as follows:

Pel-Transmission-Density   :: = INTEGER {   *-- see 8.2/T.417*
    p6 (1), *-- 6 BMU (200 pels/25.4 mm)*
    p5 (2), *-- 5 BMU (240 pels/25.4 mm)*
    p4 (3), *-- 4 BMU (300 pels/25.4 mm)*
    p3 (4), *-- 3 BMU (400 pels/25.4 mm)*
    p2 (5), *-- 2 BMU (600 pels/25.4 mm)*
    p1 (6), *-- 1 BMU (1200 pels/25.4 mm) -- }*

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