

HKTA 1106
Issue 02
March 2002

**TECHNICAL STANDARD FOR
PUBLIC TELETEXT SERVICES
IN HONG KONG**



**Telecommunications Authority
Hong Kong**

FOREWORD

1. This specification sets out the technical requirement for Public Teletext Services for terrestrial television broadcast service in Hong Kong.
2. The technical requirements prescribed in this specification are applicable to the I/PAL Color Television Broadcasting System which comply with the latest version of ITU-R Recommendation BT-470: Conventional Television Systems.
3. The allocation of Vertical Blanking Interval Lines (VBIs) is subject to the approval of the Telecommunications Authority (TA).
4. In case of any doubt about the interpretation of this specification the decision of the TA shall be final.
5. The TA may amend any parts of this specification as and when he deems necessary. Amendments or re-issues of this specification may not be distributed automatically to the parties concerned and it will be the responsibility of the parties concerned to ensure that their systems conform to the latest requirements.
6. The HKTA specifications and other documents issued by the TA can be downloaded directly through the OFTA's Internet Home Page at <http://www.ofta.gov.hk>.
7. If further information is required, please contact:

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Office of the Telecommunications Authority
29/F Wu Chung House,
213 Queen's Road East, Wanchai,
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Tel: +852 2961 6662
Fax: +852 2904 7141
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8. The technical specifications issued by the European Telecommunications Standards Institute (ETSI) can be obtained from:

European Telecommunications Standards Institute
F-06921 Sophia Antipolis Cedex,
France
Telephone: +33 04 92 94 42 41
Fax: +33 04 93 95 81 33
Homepage: www.etsi.org

AMENDMENT HISTORY

Issue		Amendment Details		
No.	Date	Item	Para. No.	Descriptions
02	March 02		Whole Doc.	The technical requirements are specified by making reference to the latest edition of ETS 300 706: Enhanced Teletext Specification and ETS 300 708: Television Systems; Data Transmission within Teletext issued by European Telecommunications Standards Institute.
01	March 96			First Edition

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1. INTRODUCTION

- 1.1 The Telecommunications Authority (TA) issued a Technical Standard, HKTA 1106, for Public Teletext Services in Hong Kong in March 1996. This specification is based on the national standard GB/T 14219-93 of the People's Republic of China (Chinese Characters System Teletext [CCST] specification) with suitable modifications to meet the requirements of Hong Kong. The specification of CCST is originated from the Standard B of the ITU-R Recommendations BT-653: Teletext Systems and has been adopted by ITU as one of the international Teletext standards.
- 1.2 In 1997, EBU (European Broadcasting Union) released ENHANCED TELETEXT SPECIFICATION – ETS 300 706 and ETS 300 708, which define the extended data packet in detail in order to enable Teletext services to become more flexible and adaptive to market demand. It is an enhancement of teletext service based on the Standard B of the ITU-R Recommendations BT-653.

2. TECHNICAL REQUIREMENTS OF PUBLIC TELETEXT SERVICE

2.1 Public teletext service to be provided in Hong Kong shall in general comply with the following requirements:-

- (a). ITU-R Recommendation BT- 653: Teletext Systems;
- (b). ETS 300 706: Enhanced Teletext Specification; and
- (c). ETS 300 708: Television Systems; Data Transmission within Teletext

2.2 In addition to the above, it shall comply with the following technical requirements:-

- (a). Character Set

Character Set	Standards	Conformance Requirement
Primary Latin Character Code Set	ETS 300 706	Mandatory
Mosaic Character Set	ETS 300 706	Mandatory
Chinese Character Code Set	GB/T 12345-90	Mandatory
	BIG 5	Optional
	Unicode Standard ISO/IEC 10646	Optional
Chinese Ideogram Set for Teletext Broadcast – Hong Kong Subset	GB/T 15564-95	Mandatory

3. VERTICAL BLANKING INTERVAL LINE

3.1 The allocation of the Vertical Blanking Interval (VBI) Lines for different services in Hong Kong is given in the following table:-

Line	Allocation	Line	Allocation
		318	Ghost Cancellation Reference
6	Public Teletext Service	319	Ghost Cancellation Reference
7	Public Teletext Service	320	Public Teletext Service
8	Public Teletext Service	321	Public Teletext Service
9	Public Teletext Service	322	Public Teletext Service
10	Public Teletext Service	323	Public Teletext Service
11	Public Teletext Service	324	Public Teletext Service
12	Public Teletext Service	325	Public Teletext Service
13	Public Teletext Service	326	Public Teletext Service
14	Data Broadcast Service	327	Data Broadcast Service
15	Subtitling Service	328	Subtitling Service
16	Data Signal	329	Data Signal
17	International Special Signal	330	International Special Signal
18	International Special Signal	331	International Special Signal
19	Data Broadcast Service	332	Data Broadcast Service
20	Data Broadcast Service	333	Data Broadcast Service
21	Reserved for Expansion	334	Reserved for Expansion
22	Noise Measurement	335	Noise Measurement

3.2 Only those VBI lines allocated for public teletext services may be used for teletext services. Approval should be obtained from the Telecommunication Authority for the use of the VBI lines in Hong Kong.

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