

# **Interactive Media Systems**

**Products to support  
CD Bridge Systems**

**Philips Consumer Electronics**



# **PHILIPS**

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CD Bridge Systems**



# PHILIPS

date:1993-08-20

Subject Verifiers.

Dear sir,

Please find appended some information on CD-bridge systems products.

I hope you appreciate this information.  
If you have any questions please contact me.

Kind regards,

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## Products to support CD Bridge systems

To support the

- System description PHOTO-CD
- KARAOKE-CD specification

Philips has developed or can make available for you the following products:

- Standard CD-I application program required on all discs according to these specifications.
- Verifier program. This is a tool to check if the disc conforms to the specification.
- Sample disc according to these formats.

### Standard CD-I application program.

The CD-I application program has been made as standard as possible. This means that the application program needs no adaptations. Just place on the discs the data/files as described in the specification together with this application program is all you have to do.

Additional to that the Karaoke-CD application offers the option to replace the standard selection by a customized selection screen.

### Verifier programs:

To ensure that a disc meets the specification and that the disc plays on all existing and also future hardware verifiers are made available.

Next to a verifier run only a logical check has to be done on the application to release it. This reduces testing time to a minimum.

### Sample discs:

Sample discs are made available to give you a first experience with the application. It allows you to have a first test if your hardware is able to play these discs. These discs are not made in such a way that every function is tested.

#### Appended

- Descriptions of:
  - CD-I application for KARAOKE-CD discs
  - CD-I application for Photo-CD discs
  - Photo CD disc verifier
  - Karaoke CD disc verifier
  - FMV disc verifier
  - CDI\_struct
  - CD-I disc verifier
  - Karaoke-CD sample disc
  - Photo-CD sample disc
- price list

Product name: **CD-I application for KARAOKE-CD discs**

Product description: The CD-I application for KARAOKE-CD discs is a standardized application developed by Philips. Such application program is required for KARAOKE-CD discs.

This CD-I application program features the following functions via an on screen dialogue:

- Play all sequences on the disc
- Select one sequence to play.
- Introsan with selectable scan time.
- Selection of vocals yes/no
- Display of disc name.
- Option to display of song titles
- Autoplay of all sequences.
- Demo mode for continuous play.
- Skip to next song
- Go to previous song
- Restart song
- Stop

These functions operated via an on screen dialogue can be combined direct control buttons on the player or its remote control.

- Play
- Stop
- Pause (resulting in a still image)
- Next
- Previous

This means that the operation of KARAOKE-CD completely matches the users mental model of using music discs.

The standard CD-I application in its basic form can be applied as is. It will dynamically adapt itself to the number of songs.

Simply by adding a graphical images the look of the application can be adapted.

The application is completely flexible to handle any language or character set/font. Warnings from the application to the user are given in English, French and Japanese.

Delivery: The application program, supplied under a license agreement, will be delivered on an Exabyte tape. Together with the software, product installation data is supplied.

Product name: **CD-I application for Photo-CD discs**

Product description: The CD-I application for Photo-CD discs is a standardized application developed by Philips. Such application program is required for Photo-CD discs.

Version 3.1 of this CD-I application features the following functions:

- Choice of Normal view or Teleview (2x)
- Image rotate
- Autoplay with time set
- Plays pre-recorded discs that contain photos, soundtrack and selection menus.
- Favourite Picture Selection for programming multiple play sequences per disc
- Hide/conceal certain photos
- Direct Selection of photos via On Screen Index Print
- Easy operation using On-Screen Program Display
- Context sensitive help function in 8 languages

Compared to the previous version (2.3) of this program the following major changes were implemented:

- Use of pre-recorded discs (PLAYLIST.PCD) is now supported.
- During image build-up the program can be interrupted resulting in less waiting times/ improved user convenience.

This version (3.1) of the CD-I application program is based on System description Photo-CD version 0.97.

From this specification the following functions are not supported:

- ADPCM audio.
- Extended play sequences and/or selections (EXTPLAY.PCS/EPSS).
- Panning
- Zoom factors other than 1x, 2x and 1/2x.
- Picture transitions other than a cut (clear-to-black) and top-to-bottom wipe.

Delivery: The application program, supplied under a license agreement, will be delivered on an Exabyte tape. Together with the software, product installation data is supplied.]

Note: Due to contractual obligations the distribution of this application program is restricted.

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Interactive  
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Typenumber: 22SW1699/20

12NC: 8622 3456 9921

Product name: **Photo CD disc verifier**

Product description: The Photo-CD disc Verifier is a verification tool developed by Philips Interactive media systems to ease the process of releasing discs based on the Photo-CD specification.

The current version of the Photo-CD disc verifier is based on a preliminary version (0.97) of the Photo-CD standard.

The tool performs checks to assure that the disc-lay-out and structure conforms to the standards. Furthermore it checks Photo-CD-CD specifics. A report will be prepared by the tool containing all detected deviations from the standards.

The Photo-CD disc verifier checks:

- Table of Contents (TOC)
- For all sessions the System Area and the volume descriptors
- The Photo-CD File System. The presence of all mandatory files, the absence of files that are not allowed, and the consistency with the TOC are checked.
- Structure of special Photo-CD files.
- All sectors are checked against the general requirements and internal consistency.
- Presence of Post Gap

To be able to run this Photo-CD disc verifier product you need a CD-I player with floppy disc drive, using CD-RTOS 1.1 or later. If you want to check a multisession disc you need a CD-I player prepared for multi-session discs (e.g. Philips CDI605 player). A terminal is to be connected to this CD-I player (e.g. Philips PG6050).

Delivery: The Photo-CD disc verifier is delivered on a 3.5" floppy disc. Together with the software a manual is supplied.

note: Release 2 of the Photo-CD verifier with an additional level of checks is scheduled for sept 1993.

Typenumber: 22SW1698/20

12NC: 8622 3456 9821

Product name: **Karaoke CD disc verifier**

Product description: The Karaoke-CD disc Verifier is a verification tool developed by Philips Interactive media systems to ease the process of releasing discs based on the Karaoke-CD specification.

The tool performs checks to assure that the disc-lay-out and structure conforms to the standards. Furthermore it checks Karaoke-CD specifics. A report will be prepared by the tool containing all detected deviations from the standards.

The Karaoke-CD disc verifier checks:

- Table of Contents (TOC)
- The System Area and the volume descriptor
- The Karaoke-CD File System. The presence of all mandatory files, the absence of files that are not allowed, and the consistency with the TOC are checked.
- Structure of special Karaoke CD files.
- The Full Motion sequences on the disc.
- All sectors are checked against the general requirements and internal consistency.
- Presence of Post Gap

To be able to run this Karaoke-CD disc verifier product you need a CD-I player with floppy disc drive, using CD-RTOS 1.1 or later (e.g. Philips CDI605 player). A terminal is to be connected to this CD-I player (e.g. Philips PG6050).

Delivery: The Karaoke-CD disc verifier is delivered on a 3.5" floppy disc. Together with the software a manual is supplied.



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Interactive  
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Typenumber: 22SW1697/00

12NC: 8622 3456 9801

Product name: **CDI\_struct**

Product description: CD\_struct is a verification tool developed by Philips Interactive media systems to ease the process of releasing discs based on the CD-I specification.

The tool performs checks to assure that the disc-lay-out and structure conforms to the standards. A report will be prepared by the tool containing all detected deviations from the standards.

CDI\_struct checks:

- LEAD-IN area
- Table of Contents (TOC)
- 1st message area
- Disc label area
- 2nd message area
- CD-I data area
- 3rd message area

To be able to run this CDI\_struct product you need a CD-I player with floppy disc drive, using CD-RTOS 1.1 or later (e.g. Philips CDI605 player). A terminal is to be connected to this CD-I player (e.g. Philips PG6050).

Delivery: The CDI\_Struct is delivered on a 3.5" floppy disc. Together with the software a manual is supplied.

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Interactive  
Media  
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Typenumber: t.b.s

12NC: t.b.s

Product name: **CD-I disc Verifier**

Product description: The CD-I disc verifier is a verification tool developed by Philips Interactive Media Systems to ease the process of releasing discs based on the CD-i Full Functional Specification (Green Book), including the Full Motion Extension.

The tool performs checks to assure that the disc lay-out and structure conform to the standards.

This verifier checks:

- Table of Contents of a disc (TOC)
- The Sytem Area (1st Message Area)
- The File System, including the Disc Label
- The leading Message Area
- The CD-i Data Area. All sectors are checked for internal consistency. FMV streams are checked.
- The concluding Message Area
- The LeadOut Area (if DATA encoded)

The CD-I disc verifier is capable of handling CD-I READY discs. These disc are verified against the 'Application Note CD-I READY DISC' Philips Sony, October 1991.

The CD-I disc verifier can optionally perform some of PIMA's Final Production Delivery (FPD) tests.

To be able to run this verifier product you need a CD-I player with floppy disc drive, using CD-RTOS 1.1 or later (e.g. Philips CDI605 player). A terminal is to be connected to this CD-I player (e.g. Philips PG6050).

Delivery: The CD-I disc verifier is delivered on a 3.5" floppy disc. Together with the software a manual is supplied. Availability oct 1993.

note: The CD-I disc verifier is a complete redesign of CDI\_struct.

Typenumber: 22SW1696/00

12NC: 8622 3456 9601

Product name: **FMV disc verifier**

Product description: FMV verifier is a verification tool developed by Philips Interactive media systems to ease the process of releasing discs containing Full Motion Video data.

The tool performs checks on CD-I or CD\_ROM-XA discs, or a specified part of a disc, for compliance with the MPEG1 standard (ISO11172) and the Full Motion Extension of the CD-I Full functional Specification.

- A whole disc can be verified or only a specified file
- Optionally it checks for compliance with the Karaoke\_CD specification.
- Optionally warnings are given for inconsistent items.
- Optionally a dump(disassembly) of an MPEG stream, or part of a stream can be generated.

To be able to run this FMV disc verifier product you need a CD-I player with floppy disc drive, using CD-RTOS 1.1 or later (e.g. Philips CDI605 player). A terminal is to be connected to this CD-I player (e.g. Philips PG6050).

Delivery: The FMV disc verifier is delivered on a 3.5" floppy disc. Together with the software a manual is supplied.

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Product name: **Photo-CD sample disc**

Product description: A set of Photo-CD discs which can be used for initial testing of your system.

The set is proposed to contain the following discs:

- disc (non PSS single session) with CD-I application version 2.3  
Description: Photo-CD Master disk using Kodak PIW Version 3.0.1 software with CD-I application V2.3. Single session with 20 images in the session.  
Status: The PIW software release number 3.0.1. is in the header of the image pack. 3.0.1 and 3.0 are the only software releases that should be out in the field as per mid 1993. Photofinishers were required to upgrade to those releases late 1992/early in 1993. The difference between 3.0 and 3.0.1 is related to the PIW configurations. It had no influence on the disc. Please note that the CD-I application version is 2.3 is supplied with this Kodak release.  
Verifier: If attached the verifier output is from an almost identical disc. Due to the production process the identification numbers can not be the same.
- disc (non PSS multi session) with CD-I application version 3.1  
Description: Photo-CD Master disk using Kodak PIW Version 4.1/4.2 software with CD-I application 3.1 Multi session with 15 images in the first session and 5 images in the second session.  
Status: From aug 1993 onwards Kodak PIW versions 4.1 and 4.2 are being released which contain the CD-I application 3.1. Version 4.1 goes to "consumer" Photo Cd labs while 4.2 is headed to "professional" Photo CD labs. Both are basically the same software with some features "turned off" for 4.1.  
Verifier: If attached the verifier output is from an almost identical disc. Due to the production process the identification numbers can not be the same.
- pre-recorded disc (PSS) with CD-I application version 3.1.  
As per aug 1 no suitable disc is available.

Delivery: If requested, the discs are supplied with a verifier output.

TENTATIVE

Product name: Karaoke-CD sample disc

Product description: A Karaoke-CD discs which can be used for initial testing of your system. The disc is not specially developped as a testdisc.

The discs contains 12 sequences:

Kaori Kousai medly	NTSC STEREO
Breakwater	NTSC STEREO
Night Club Tokyo	NTSC STEREO
Wonderfull Meeting	NTSC STEREO
Go Go Huma	NTSC STEREO
Yesterday	NTSC STEREO
Quien Sera(Song in Latin)	NTSC STEREO
Ailran (Korean Folk song)	NTSC STEREO
Oh Sake	NTSC DUAL
Yesterday	NTSC DUAL
Wonderfull Meeting	NTSC JOINT STEREO
It's wrong to being careless	PAL STEREO

Note 1: Most songs are of Japanese origin. The Japanese name is in above being translated

Note 2: The disc is supplied by/Order at:  
JVC (VICTOR COMPANY OF JAPAN LTD.)  
CORPORATE TECHNOLOGY PLANNING OFFICE  
F.a.o. YOSHI HONJO  
58-7 SHINMEI-CHO, YOKOSUKA-SHI  
KANAGAWA, 239 JAPAN  
TEL; 0468-36-4274 FAX; 0468-36-0420

THE PRICE OF THE DISC IS 30,000 YEN EACH EX JVC PLANT. THIS IS EQUIVALENT TO APPROX US\$272.00 EACH

## Price list

### CD Bridge systems products

- KARAOKE-CD application  
(license for unlimited amount of discs under your own label)  
US\$10,000
- PHOTO-CD application  
Upon request
- PHOTO-CD disc verifier  
first copy US\$3,500  
additional copies/updates US\$350
- KARAOKE-CD disc verifier  
first copy US\$3,500  
additional copies/updates US\$350
- FMV disc verifier  
first copy US\$3,500  
additional copies/updates US\$350
- CDI\_struct  
first copy US\$3,500  
additional copies/updates US\$350  
CDI\_struct will be replaced 3rd quarter 1993 by a CD-I disc verifier.
- Karaoke-CD sample disc  
Price and availability upon request
- Photo-CD sample disc  
Price for each disc US\$100  
Please indicate desired version

Note (1): These prices are based on a standard delivery without any support. Support can be given at cost.

Note (2): Philips is always prepared to develop derivatives of above products at cost.