



Philips Professional CD-i player

A professional platform based on state-of-the-art CD-i technology. With its built-in Digital Video Decoder, floppy disk drive, two RS 232 ports and one parallel port, the CDI 615 is a powerful tool for P.O.S., P.O.L., training and educational applications. An optional extension further enhances the player's functionality.

- Plays CD-i, CD-DA, CD+G, Digital Video, Video CD and Photo CD discs
- Built-in Digital Video Decoder (MPEG1) and 1 MB additional memory
- Works with all 16:9 and 4:3 TV receivers and Stereo systems
- Easy operation using on-screen program display
- 3.5" Floppy Disc Drive for auxiliary support (PC compatible, HD/DD)
- RGB, Y/C, CVBS, RF video outputs*
- Two CD-i Controller ports
- Two RS 232 ports and one parallel port (PC compatible)
- Connection for PC-keyboard
- Complete with FSR infra-red remote control
- Suitable for 19" rack mounting (optional mounting brackets)

*depending on version

COMPACT
disc
Interactive

COMPACT
disc
DIGITAL AUDIO

COMPACT
disc
DIGITAL VIDEO

COMPACT
disc
PHOTO

COMPACT
disc
DIGITAL AUDIO
GRAPHICS

Let's make things better.

CD-i



PHILIPS

An advanced Philips CD-i player for infor

More and more companies and organizations around the world are discovering that CD-i is the practical and cost-effective multimedia system for addressing their information storage, distribution and presentation, as well as their marketing and training needs, in the most up-to-date way.



The CD-i 615 system

They have found that CD-i systems conform to a worldwide standard that ensures compatibility. That they are simple to set up and easy to use. That the unique multimedia programs with Digital Video present clear, considered messages in a bright, challenging style. That they can save space in salesrooms and exhibition stands, as well as time and effort for salespeople. And that they can take training out of the classroom into the working environment. Perhaps you, too, can learn from their experience.

CD-i 615 - the natural choice for advanced applications

Simple applications in these fields can often be handled by regular consumer CD-i players working in base case with a TV set and a simple pointing device. But CD-i is capable of much more advanced applications. Applications calling for facilities such as on-the-spot updating of programs or user data, authorized access, configurability or networking. Multimedia applications, in fact, that are hardly possible on other systems. The CD-i 615 is the natural choice for all such applications. When fitted with an optional extension, this player's functionality is further enhanced.

Point-of-information and point-of-sale

CD-i programs can be set up and left to look after the clients in these applications. A short sequence of screens can be designed to continuously draw attention, and all the interested client has to do to get more information is follow a few simple steps.

Presentations and catalogues

CD-i presentations are multimedia in a way no other system can touch. Motion video, graphics, text screens, stereo sound, with fast and interactive access.

Education and training

Learning is not tied to any particular place or time. Pupils can run their programs whenever they have the opportunity - and always make a note of questions they may have for the teacher. On the other hand, it is also a simple matter to "network" the classroom, so that the teacher's master player controls the pupils' slave players, determining the work they do.

CD-i

A substantial "off-the-shelf" disc catalogue

The CDI615 runs all CD-i discs produced in accordance with the world-wide CD-i standard, including the Digital Video extension. That includes discs from the CD-i professional catalogue - currently running at over 400 titles, as well as titles tailor-made for individual applications. In line with the CD-i concept, it is also fully compatible for playing Video CD, CD-i Digital Video, CD-DA with or without CD+G, CD-DA tracks on CD-i discs, Photo CDs and Bridge discs (CD-Rom XA discs with a CD-i application program).

The player shell

A resident "Player Shell", in conjunction with the infra-red remote control supplied, makes system setting-up procedures surprisingly easy. High technical skills are not required. With "point and select" actions, all the resident functions are controlled so easily that the actions become instinctive. This is because the specially-designed player shell program presents a coherent series of screen displays that offer a complete and convenient choice of play functions in a visually appealing, highly dynamic and

easy-to-follow fashion. Running a CD-i disc is a simple matter of inserting the disc and then selecting options from the screen according to choice.

Customizing: the options screens

With the player shell options screens, you can set up many functions to suit your own requirements. From the Options menu, you have four choices:

- General Options settings include Autoplay on/off, choice of four volume levels, 4:3 (regular) or 16:9 (wide) TV screen aspect ratio, and player standby enable/disable.
- Time and Date Options let you set up actual time on a 12 or 24 hour clock, and dates in day-month-year or month-day-year format, and choose whether to display them on play control screens.
- The Tools screens display the contents of the player's NVRAM memory or the floppy disc. Also indicated is the percentage of the total memory space occupied, to allow deletion of old files to make room for new ones.

Files in NVRAM or floppy can be sorted by name, size or date, and deleted. Files can be copied from NVRAM to floppy and vice-versa, and downloaded from floppy to the NVRAMs of other CDI615 players in a "network". Floppies can also be formatted via the Tools screens.

- Audio Options settings are also available: Auto Shuffle, Auto FTS, 5, 10 or 20 seconds scan time and Repeat of Disc/FTS or Track.

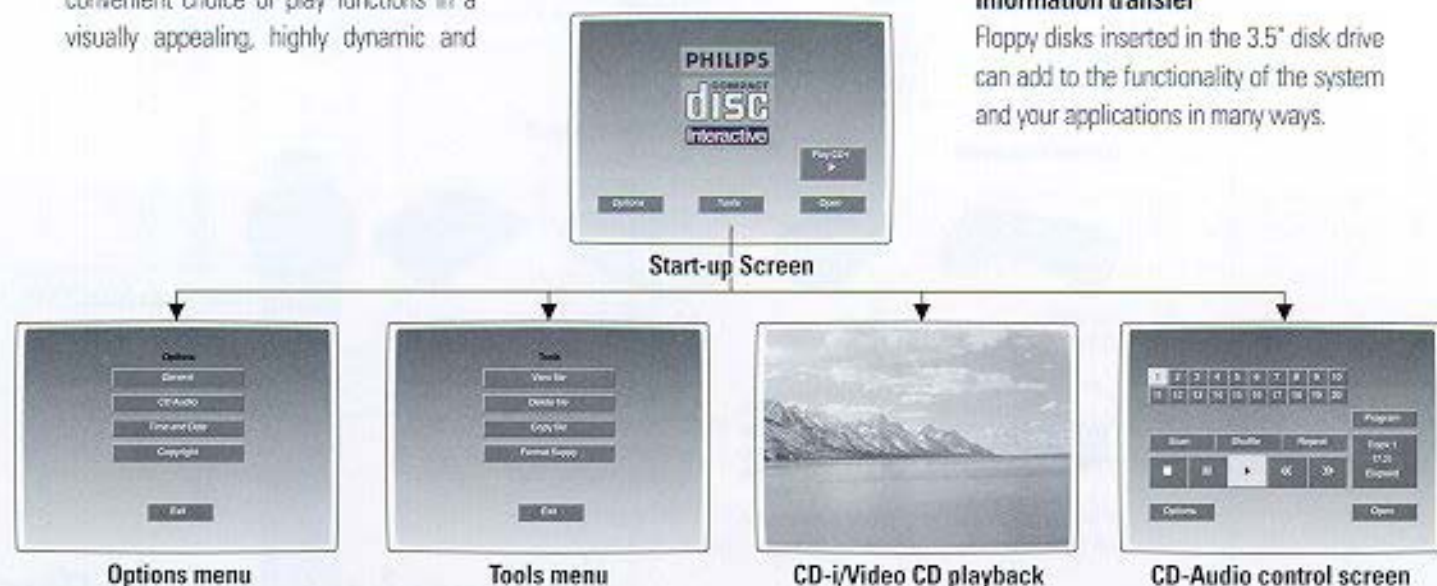
Once the optional settings have been made, and stored in the non-volatile memory, the player shell automatically adopts them when starting up.

NVRAM memory

The non-volatile random access memory (NVRAM) is backed up by a battery with a life of at least ten years, and has a capacity of 32 Kbytes. It provides space for player shell settings, records, scores and bookmarks of CD-i titles, player shell settings as well as supplementary information downloaded from floppy disc.

Information transfer

Floppy disks inserted in the 3.5" disk drive can add to the functionality of the system and your applications in many ways.



External programs or data stored on a floppy can be retrieved to update or modify existing applications. Typical cases include revised product prices, and up-to-date information concerning product availability.

Floppies can be used as a memory for personal or statistical data, such as tasks accomplished, "Bookmarks", scores in progress tests, or customer calls per product, as well as for downloading data from the CD-i disc. Applications often require controlled access to sensitive data; for example by managerial staff only, by tutors rather than pupils, or by employees rather than the general public. Access control authorizations, at various levels if needed, can be issued on personal floppy disks. All the authorized user has to do to gain access is insert the floppy.

System extensions and "networking" applications can be configured with complete ease by staff with no special training. Simply by inserting the appropriate floppy and calling up the "Copy to..." function in the player shell. Specific printers, other peripherals or communication connections can be configured fully automatically.

Basic control and configuration

In addition to the pointing device supplied, the CDi 615 also accepts wired inputs from standard CD-i pointing devices such as the Gamepad, Trackerball, Graphic tablets and Touch screens, as well as CD-i keyboards. A standard PC keyboard (AT or higher) can be connected to the rear panel. Up to two RS 232 peripheral devices can be connected and

one other serial device. There is also a parallel port, which can be used, for example, for printer connection.

Through the infra-red sensor on the front panel, the system accepts inputs from the FSR infra-red remote control.

When stereo sound is important, e.g. for big-screen presentations, the stereo audio output can be connected directly to a stereo amplifier and loudspeakers.

A headphone socket with level control offers personal listening, which training applications often require.

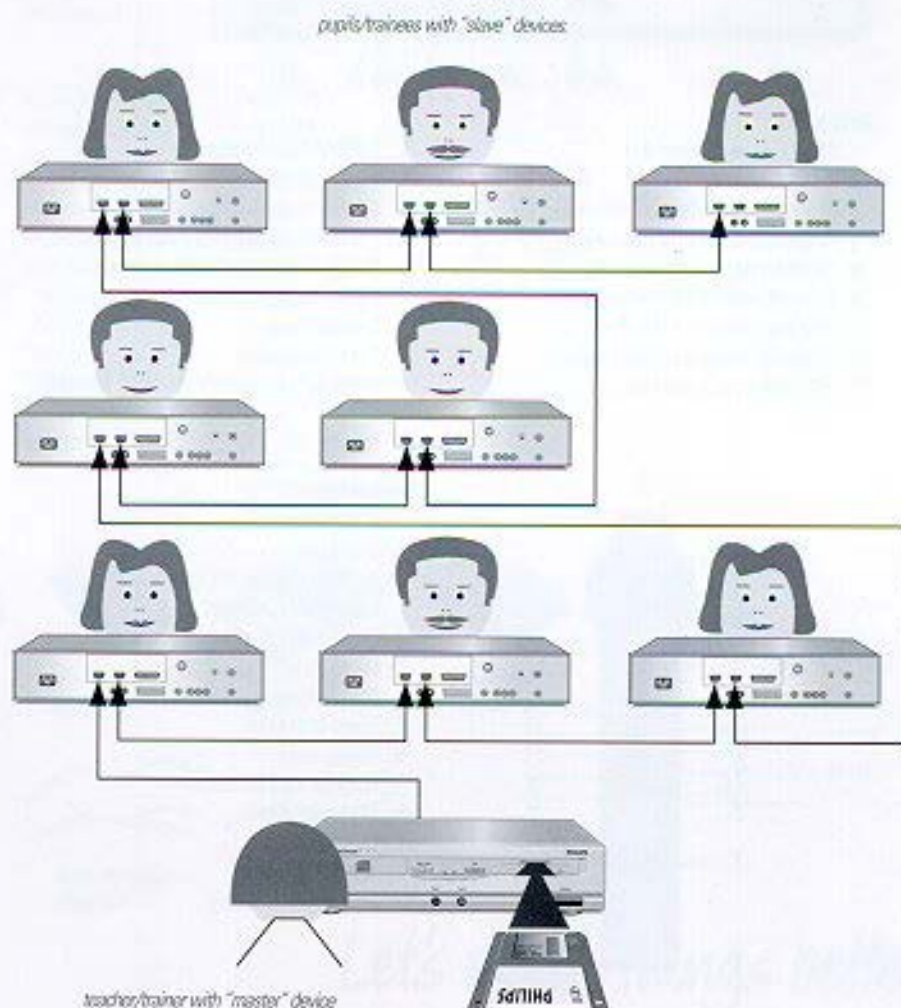
Extension Facilities

An extension slot provides opportunities for upgrading of system functionality and establishment of communications facilities.

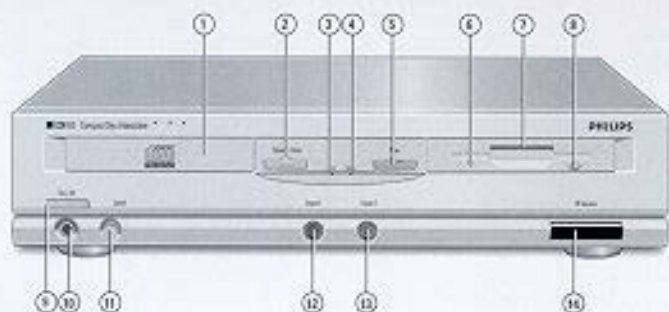
As functional requirements differ from one application to another, it is of no use to offer a "standard" optional extension. Instead, a tailor-made extension, on the basis of a flexible and optimal specification, can be scheduled for each project.

Groupworking set-up

The example below shows a typical set-up in which the "master" device can control e.g. the level at which a particular application program (CD-i title) on all "slave" devices is to start. The trainer/teacher simply inserts his programmed floppy and by selecting "Copy to External" in one of the Tools screens, the information is downloaded into the NVRAM's of all players.

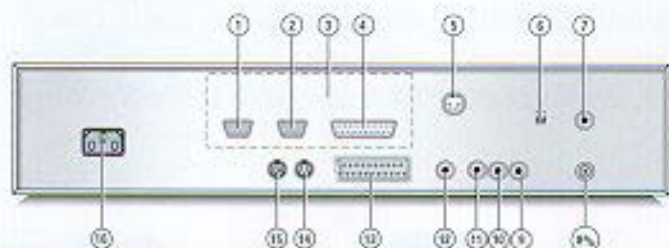


Controls and connections CDI 615



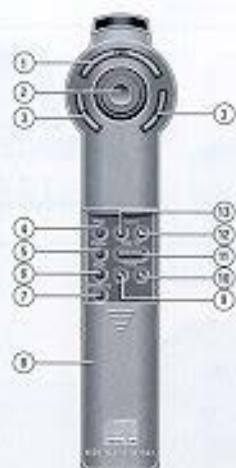
Front panel

- | | |
|---------------------------------|---------------------------------------------------|
| 1. Disc loading tray | 8. FDD eject button |
| 2. Open/Close button | 9. On/off button |
| 3. 'CD-i' indicator (green) | 10. Headphone socket |
| 4. Stand-by indicator (red) | 11. Headphone volume control |
| 5. Play button | 12. Pointing device Input 1 |
| 6. 'FDD-busy' indicator (green) | 13. Pointing device Input 2 |
| 7. Floppy Disc Drive 3.5" | 14. IR-receiver eye with 'Active' indicator (red) |



Rear panel

- | | |
|---------------------------------------|---------------------------------------------------|
| 1. RS 232 serial port (port #1) | 9. CVBS/Video connector |
| 2. RS 232 serial port (port #2) | 10. Audio L-channel connector |
| 3. Cover plate for extension slot | 11. Audio R-channel connector |
| 4. Centronics parallel port (port #3) | 12. Y/C (S-Video) connector (USA only) |
| 5. AT-keyboard connector (port #4) | 13. SCART/Euroconnector (Europe only) |
| 6. Channel selector (USA only) | 14. Digital output connector |
| 7. RF-input connector (USA only) | 15. Serial I/O port |
| 8a. RF-output connector (USA only) | 16. Power connector |
| 8b. +5V/Audio out (Europe only)* | *for connection of optional external RF Modulator |



Remote control

- | |
|-----------------------------------------------------------|
| 1. Action button #2 |
| 2. Thumbpad |
| 3. Action buttons #1 (for right or left handed operation) |
| 4. Play button |
| 5. Pause button |
| 6. Stop button |
| 7. Stand-by button |
| 8. Sliding cover |
| 9. Previous track button |
| 10. Next track button |
| 11. CD-i/TV button |
| 12. Volume up button |
| 13. Volume down button |

TECHNICAL SPECIFICATIONS CDI 615

PLAY-BACK SYSTEM

CD-i
CD-DA
Video CD
Photo CD
CD Bridge
CD + Graphics

OPTICAL READ-OUT SYSTEM

Laser type	Semiconductor AlGaAs
Numerical aperture	0.466
Wavelength	780 nm

AUDIO PERFORMANCE

Frequency response	20 Hz-20 kHz
Amplitude linearity (20 Hz-20kHz)	+0.2 dB
Signal-to-noise (1kHz)	97 dB
Dynamic range (1kHz)	94 dB
Channel separation (1kHz)	106 dB
THD+Noise (1kHz)	-90 dB

TV STANDARD

	EUROPE (PAL)	USA (NTSC)
Number of lines	625	525
Vertical resolution	280/560	240/480
Horizontal resolution	384/768	384/768

REMOTE CONTROL

System	RDS infra-red
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CONNECTIONS

Audio L-R outputs (inch)	2 Vrms into 10 kOhm
Digital output (inch) ¹	0.5 Vpp into 75 Ohm
Headphone output	6.3 mm jack, 8-2000 Ohm, 30 mW @ 32 Ohm
SCART ²	Euroconnector
Y/C (S-Video) output ³	Mini DIN, 4-p
Video (CVBS) output (inch)	1 Vpp into 75 Ohm
Antenna input ¹ (F-type)	75 Ohm
RF output ¹ (F-type)	75 Ohm
DC output (Mini-Jack) ²	+5V, 50 mA
Input 1, 2	Mini DIN, 8p
Serial I/O	Mini DIN, 8p

Optional Accessories



GamePad
22ER9021



Mouse
22ER9011



Roller Controller
22ER9012



Trackerball
22ER9013



RF Modulator
22ER9071



Audio Stereo Splitter
22ER9009

Serial ports (port #1, #2)	RS232, DB9 male
Parallel port (port #3)	Centronics, DB25 female
Keyboard port (port #4)	DIN, 5p

POWER SUPPLY (UNIVERSAL)

Voltage	100-240V
Frequency	50-60 Hz
Power consumption	15W approx.

CABINET

Material	PS front panel, metal case
Dimensions (w x h x d)	435 x 106 x 280 mm (17 ¹ / ₈ x 4 ¹ / ₈ x 11 ¹ / ₈)
Weight	4.2 kg approx.

MEMORY

32 kB NVRAM
2 Mbit RAM (system)
1.44 MB Floppy

PACKAGE CONTENTS

	EUROPE	USA
CD-i player	•	•
AC cable	•	•
Remote control	•	•
Manual	•	•
Technical documentation	•	•
Euroconnector cable	•	
Y/C cable		•
RF cable		•
Audio cable	•	•
Video cable		•

OPTIONAL ACCESSORIES

Gamepad	22ER9021
Mouse	22ER9011
Roller Controller	22ER9012
Trackerball	22ER9013
Controller extension cable	SBC1139
RF Modulator ¹	22ER9071
Audio Stereo Splitter	22ER9009

¹ For CD-DA only
² Europe version only
³ USA version only

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