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1 Introduction

This manual is intended for the 'Trust Televiewer 1610 RC'.

The device allows you to switch the monitor screen of your computer to a TV screen in a simple manner. The Televiewer operates independently and thus does not depend on any operating system. The Televiewer is suitable for IBM compatible PCs and Mac systems.

The Televiewer 1610 RC supports resolutions up to 1600x1200 in true colours. The composite video and S-VHS connections, together with the SCART cable and sound cable provided, allow you to connect your computer image and sound to virtually any TV set. This makes the Televiewer ideally suited for playing games and viewing DVD films on large screen television. The Televiewer is also exceptionally well suited for presentation purposes.

2 Safety

Carefully read the following instructions before use:

1. Do not use this device in a damp environment, such as a bathroom, damp basement, swimming pool, etc.
2. Do not repair this device yourself. Only have the device repaired by qualified personnel.
3. Position the device so that the cables cannot be damaged.

3 Installation

Follow the instructions given below to install the Trust Televiewer 1610 RC (also see figure 1):

1. Turn off your computer, monitor and TV set.
2. Disconnect the "VGA" plug (B) from your monitor.
3. Connect the "VGA" plug (A) of the "VGA" cable to the "VGA" connection on your computer.
4. Connect the daisychain VGA link (B) to the VGA connecting plug on your monitor.

Note: *If you connect the Televiewer 1610 RC to a Mac, you will need to use VGA converter plugs for the VGA connection on your computer and monitor.*

5. Connect the other end of the VGA cable (C) to the Televiewer.
6. Connect the power plug (D) of the PS/2 or USB power cable to the connection on the rear of the Televiewer 1610 RC.
7. Connect the other end (E) of the power cable to your computer. You have two options:
 - **PS/2** connection (smaller 6-pin plug) for newer ATX systems. Connect this between your keyboard (F) and the computer.

- **USB** connection for systems with a USB port. This can be connected to a PC or a Mac.
- Note:** *You could also use a standard 5VDC / 500mA supply adapter (not supplied). See the product label on the bottom of the Televiewer for the specifications of the feeder polarity.*
8. Connect one of the video cables of the Televiewer to your TV set. You have three options:
 - **S-VHS** (black 4-pin plug): Connect the plug (I) of the S-VHS cable to the 'S-VIDEO OUT' connection on the Televiewer for the best image quality. Connect the other end (J) to your TV.
 - **Composite video** (yellow cinch plug): Connect the plug (G) of the composite video cable to the 'VIDEO OUT' connection on the Televiewer. Connect the other end (H) to your TV.
 - **SCART**: If you have a SCART connection, use the "RGB to SCART " cable provided. Connect the RGB plug (K) to the 'RGB OUT' connection on the Televiewer. Connect the SCART plug (L) to your TV.
 9. Connect the 3.5mm audio jack (M) of the provided sound cable to the speaker output of your sound card, or to another audio source such as the headset of your DVD player.
 10. Connect the white and red audio cinch plugs (N) on the other end of the sound cable to your TV or VCR. You may connect it via the sound connections (O) on the SCART cable provided.
 11. Switch on your computer, monitor and TV set.
 12. Set the right video channel on your TV.

4 Using the Televiewer

After connecting the Televiewer 1610 RC to your computer and TV, you can set the image resolution to your liking. The Televiewer supports resolutions up to 1600x1200. See the specifications in Chapter 6 for all the resolution options supported by the Televiewer.

Note: *For optimum image quality we recommend not to exceed a 1024x768 resolution. With higher resolutions, signal loss in the VGA cable may result in a slightly less sharp monitor image.*

Note: *When converting to a different resolution, the TV image may flicker for a few seconds. The Televiewer needs a short while to adjust.*

The Televiewer 1610 RC has a 'Power saving' function and will turn itself off if there is no VGA signal via the input. Thus, power consumption of the Televiewer is reduced to a minimum when your computer is not switched on. The LED (F) goes out when the Televiewer is turned off (see figure 2).

See figure 2 and table below for the description of the functions of the different buttons on the Televiewer:



	Function	Description
A	DC IN	Connection for the PS/2 or USB power cable, or for an optional standard adapter 5VDC / 500mA (not provided).
B	VIDEO OUT	Connection for the composite video cable.
C	S-VIDEO OUT	Connection for the S-VHS video cable.
D	RGB OUT	Connection for the 'RGB to SCART' cable.
E	RGB-CVBS switch	Switch for selecting the active video output: RGB: the 'RGB OUT' video output is active. CVBS: the 'S-VIDEO OUT' (S-VHS) and the 'VIDEO OUT' (composite) video outputs are active.
F	LED	LED is lit when the Televiewer is switched on.
G	SCAN CNVTR	Connection for the VGA cable.
H	IR receiver	Infrared receiver for the remote control.
I	Position buttons	Buttons for adjusting the position of the TV image (up, down, left, right).
J	POWER	Button for turning the Televiewer on and off.
K	PAL/NTSC	Button for switching between the various TV video standards. In Europe, PAL is the most widely used video standard.
L	MENU	Button for switching between the various OSD (On Screen Display) menu options.
M	SAVE	Button for saving the current image settings.
N	FINE TUNE	Button for fine tuning the TV image.
O	ZOOM	Button for zooming in and out of the TV image.

See the table below for the options available with the Televiewer's OSD. The OSD is activated using the button (L) on the Televiewer and the button (G) on the remote control (see figures 2 and 3):

Function	Description
H-SIZE	Adjusts the horizontal size of the TV image. Alter the size in combination with the position buttons (left and right) on the Televiewer (I) or the remote control (B, H).
V-SIZE	Adjusts the vertical size of the TV image. Alter the size in combination with the position buttons (left and right) on the Televiewer (I) or the remote control (C, J).
BRIGHTNESS	Adjusts the brightness of the TV image.
CONTRAST	Adjusts the contrast of the TV image.
HUE	Adjusts the colour of the TV image.
SATURATION	Adjusts the number of colours of the TV image (the minimum settings produce a B/W image).
FLICKER	Filter for stopping the TV image from flickering.

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Function	Description
OSD COLOR	Adjusts the colour of the OSD menu.

See figure 3 and the table below for the description of the function of the various buttons on the Televiewer's remote control.

	Function	Description
A	POWER	Button for turning the Televiewer on and off.
B	RIGHT	Button for adjusting the position of the TV image (right).
C	DOWN	Button for adjusting the position of the TV image (down).
D	RESET	Resets the previous settings.
E	FREEZE	Freezes the current TV image, for example, to look at film fragments.
F	ZOOM	Button for zooming in and out of the TV image.
G	MENU	Button for switching between the various OSD (On Screen Display) menu options.
H	LEFT	Button for adjusting the position of the TV image (left).
I	VIDEO STANDARD	Button for switching between the various TV video standards. In Europe, PAL is the most widely used video standard.
J	UP	Button for adjusting the position of the TV image (up).

5 Troubleshooting

Problem	Cause	Possible solution
No picture.	Cables not connected properly.	Check if the Televiewer has been connected properly. See chapter 3 for the options.
	TV not set properly.	Check if the TV has the correct video setting.
No image via Notebook.	External VGA is not switched on.	Switch on the external VGA in on the Notebook.
TV image is not good.	Resolution and refresh rate of computer too high.	The Televiewer supports a resolution up to 1600x1200 with 60Hz maximum. For optimum image quality we recommend not to exceed 1024x768 at 75Hz.
	Image settings of TV set are not correct.	Set brightness and contrast of the TV set.
	PAL / NTSC settings of the TV set are not correct.	If your TV set supports various standards, set your TV set on PAL standard. Consult the manual of your TV set.
VGA connection of Televiewer cannot be connected to a Mac system.	Mac systems use a different type of connection for VGA than IBM compatible PCs.	Use VGA converter plugs for the VGA connection (not provided).
PS/2 plug for power supply connection does not fit.	Because of system box or because a Mac system is used, the plugs do not fit.	Use the USB power cable to connect the Televiewer to a free USB port.
	No free keyboard connection or USB port in the system.	Use an external 5 VDC / 500mA supply adapter for the Televiewer (not provided). See product label at bottom of Televiewer for the polarity of the connecting plug.
No or poor image after cable extension.	Composite or S-VHS extension cable is too long or of poor quality.	Do not use Composite or S-VHS extension cable longer than 5 meters.
	VGA extension cable used.	The VGA connection of the Televiewer MUST NEVER BE EXTENDED.
The problem is not listed here.	The latest FAQ update is available on the Internet.	Go to www.trust.com/12737 for FAQ and other product information.


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Register your product via www.trust.com so that you are able to receive optimal guarantee and service support such as up-to-date FAQ and the latest drivers. You will be automatically informed of developments to your product and other Trust products. You will also have the chance of winning some spectacular prizes.

If you still have problems after trying these solutions, please contact one of the Trust Customer Care Centers. You can find more information at the back of this instruction manual. Please have the following information available:

- The item number. This is 12737.
- Hardware used.
- Monitor adapter: resolution and number of colours.
- Type of TV set: connection used, video standard (PAL, NTSC, SECAM).
- A good description of what does not work.
- A good description of when the problem occurs.

6 Specifications

Inputs	VGA
Outputs	Composite, S-VHS, SCART
Video standard	PAL, PAL-N, PAL-M, PAL-combination-N, NTSC, NTSC-EIAJ
Resolution support for PC (VGA monitor)	720x400 for 70 Hz
	640x480 for 60 to 120 Hz
	800x600 for 56 to 100 Hz
	1024x768 for 60 to 75 Hz
	1152x864 for 60 to 75 Hz
	1280x960 for 60 Hz
	1280x1024 for 60 Hz
Resolution support for MAC (G4, G4 Cubic, G3)	640x480 for 60 to 120 Hz
	832x624 for 75 Hz
	800x600 for 56 to 100 Hz
	1024x768 for 60 to 75 Hz
	1152x864 for 60 to 70 Hz
Resolution support for Apple iMac and iMAC DV	640x480 for 117 Hz
	800x600 for 95 Hz
	1024x768 for 75 Hz
Number of colours	24 bit, true colours
Power supply	5V, 500mA


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