Accessories

The one to five SCART adaptor is recommened if prolonged testing of SCART cables is intended:

DECLARATION OF CONFORMITY

Manufacturers Name: CableJoG Ltd.
Address: 18 Browmere Drive, Croft,
Warrington. WA3 7HT.

Declare that;

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Product: **AVjog**

conforms to the following Product Specification:

BS EN 61000-6-3 for Generated Emissions
BS EN 61000-6-1 for Immunity to Radiated Electromagnetic Fields
Immunity to Fast Transient Bursts - Signal Lines
Immunity to Conducted Field - Signal Lines
Immunity to Electrostatic Discharge

The product herewith complies with the requirement of the EMC Directive 89/336/EC.

RoHS+WEEE

AVjog(TM)
Operations Manual

Introduction

The AVjog(TM) Cable Tester is a versatile unit that allows the user to either identify the connections within a variety of Professional Audio, Video & digital Network cables. Cables fitted with any of the following connectors may be checked:

- DVI
- HDMI
- SCART
- SVGA 15w HD 'd' type
- RJ45
- S-Video MINI DIN 4 pole
- USB A & B

- 3 pole XLR
- 3.5mm jack stereo or mono
- RCA Phono RGB & RWY
- BNC RGB Horiz & Vert
- F Type
- COAX

The tester comes in two parts. Part one the Local end is the main control unit and part two is a diode loop back unit or Remote unit. The tester can test cables or AV panel installations for the following conditions:

- Continuity
- Short Circuits (end to end & between unconnected pins)
- Open Circuits (end to end & between unconnected pins)

Please read the following instructions carefully before using the AVjog(TM) Cable Tester.

Warning:

The Cables or AV panel installations to be tested must be fully disconnected from any other equipment or electrical source. Failure to do so could result in electrical shock and permanent damage to the AVjog Cable Tester, for which the manufacturer and suppliers can accept no liability.

Getting started

The AVjog™) Cable Tester comes with a plug top mains adaptor which may require fitting of the correct plug pin assembly. The tester will also work using four AAA batteries (not rechargable ones). Access to the battery holders is via the front panel. Using a screwdriver to undo the screws holding the panel on the top of the tester to gain access to the battery compartment. Fit the four 1.5 volt AAA batteries observing correct polarity.

Picture shows battery orientation and display contrast control

Batteries/mains useage

As in most cases the unit will not be far from a soucre of mains electricity the tester has been designed to work mainly in this mode. However, if mains power is not available the tester will work from the internal batteries. To save battery power the LCD display backlight only comes on when working from the mains supply.

Special Functions

These speial functions are accessed by pressing and holding the test button before switching on.

Function 1

Press and hold the test button to clear the stored cable from memory.

Function 2.

If you know what sort of cable you are going to be testing you select this by pressing and hold the test button until the first cable title is shown:-

Press and hold the test button to select this cable or step onto the next cable.

Stored cables

3.5mm Stereo
BNC-BNC HORI
Coax TV
DVI-D single lnk
DVI-I Dual lnk 1
DVI-I Dual lnk 2
DVI-I Dual lnk 3
DVI-I Single lnk
DVI HDMI
DVI SVGA
F Type
HDMI
HDMI DVI
Monitor cable 1
Monitor cable 2
Phono/BNC RGB
Phono RW
Phono RWY
Phono single (Y)
RJ45/CAT5 no scr
RJ45/CAT5 scr
RJ45/CAT5 Xover
RJ45/CAT5 Xoverg
S-Video
Scart
Scart BNC RGBHV
Scart Phono RWY-1
Scart Phono RWY-2
Scart TV lead

Scart TV no p12
Scart TV 16 way
SVGA-BNC BLUE-1
SVGA-BNC BLUE-2
SVGA-BNC BLUE-3
SVGA-BNC GREEN-1
SVGA-BNC GREEN-2
SVGA-BNC GREEN-3
SVGA-BNC RED-1
SVGA-BNC RED-2
SVGA-BNC RED-3
SVGA-BNC HORIZ-1
SVGA-BNC HORIZ-2
SVGA-BNC HORIZ-3
SVGA-BNC VERT-1
SVGA-BNC VERT-2
SVGA-BNC VERT-3
SVGA-BNC RGB+HV1
SVGA-BNC RGB+HV2
SVGA-BNC RGB+HV3
SVGA cable 9w
SVGA cable 10w
SVGA cable 12w
SVGA cable 14w
SVGA cable 15w
SVGA DVI
SVGA Phono RGB
USB
XLR scr
XLR no scr

For detailed connection information please contact us via fax or email

Terminology

Local unit:

Remote unit:

Key options:

Single Bracket [ ] press and release.
Double Brackets [[ ]] press and hold until the display changes usually about 2 seconds.

In this example pressing and releasing the test button quickly will repeat the test program while pressing and holding the test button down will put the found cable into memory

Test Procedure

Switch the Local unit ON and the display will show the current software version installed:

```
AVjog            v1.32
                 [Next]
```

To test a cable or lead simply connect the Local and Remote units using the cable or lead and press the test button.

If the tested cable matches any one of the cables held in the program see the table of cables on page . In this example a Scart extension cable then the display will show:-

```
Scart
PASS 001 [Again]
```

If on subsequent testing the cable doesn't match any held in the program then it is assumed that it is probably a faulty version of the last good cable. Faults can either be OPEN circuits in which case the display will show:-
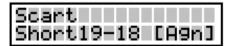
```
Scart
Open Pin03 [Nxt]
```

When you see the [Agn] display this means that all the faults have been shown and the tester is ready to test the next cable:-

```
Scart
Open Pin03 [Agn]
```

Faults can also be SHORT circuits in which case the display will show:-

```
Scart
Short18-19 [Nxt]
```

Finishing with:-

```
Scart
Short19-18 [Agn]
```

Note: Short circuits are shown in pairs as in the two examples. This is because a normal connection goes through a diode to Pin 1 of the connector and so only gives a connection one way e.g 01 to 18.
A short circuit bypasses the diodes and so will in most cases result in a pair of connections.

Test Procedure continued

If no connections are found the display will show:-

```
Ready
                 [Test]
```

If the connections found do not match any of the stored cables and no cable has been properly identified i.e the first test after switching on then the connections will be displayed:-

```
Found    01 to 02
                 [Next]
```

press the test button to step through the connections.

When the last connection is reached you will have the option of putting this cable into MEMORY so that similar cables can be tested against this one.

```
Found    01 to 21
[[MEM]]    [Again]
```

Press and hold the test key to place this cabe into memory. If you later on want to clear this see the Special Functions page 6.

If set the display will show:-

```
MEMORY
                 [Test]
```

OPEN and SHORTS will be displayed just as in a normal stored cable.

Should you see:-

```
Too many conns
                 [Again]
```

Then the tester has found more connections than it can cope with (96) and there are probably several short circuits in the cable.

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CONNECTOR PIN ASSIGNMENTS

| CONNECTOR | | | | | | | | | | | PHONO | | | PHONO | | | | BNC | | |
DVI	SCART	HDMI	SVGA	SVIDEO	USB	XLR	JACK	COAX	FTYPE	RED	WHITE	YELLOW	RED	GREEN	BLUE	RED	GREEN	BLUE	HORIZ	VERT
1=>1	1=>1	1=>1	1=>1	1=>1																
2=>2	2=>2	2=>2	2=>2	2=>2																
3=>3	3=>3	3=>3	3=>3	3=>3																
4=>4	4=>4	4=>4	4=>4	4=>4																
5=>5	5=>5	5=>5	5=>5	5=>GND																
6=>6	6=>6	6=>6	6=>6		6=>1															
7=>7	7=>7	7=>7	7=>7		7=>2															
8=>8	8=>8	8=>8	8=>8		8=>3															
9=>9	9=>9	9=>9	9=>9		9=>4															
10=>10	10=>10	10=>10	10=>10																	
11=>11	11=>11	11=>11	11=>11			11=>1														
12=>12	12=>12	12=>12	12=>12			12=>2														
13=>13	13=>13	13=>13	13=>13			13=>3														
14=>14	14=>14	14=>14	14=>14			14=>GND														
15=>15	15=>15	15=>15	15=>15				15=>TIP													
16=>16	16=>16	16=>16					16=>RING													
17=>17	17=>17	17=>17					17=>SLEEVE													
18=>18	18=>18	18=>18																		
19=>19	19=>19	19=>19																		
20=>20	20=>20							20=>TIP		20=>TIP										20=>TIP
21=>21	21=>21								21=>TIP	21=>SLEEVE										21=>SLEEVE
22=>22											22=>TIP									22=>TIP
23=>23											23=>SLEEVE									23=>SLEEVE
24=>24												24=>TIP						24=>TIP		24=>TIP
25=>25												25=>SLEEVE						25=>SLEEVE		25=>SLEEVE
26=>26													26=>TIP				26=>TIP			
27=>27													27=>SLEEVE				27=>SLEEVE			
28=>28														28=>TIP		28=>TIP				
													29=>SLEEVE		29=>SLEEVE				
														30=>TIP					
														31=>SLEEVE					
32=>GND		32=>GND	32=>GND		32=>GND			32=>SLEEVE	32=>SLEEVE											