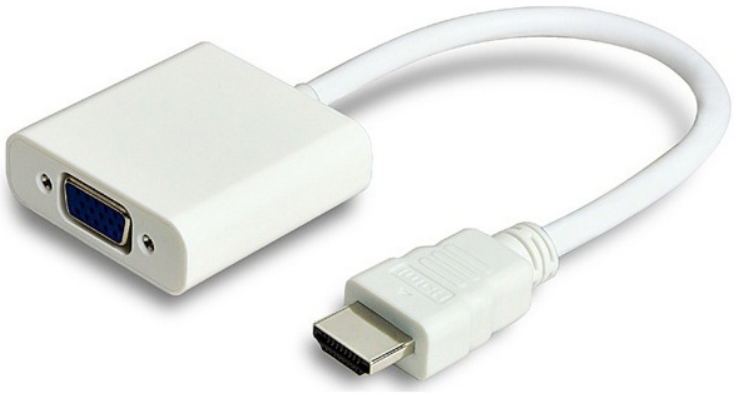
PI-VIEW

A portable digital-analog adapter cable, converting standard HDMI input to VGA output



User Guide

Version updates records:

Rev	Date	Description
1.0	2012.7.27	Initial version

Content

Chapter 1 Overview

1.1 Product Introduction

The PI-VIEW is a portable digital to analog adapter cable, converting standard HDMI input to VGA output. It is widely applicable where Computer/DVD/digital set-top box/laptop/a range of HD sources output's Digital signal but some display devices such as TV/monitor/projector doesn't have digital input interface. The PI-VIEW can be used to bridge this interface problem, by converting digital video signals (HDMI) into an analog signal which can be fed to the device having analog input interface (VGA). The PI-VIEW adapter cable offers a simple display device connectivity solution.

1.2 Features

- Flexible design and realize a line through function.
- Plug and play, no external power supply required,
- **Resolution supports**: 480p/720p/1080p (the maximum resolution depends on the resolution supported by the output device)
- **Material**: 99% High-purity oxygen-free copper wire core, 30u" Gold-plated terminals (Lossless signal), Gold-plated plug (Super abrasion resistance)
- **Input:** Standard HDMI Male Input
- **output**: VGA Female Output

Chapter 2 Hardware

2.1 HDMI Interface

Table 2-1 HDMI Interface

J1		
Pin	**Signal**	**Function**
1	DATA2+	TMDS data2+
2	DAT2_S	TMDS Data2 Shield
3	DATA2-	TMDS data-
4	DATA1+	TMDS data1+
5	DAT1_S	TMDS Data1 Shield
6	DATA1-	TMDS data1-
7	DATA0+	TMDS data0+
8	DAT0_S	TMDS Data0 Shield
9	DATA0-	TMDS data0+
10	CLK+	TMDS clock+
11	CLK_S	TMDS Clock Shield
12	CLK-	TMDS clock-
13	CEC	Consumer Electronics Control
14	Reserved	NC
15	SCL	IIC master serial clock
16	SDA	IIC serial bidirectional data
17	DCC/CECGND	GND
18	+5V	+5V
19	Hot Plug Detect	Hot plug and play detect

2.2 VGA interface

Table 2-2 VGA Interface

CN19		
Pin	**Signal**	**Function**
1	R	YPbPr or Analog RGB Output
2	G	YPbPr or Analog RGB Output
3	B	YPbPr or Analog RGB Output
4	ID0	VGA_VDD
5	GND0	GND
6	GND1	GND
7	GND2	GND
8	GND3	GND
9	NC	NC
10	GND4	GND
11	ID1	VGA_VDD
12	SDA	I2C-BUS Interface2 Serial Data Line
13	HSYNC	Horizontal Sync Signal Output
14	VSYNC	Vertical Sync Signal Output
15	SCL	I2C-BUS Interface2 Serial Clock Line

Chapter 3 Steps for using

Figure 1

1) Connect PI-VIEW HDMI interface to data source device having HDMI interface
2) Connect PI-VIEW VGA interface to output device having VGA interface

Some devices, such as desktop and laptop computers, limit the current they deliver to their USB sockets to a maximum of 500mA. Because Pi-View is powered by Raspberry Pi, this limitation can sometimes result in impaired video performance, especially when it is used simultaneously with other accessories which also require power. If Pi-View does not operate properly, please either remove unused accessories from Raspberry Pi , or power Raspberry Pi with an external high power USB power adapter.

Customer Service & Technical support

Customer Service

Please contact Premier Farnell local sales and customer services staffs for the help.

Website: http://www.farnell.com/

Technical Support

Please contact Premier Farnell local technical support team for any technical issues through the telephone, live chat & email, or post your questions on the below micro site, we will reply to you as soon as possible.

Centralized technical support mail box: knode_tech@element14.com

Community: http://www.element14.com/community/groups/raspberry-pi

Notes

This board was designed by element14's design partner- Embest, you can contact them to get the technical support as well.

Technical Support:

E-mail: support@embedinfo.com

URL: http://www.armkits.com