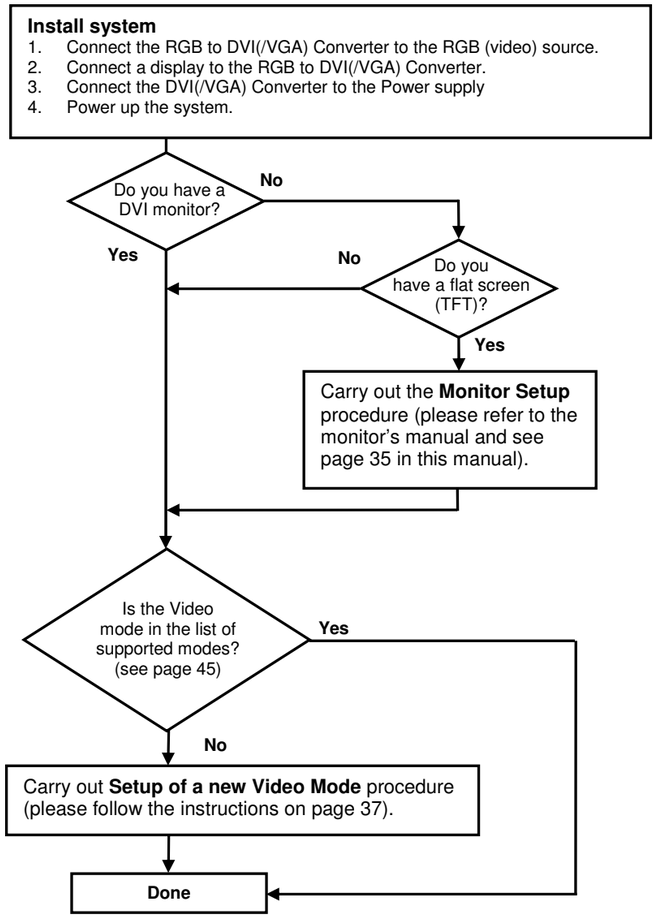
1 Quick Setup

This section briefly describes how to install your RGB to DVI(/VGA) Converter and optimize the video signals. Unless you are an experienced user, we recommend that you follow the full procedures described in the manual.



1 Installation

For first-time users, we recommend that you carry out a test placement, confined to a single room, before commencing full installation. This will allow you to identify and solve any cabling problems, and experiment with the RGB to DVI(/VGA) Converter more conveniently.

1.1 Package Contents

You should receive the following items in your RGB to DVI(/VGA) Converter package:

- RGB to DVI(/VGA) Converter unit.
- RGB(S) to DVI-I cable
- 6V DC 12W universal power supply for RGB to DVI(/VGA) Converter.
- DVI-I to VGA adaptor (DVI-I dual link male to HD15 female) connector.
- Data Cable DSUB9male- DSUB9female
- Programming cable (DB9 female to RJ11 4p4c).
- User manual (Quick Setup).
- US-type power cord.
- Infrared Remote Control (IR-RC)

If anything is missing, please contact Technical Support

1.2 System Setup

To install your RGB to DVI(/VGA) Converter:

1. Switch off all devices.
2. Connect your TFT directly to the device; connect a VGA screen by using the equipped DVI-I to VGA adapter.

   Attention: Connect the VGA monitor cable to the adapter; then plug in the adapter into the device. Otherwise, the VGA mode is not detected, DVI output is generated and there will be no picture on the screen (see also on page 1).

   Under some circumstances, if your TFT supports both DVI and VGA through a DVI-I cable, it might be necessary to use an additional DVI-I to DVI-D adaptor to get a DVI output. Please contact technical support for this accessory.

3. **RGB:** Connect the graphic source to the input connectors as shown in **Fehler! Verweisquelle konnte nicht gefunden werden.**4, using the equipped 4xBNC-to-DVI adaptor. Please note, for connecting a CGA or EGA source, connect the optional CGA-to-DVI adaptor or EGA-to-DVI adaptor instead of the 4x BNC-to-DVI adaptor.

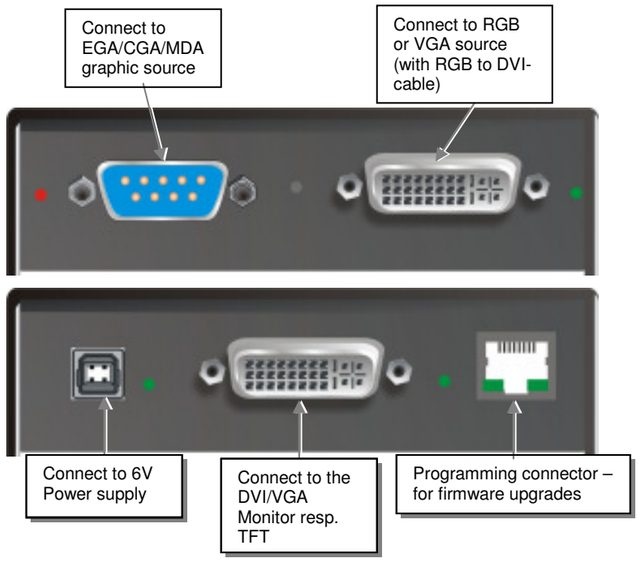
   VGA: Connect the graphic source to the input connectors as shown in Figure 4 using the VGA to DVI-I Cable which is an optional feature.
   TTL: Connect the graphic source to the input connectors as shown in **Fehler! Verweisquelle konnte nicht gefunden werden.**4, using the equipped Data Cable DSUB9male-DSUB9female.

4. Connect the 6V power supply to power the unit.

   Only use the power supply originally supplied with this equipment or a manufacturer-approved replacement.

5. Power up the system.

2 Device view



2.1 Diagnostic LEDs

Each RGB to DVI(/VGA) Converter is fitted with four indicator LEDs: *Monitor Detect*, *Device Ready* and *Video Signal* and *Power*.

The *Monitor Detect* LED is to the right of the DVI output connector. The *Power* LED is to right of the power supply connector. The *Device Ready* is left to the EGA/CGA/MDA connector and *Video Signal* LEDs is right to the DVI Input connector.

The location of the LEDs is shown below:

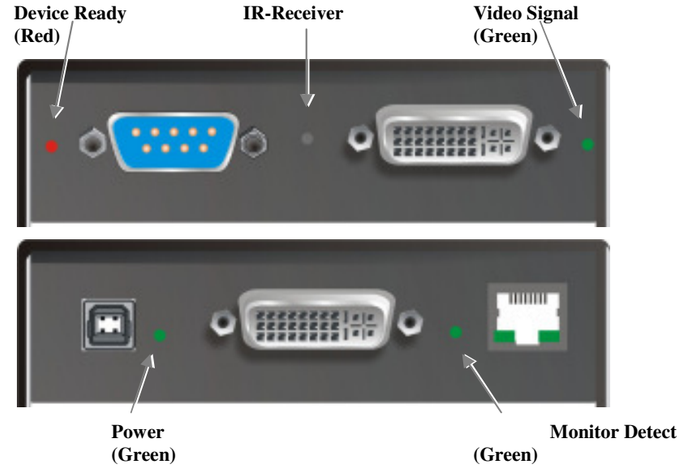


Figure 1 Diagnostic LEDs on RGB to DVI(/VGA) Converter

LED	*Appearance*	*Diagnostics*
Monitor Detect (Green LED)	On Flashing Off	Attached DVI monitor (TFT) detected Attached VGA monitor (CRT) detected No monitor detected
Device Ready (Red LED)	On Off	Device ready Device not ready
Video Signal (Green LED)	On Off	Attached and valid mode detected No video signal or valid mode detected
Power LED (Green LED)	On Off	Device ready Device not ready

3 Device Control

If you are using the CGA/EGA/MDA input or use an RGB format stored in the internal table, no adjustment should be required. In other cases, you may need to optimize the output using the RGB to DVI(/VGA) Converter's on-screen display (OSD).

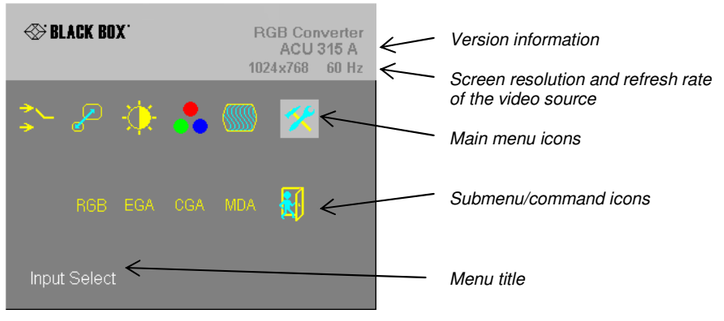


Figure 2 OSD Utility

You can adjust the following properties using the IR-Remote Control:

- Brightness/contrast
- Selection of Input Signal

You can adjust the following properties using the OSD:

- Auto Configuration ON/OFF
- Color, Color Temperature adjustments
- Brightness/contrast
- Input Image Sizing
- Output Image Scaling and Sizing
- Video Mode selection for similar Video Modes (see **Fehler! Verweisquelle konnte nicht gefunden werden.** on page **Fehler! Textmarke nicht definiert.**).
- OSD operation, factory reset.

3.1 Opening the OSD

You can access the OSD by using the equipped Infrared Remote Control (IR-RC).

3.2 Using the IR-RC

For direct brightness adjust		For direct contrast adjust	
	*more brightness*		*more contrast*
	less brightness		*less contrast*

3.2.1.1.1 Reset to factory defaults

Reset to factory defaults (from flash) = resetting user presets (press twice !!)

3.2.1.1.2 To navigate within the OSD:

exit OSD without saving values (ESC key)

Navigate to the left, Parameter (-) (left arrow key)

Navigate to the right Parameter (+) (right arrow key)

pop up theOSD, select function/ submenus, store modified parame-ter (Enter-Key)

Table os supported Video-Modes

description	Hres	Vres	V-freq Hz
MONA S5	442	416	54,4
AS 230 / 235 / OS 252	448	288	50,0
GBE 3977 - 64x32	448	288	50,0
DCC 555a	504	280	50,0
WF 470	512	240	49,1
WF 470 / AS 215	512	256	50,1
WF 470 / AS 215	512	512	50,0
WF 470 neu	512	245	50,1
DCS 560	560	288	50,0
DISET - 80x25	560	288	50,0
GBE 3977 – 80x48	560	288	50,0
GEM 80 graph i	560	224	50,0 / 60,0 / 75,0
GEM 80 graph progr.	560	448	50,0 / 60,0 / 75,0
MONA-C	560	413	58,2
WF 480	580	480	60,0
ABB MOD 300	640	385	60,0
CGA	640	200	60,0
COROS LS-C	640	405	59,1
CP 526 highres. 50 Hz	640	468	50,0 / 60,0
CP 528 highres. 60 Hz	640	468	60,0
CP526/527	640	234	50,1
DOS graphic Mode	640	350	70,0
EGA (TTL)	640	350	59,9
GEM 80 text	640	288	48,8
IVE2	640	398	50,0
IVE3	640	379	50,0
IVE4	640	385	50,0
MAC Mode	640	480	66,7
OP 398 K	640	400	60,0
Prokon 1	640	432	53,8
Prokon 2	640	288	83,1
Prokon 3	640	432	59,0
Vesa Standard	640	350	85,0
Vesa Standard	640	400	85,0
Vesa Standard	640	480	60,0 / 72,8 / 75,0 / 85,0
VGA	640	400	56,0 / 70,0
WF 480 / Gracis	640	480	59,9
NEC	642	200	60,0
Std.- VGA	656	496	59,9
NTSC (halfline)	680	240	60,0
ABB DSAV110	720	336	50,0
ABB DSAV111	720	336	61,2
DOS Text Mode	720	400	70,0
Hercules monochrom	720	350	49,8
NTSC Interlaced	720	240	60,0
NTSC progressive	720	480	60,0
PAL Interlaced	720	288	50,0
PAL progressive	720	576	50,0
Teleperm / DS 078	720	408	60,0
VDU 2000 Coros	720	405	59,1
Vesa Standard	720	400	85,0
PC-Textmode	738	414	70,1
MTBI	746	246	60,0
CP 527/ 60	800	468	59,9
Vesa Standard	800	600	56,2 / 60,3 / 72,1 / 75,0 / 85,0
MAC Mode	832	624	75,0
Industrie Standard (I)	1024	768	87,0
SUN Mode	1024	768	72,0
Vesa Standard	1024	768	60,0 / 70,0 / 75,0 / 85,0
DISET oversample	1120	288	50,0
DMT1185	1152	864	70,0
SUN Mode	1152	900	66,7
Vesa Standard	1152	864	75,0
GBE 3977 oversample	1164	288	50,0
1280 interlaced	1280	512	40,0
DMT127A	1280	960	75,0
SUN Mode	1280	1024	66,7
SXGA Unix	1280	1024	73,0
TV Mode	1280	768	60,0
TV Mode	1280	1024	50,1
Vesa Standard	1280	960	60,0
Vesa Standard	1280	1024	60,0 / 75,0

BLACK BOX®
NETWORK SERVICES

RGB/EGA/CGA/MDA to DVI(/VGA) Converter

ACU315A-R2

(Quick Setup)

http://www.blackbox.com