Overview

DVI-D to RGBHV converters are available in two models: a standalone module and an accessory board in an AF-10 (FIG. 1). This guide contains complete information for the module. For the accessory board, see the AF-10 Quick Start Guide for instructions on adding or replacing boards and for AF-10 specifications. All quick start guides are on the *AMX AutoPatch Software & Documentation CD* and at **www.amx.com**.
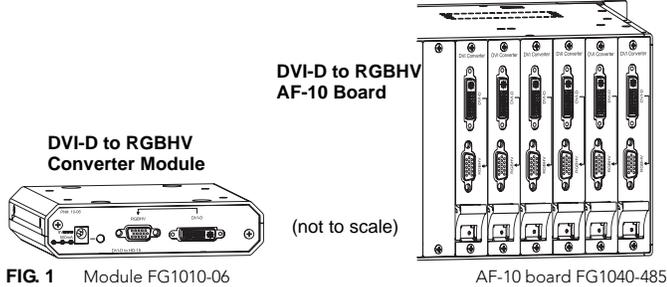
DVI-D to RGBHV AF-10 Board

DVI-D to RGBHV Converter Module

(not to scale)

FIG. 1   Module FG1010-06

AF-10 board FG1040-485

Product Specifications

Product Specifications	
Approvals	CE, UL, cUL
Power – Module	+9 VDC, 500 mA wall transformer, 2.1 mm DC power jack
Power – AF-10	120 VAC / 240 VAC
Humidity	0 to 90% non-condensing
Operational Temperature	32° - 110° F (0° - 43° C)
Dimensions – Module	5.22 in. (13.26 cm) depth 5.82 in. (14.78 cm) width 1.42 in. (3.61 cm) height without feet
Weight – Module	Approximately 1.5 lbs (0.68 kg)
Specification	DVI-D 1.0 (single link)
DDC/EDID Support	Provided by converter
HDCP Support	No
Connectors	DVI-I (supports DVI-D signal) and HD-15

Module Mounting Options

- Desktop – attach the rubber feet (included) on the bottom of the module.
- Rack Trays & Mounting Brackets – contact your AMX representative for details.

Installation

Typical System Setup

The DVI-I connector on the converter routes a DVI-D signal and accepts cable with either DVI-D or DVI-I connector plugs. The module and the AF-10 board support the eight resolutions listed in the table to the right above.
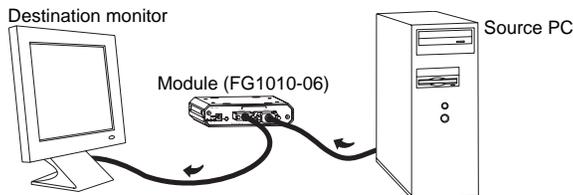
Destination monitor

Module (FG1010-06)

Source PC

FIG. 2   System setup with converter module

Destination monitor

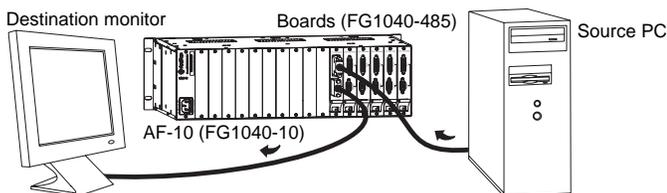Boards (FG1040-485)

Source PC

AF-10 (FG1040-10)

FIG. 3   System setup with AF-10 converter boards

Supported Resolutions

The video card in the system must be set to one of the resolutions and its corresponding refresh rate in the table below.

Supported Resolutions	
Resolution	**Refresh Rate***
640x480	120 Hz max.
800x600	120 Hz max.
1024x768	120 Hz max.
1152x864	100 Hz max.
1280x768	85 Hz max.
1280x960	85 Hz max.
1280x1024	85 Hz max.
1600x1200	75 Hz max.**

* Some monitors may not accept the maximum refresh rate.

** This refresh rate exceeds DVI specifications.

To change the Source PC's video card resolution/refresh settings on Windows operating systems:

1. Minimize all applications on the Source PC.
2. Right click on the desktop.
3. Select Properties from the shortcut menu.
4. Select the Settings tab in the Display Properties dialog box.
5. Adjust the Screen area setting (resolution) to match one of the eight supported resolutions listed in the table above.
6. Click Advanced.
7. Select the Monitor tab.
8. Adjust the Refresh Frequency, which is expressed in Hertz (see table above). If the frequency setting is not located under the Monitor tab, try selecting other available tabs.
9. Click Apply, and then click OK on each dialog box to exit.
10. Power down the PC.
11. Install the converter (see "Installation" below).
12. Reapply power to the PC.

Installation

- Module – directions for attaching connectors are below
- AF-10 Board – directions for attaching connectors are on the reverse
- Pinouts – DVI-I (FIG. 6) and HD-15 (FIG. 7) connector pinouts are on the reverse.

Module

To attach connectors:

1. Insert the DVI-D and HD-15 cable connector plugs into the receptacles on the module (FIG. 4).

DVI-I receptacle

PN#: 10-06

RGBHV   DVI-D

9V 500mA

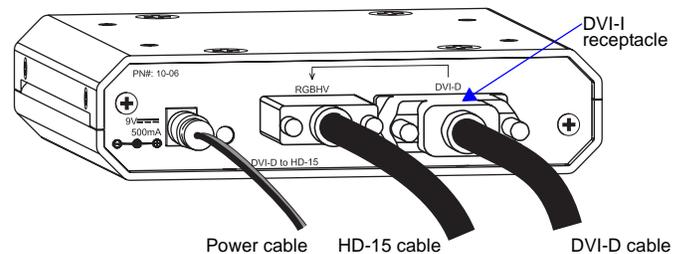DVI-D to HD-15

Power cable   HD-15 cable   DVI-D cable

FIG. 4   Attach DVI-D, HD-15, & power cable connectors

2. Plug the power cord into the power jack on the module and into the power source.

AF-10

Note: *The AF-10 supports up to six DVI-D to RGBHV converter boards.*

To attach connectors:

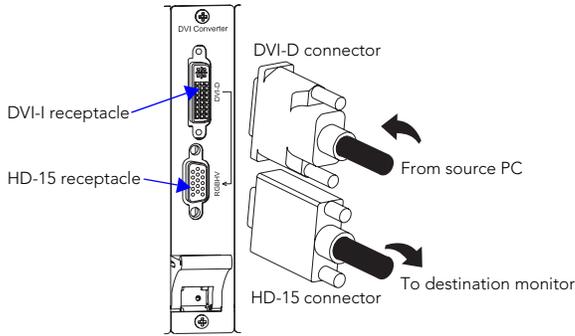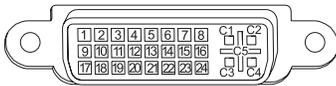1. Insert the DVI-D and HD-15 cable connectors into the receptacles on the AF-10 board (FIG. 5).

FIG. 5 Attach DVI-D & HD-15 cable connectors

2. Plug the power cord into the power receptacle on the rear of the AF-10 and into the power source.

DVI-I Connector Pinout (DVI-D Signal)

1. Data 2-	9. Data 1-	17. Data 0-	C1. No connect
2. Data 2+	10. Data 1+	18. Data 0+	C2. No connect
3. Ground	11. Ground	19. Ground	C3. No connect
4. No connect	12. No connect	20. No connect	C4. No connect
5. No connect	13. No connect	21. No connect	C5. No connect
6. DDC-CLK	14. +5 V In DDC	22. Ground	
7. DDC-Data	15. Ground	23. CLK+	
8. No connect	16. Hot-Detect	24. CLK-	

FIG. 6 DVI-I connector pinout for converter module or board

HD-15 Connector Pinout
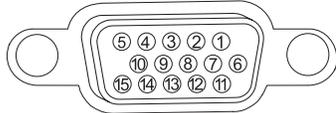
Output (VESA DDC Compliant)

1. Red	6. Red GND	11. ID Bit
2. Green	7. Green GND	12. ID Bit
3. Blue	8. Blue GND	13. Horizontal Sync
4. ID Bit	9. +5 V out DDC	14. Vertical Sync
5. GND	10. GND	15. ID Bit

FIG. 7 HD-15 connector output pinout for converter module or board

Note: *55 mA supplied on output pin 9; power draw not to exceed 50 mA per port.*