

# **Universal Cable**

## **User Manual**

Visual Circuits Corporation

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# UNIVERSAL CABLE

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## Cable Description

The Universal Cable is an 18" cable, which distributes the audio and video signals of Visual Circuits MPEG decoder boards. The cable will accommodate the MPEG Plus, 4ReelTime Pro, the 4ReelTime RGB with and without the RT Daughter card option, and the HD Focus.



Figure 1. Universal Cable

The video signal is distributed through shielded 75-ohm coaxial cables ending with RCA female connectors. The audio lines are standard audio cables with female RCA connectors. Installers should note that appropriate adapters must be ordered or made for each installation.

### NOTE

Visual Circuits does not stock or sell standard cable adapters or patch cables. Please consult with technical installation specialists for details on cable and display installation requirements.

The Universal Cable attaches to the decoder board via a 25-pin male D Sub, secured by two set-screws which attach to the decoder board's mounting bracket. The cable supports Composite, S-video, RGB, and HD video outputs along with stereo audio and Dolby Digital (HD) audio. RT Daughter card supported audio and video inputs are also available.



Figure 2. Universal Cable Audio/Video Breakout

# Pinout Table

The following table indicates the cable pinout assignment.

Pin No.	*MPEG Plus	RT Daughter	Composite & S-video	4ReelTime RGB	~HD Focus
1	GROUND	GROUND	GROUND	GROUND	GROUND
2	**AUDIO IN L	AUDIO OUT L/4	AUDIO L/4	AUDIO L/4	
3		COMP OUT 4	COMP 4	BLUE 4	
4		AUDIO IN R/4	LUM 4	GRN 4	
5	-BAL RIGHT	AUDIO OUT L/3	AUDIO L/3	AUDIO L/3	AUDIO SUB WOOFER
6	VERT SYNC	COMP OUT 3	COMP 3	BLUE 3	
7		AUDIO IN L/3	LUM 3	GRN 3	
8	-BAL LEFT	AUDIO OUT L/2	AUDIO L/2	AUDIO L/2	AUDIO LEFT REAR
9	H SYNC	COMP OUT 2	COMP 2	BLUE 2	V SYNC
10		AUDIO IN I/2	LUM 2	GRN 2	
11	AUDIO OUT L	AUDIO OUT L/1	AUDIO L/1	AUDIO L/1	AUDIO LEFT FRONT
12	COMP/ BLUE	COMP OUT 1	COMP 1	BLUE 1	BLUE/Pb
13	LUM/GRN *AUDIO IN L/1	AUDIO IN L/1	LUM 1	GRN 1	GREEN/Y
14		COMP IN 4		SYNC 4	
15	**AUDIO IN R	AUDIO OUT R/4	AUDIO R/4	AUDIO R/4	
16		AUDIO IN L/4	CHROMA 4	RED 4	
17		COMP IN 3		SYNC 3	

Pin No.	*MPEG Plus	RT Daughter	Composite & S-video	4ReelTime RGB	~HD Focus
18	+BAL RIGHT	AUDIO OUT R/3	AUDIO R/3	AUDIO R/3	AUDIO CENTER
19		AUDIO IN R/3	CHROMA 3	RED 3	
20	COMP SYNC	COMP IN 2		SYNC 2	
21	+BAL LEFT	AUDIO OUT R/2	AUDIO R/2	AUDIO R/2	AUDIO RIGHT REAR
22		AUDIO IN R/2	CHROMA 2	RED 2	
23	*COMP IN	COMP IN 1		SYNC 1	H SYNC
24	AUDIO OUT R	AUDIO OUT R/1	AUDIO OUT R/1	AUDIO R/1	AUDIO RIGHT FRONT
25	CHROMA/RED/ *AUDIO IN R/1	AUDIO IN R/1	CHROMA 1	RED 1	RED/Pr

~ Labels for HD Focus card are currently not indicated on the cable. Refer to the table for the appropriate connections.

\* Consult with your Visual Circuits Representative for Genlock switching options for the MPEG Plus board.

\*\* Audio switching with S-video/RGB video output is supported by the MPEG Plus Mod A board.

**NOTE**

Only Composite video switching support is available on all Visual Circuits' genlock products.

# INSTALLATION

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## Installation Safety Guidelines

**! CAUTION**

Be sure all safety guidelines in accordance with any electrical equipment attached to the video server or in close proximity to the Universal Cable are followed carefully.

The Universal Cable itself is a passive device requiring no power, but safety should be considered when installing and attaching any cables. Ensure that no electrical cables or other devices come in contact with the cable.

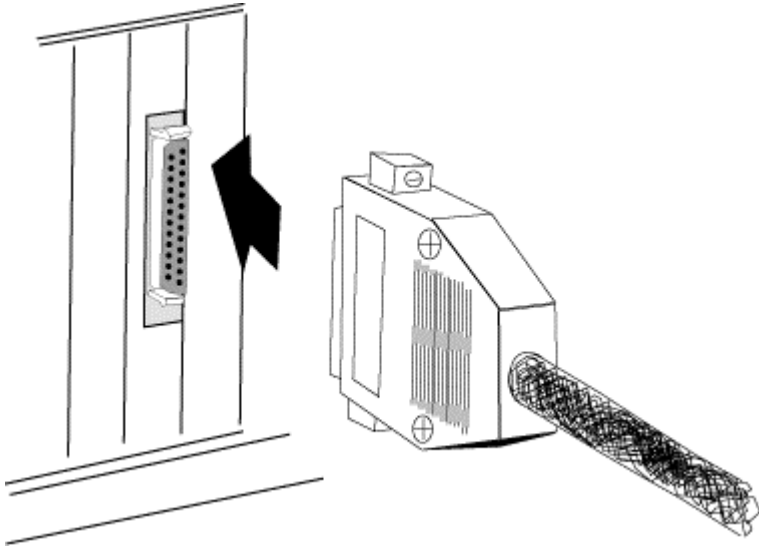
## Cable Installation

1. Back the set-screws off fully before attaching the cable. Do not use the attaching screws to “pull” the cable onto the female D Sub connector of the board.
2. Orient the D Sub on the cable properly and apply slight even pressure while connecting the D Subs.
3. Secure the Universal Cable in place with the two screws.
4. Attach the patch cables to the Universal Cable as per the installation.

**NOTE**

Apply strain relief as required when attaching patch cables. The set-screws will easily support the Universal Cable strain, but will not take into account the weight and strain of any connected cables.

Figure 3. Cable Installation



- ❑ All specifications are subject to change without notice.

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## **Revision History**

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