

# The Worlds most reliable Video Assist

**HD INPUT and ANALOG OUTPUT:**

## Why does the Modulus 5000 perform the best?

- ⊞ Better capture with moving cameras, and through objects
- ⊞ Accepts all inputs: HD-SDI, SD-SDI, 3G and Composite
- ⊞ Analog transmission is much more stable than digital
- ⊞ Analog bandwidth is now very open and available
- ⊞ Increased transmission power and greater range
- ⊞ Output in NTSC and PAL: use inexpensive monitors.
- ⊞ Deploy up to 28 Moduli in one location

With powerful 1000mW output and 56 channels of operation, the 5000 is the most economical and dependable solution for digital wireless video assist. (US version - 240mW/41 channels\*)



## MODULUS 5000 Specifications

ELECTRICAL AND MECHANICAL *	
Channels	14-69, UHF 470 to 810MHz (5000US = 14-51)
Video Inputs	
Hi-Def	HD-SDI, 3G, SD-SDI, @10bits
Composite	NTSC or PAL, 1V p-p @ 75Ω
Power In	9-36 Vdc @ 500mA nominal
Output Power	Nominal 1000mW (5000US = 240mW)
Dimensions	1.7 x 4.7 x 3" (43x120x78mm)
Weight	18oz (510g)
Mounting	2 ea. 1/4-20, 1.87" (46mm) on center



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### \* FCC REGULATIONS FOR WIRELESS VIDEO ASSIST OPERATION IN THE US :

- Producers must obtain an FCC license.
- Stations (users) must locate at least 129 km from a co-channel TV station.
- Wireless video assist devices may only be used for scheduled productions. They may not be used to produce live events, and may not be used for electronic news gathering purposes.
- Operation is prohibited on UHF channel 37 (608-614MHz).
- A local frequency coordinator (or adjacent channel TV stations, if there is no local coordinator) must be notified prior to operation.

# MODULUS 5000

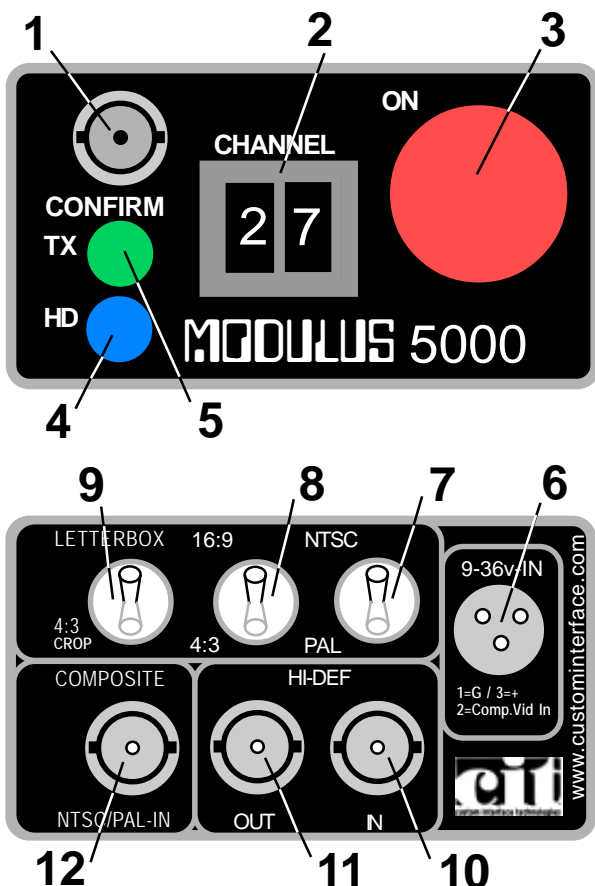
## Specifications and Wiring

## Operating Instructions

<b>ELECTRICAL AND MECHANICAL*</b>			
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Video Inputs			
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<b>CABLE CONNECTOR WIRING CHART</b>			
Function Connector	Pin 1	Pin 2	Pin 3
Power/Comp In FGG.0B.303.CLADxx	Ground	NTSC/PAL-In	+9-36vdc
Hi-Def In 75Ω BNC Male	Shell=G	Pin=+	X
Hi-Def Out 75Ω BNC Male	Shell=G	Pin=+	X
Comp Vid. In 75Ω BNC Male	Shell=G	Pin=+	X

\*specifications are subject to change without notice

- 1) Turn on your Receiver/Monitor and search for an open channel with no image, audio or digital noise. Turn the receiver off.
- 2) Set Channel Selector Dials "B" to the open channel you just identified.
- 3) Attach the transmit antenna to output BNC "A". For distances less than 100', or reflective interiors, attach an attenuator first to reduce the output power. The lower the output, the less multipath interference.
- 4) Connect power cable to connector "F".
- 5) Connect video: For HD, connect to BNC "J". For Composite video, connect to BNC "L" or combine with the power cable in connector "F".
- 6) Set Format switches "G,H,I" per chart on page 2.
- 7) Turn on Power Switch "C". Lighted switch indicates power is reaching the Modulus.
- 8) Green LED indicates the Modulus is transmitting properly, but does not confirm proper video input.
- 9) The Blue LED indicates the Modulus is receiving an HD video signal. This will not light with a composite video input.
- 10) Mount the Modulus as high as possible, with the antenna vertical and unobstructed by dense objects such as metal or flesh.



<b>1</b>	BNC-Female connector for RF Output. Connect 50Ω antenna
<b>2</b>	Channel selector switches. Set to open channel between 14 and 69.
<b>3</b>	Power On/Off switch. Proper power is reaching the unit when lit.
<b>4</b>	Green LED confirms the Modulus is transmitting correctly.
<b>5</b>	Blue LED confirms an HD video input signal. Will not light with composite video.
<b>6</b>	Power In connector. Accepts 9 to 36 volts. Composite video (NTSC or PAL only, no HD) may also be input on pin 2.**
<b>7</b>	Selects NTSC or PAL system for analog output.
<b>8</b>	Set for video input format ratio - 16:9 or 4:3.
<b>9</b>	Select output display aspect type when input is 16:9.
<b>10</b>	Hi-Def input connector. Accepts HD-SDI or SD-SDI.**
<b>11</b>	Pass-through Hi-Def output connector.
<b>12</b>	BNC-F, composite analog video input, either NTSC or PAL.**
	**Input only 1 video signal at a time. HD in BNC (#10) only

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