# **MYW-MD**

# Video Modulator/Demodulator for MY series Video Systems

# - INSTRUCTIONS -

The MYW-MD adaptor converts the video from a 2-wire signal to a standard coaxial video signal (Demodulator mode). It can also be used to convert a standard CCTV camera's signal to a 2-wire signal, compatible with Aiphone's MY series video monitors (Modulator mode).

# MODULATOR MYW-MD to integrate a Standard CCTV camera with an Aiphone Monitor





JUMPER CLIP: (Located under rubber cover in upper right corner of the faceplate of the MYW-MD) Set in Modulator (top) position from factory.

Ensure that jumper clip is between the top two pins.

#### MYW-MD TERMINAL DEFINITIONS:

MODULATOR:		DEMODULATOR:	
MA1	2-Wire output to	DA1	2-Wire input from
MA2	MY monitor/adaptor	DA2	MY monitor/adaptor
MV+	Coax input: center cond.	DV+	Coax output: center cond.
MV-	Coax input: Braided shield	DV-	Coax output: Braided shield
+	Positive 18V DC	+	Positive 18V DC
-	Negative	-	Negative

Input signal requirements: 75 ohm, 1V peak-to-peak. Coax: Solid copper core with copper braid. Output signal: 75 ohm, 1V peak-to-peak. Coax: Solid copper core with copper braid.



\* Use MYH-CU for surface mount applications.

**JUMPER CLIP:** (Located under rubber cover in upper right corner of the faceplate of the MYW-MD) Set in Modulator (top) position from factory.



Ensure that jumper clip is between the top two pins.

#### System Configurations:

1 Aiphone video door station and 2 CCTV cameras or

2 Aiphone video door stations and 1 CCTV camera

#### **Optional:**

Part #261380 - Video Output connector for MYW-P3L. (Provides a 1V peak-to-peak video signal output.)

#### NOTES:

1. In the above system example, the CCTV cameras are addressed by pressing the MONITOR button on the MYH-CUB. Press once to turn on camera 1 (MY-DC), press again to switch to camera 2 (CCTV #1), pressing MONITOR a third time will switch to Camera 3 (CCTV #2) and a fourth time turns the monitor off.

2. The LE-DA will become active by selecting station #9 on the LEF-10C. Selecting this station will also activate CCTV camera #2. The camera will not activate when the LE-DA calls in.

ONLY WIRING RELATING TO THIS APPLICATION IS SHOWN HERE. SEE PRODUCT INSTRUCTIONS FOR COMPLETE WIRING INFORMATION.

# DEMODULATOR

### MYW-MD used for VIDEO OUTPUT with Aiphone MY series Video Entry Systems

The picture from the Video Door Station can be seen at standard monitors whenever the Aiphone system is activated.



## **DEMODULATOR** MY Video Door Station with Standard Monitor (No audio communication or PanTilt capabilities)



Note: Continually powered, the overall life of the camera will be reduced and condensation may occur.

## **IMPORTANT:**

Modulator Deviation Control: Contrast control located underneath the cover in the upper right corner of the unit. This applies only when the MYW-MD is used with a CCTV camera. To adjust the picture for more contrast, turn the variable resistor clockwise with a small screwdriver.

## **OPERATIONS**

## **MODULATOR:**

#### Using the MODULATOR to Integrate a CCTV camera with an Aiphone 2-wire video system:

- 1. The view from the CCTV camera can be seen on the Aiphone MY monitor by pressing the MONITOR button. With multi-camera systems (MY-2CD, MYW-P3CB & MYW-P3L), the cameras will come up sequentially. (e.g. One press of MONITOR button brings up camera 1, second press brings up camera 2.) After the last camera in the system is activated, the next press of the MONITOR button will turn off the monitor. If the monitor is left on, it will automatically time out after 2-1/2 minutes.
- 2. When using a CCTV camera with the LEF/MY system, an audio sub station can be installed near the camera to provide both audio and video monitoring. The station is activated simultaneously from the LEF master

station

through the proper connection of the "K#" terminal of the master to the MYW-P3L adapter.

## **DEMODULATOR:**

#### Using the Demodulator for VIDEO OUTPUT with the Aiphone 2-wire video systems:

1. When the call button is pressed on the MY door station, the inside monitor station will ring and the picture will on. At that time, the video signal out of the MYW-MD adaptor will be present, and the picture can be seen come on the remote monitor.

2. When the MONITOR button on the inside Aiphone station is pressed, the picture will come up for approximately 2-1/2 minutes and video signal sent to the monitor via the MYW-MD.

3. The video signal can be connected to any receiving device that accepts a composite video signal (75 ohm, 1V peak-to-peak). This could be a standard CCTV monitor, a video input on a switcher or a multiplexer modulates the video onto a cable TV channel. To take the video signal directly into a TV,

system that use a spare video input or go through an RF modulator.

#### Using the Demodulator to integrate the MY video door station with a standard CCTV monitor:

(No audio communication or PanTilt is possible with this application)

1. To view the camera location at any time, the camera must be powered at all times, or a switch must be installed turn it on. To do this, the PC board must be modified by adding a jumper wire in the location indicated on to the wiring diagram on page 3.

2. There is no PanTilt control of the camera when used in this application. To adjust the angle of the MY-DC at the time of installation, remove the Lexan® dome and move the camera head to the desired angle. Replace the and install the unit. If an MY-CA video door station is used, the camera view will be centered and is not dome adjustable.

3. If the camera is powered continually, there will always be a video output from the MYW-MD. There is no audio communication possible through the door station. This application will shorten the life of the camera.

## SPECIFICATIONS:

Power:	18V DC. Use Aiphone model PS-18C (or PS-18YC/A with MY-1CD)	
Current consumption:	100mA as Modulator; 500mA as Demodulator	
Wiring distance:	ALL DISTANCES ARE USING 18 AWG WIRE	
Modulator:	Max. 330' from MYW-MD to MY Monitor/adaptor	
Demodulator:	Max. 30' from MY monitor when used for video output	
	Max. 330' from MY door station when used with a standard monitor	
Power supply:	Max. 16' to MYW-MD	
Dimensions:	5-1/2"H x 3"W x 1-1/2"D	
COAXIAL CABLE:	75 ohm, copper center conductor, copper braid, 95% coverage.	
Aiphone Pomesistance: Systems	Max, 15Ω per 1000 feet.	
1700 130th Ave. N.E.	Toll Free Technical Support:	
Bellevue. WA 98005	1-800-692-0200	Pg. 4
(425) 455-0510	FAX: 1-800-832-3765	MYW-MD Instr.
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