



RapidDome v1 Module Application Guide






Description

This module is intended for use with the ADEMCO RapidDome and RapidDome Gold series cameras.

Please note that the ADEMCO RS-485 serial buss is electrically **incompatible** with a Crestron port defined as RS-485. This module was developed and tested using an RE Smith (www.rs485.com) ASC24T RS-232 to RS-485 adapter connected to the Crestron Com Port. Connect the RS-485 ADEMCO buss directly to the 485 adapter taking note of the polarity.

The module allows for full control of the below listed functions. It will also follow the current status from any connected ADEMCO controller such as an AKJ8X. The current camera, tour and preset will track with the module.

While it is possible to talk directly to the cameras with this module it is recommended that you include some type of ADEMCO controller in the system to setup tours, dwell times, etc.

Compatibility			Processor Requirements	
 2-Series Compatible	 NOT CNMSX Compatible	 NOT System Builder Compatible	 Ethernet NOT NEEDED	 Compact Flash NOT NEEDED

<Module Name> v<Version>

Telephone: (+1)440-449-1100

support@controlworks.com

ControlWorks Consulting, LLC

http://www.controlworks.com

Module Application

This module requires an outboard RS232 to RS485 adapter due to incompatibilities with the Crestron RS485 port. ControlWorks recommends an RE Smith ASC24T RS232 to RS485 converter

Signal and Parameter Descriptions

Bracketed signals such as "[signal_name]" are optional signals

DIGITAL INPUTS

cam1_sel - cam16_sel	used to select the address of the camera you wish to control
speed1_sel to speed6_sel	used to select the speed at which the camera moves in the x and axis
preset1_sel - preset16_sel	used to select a given preset
set_preset	allows the module to set the current position as a preset
recall_preset	allows the user to recall the above set presets
autopan1_sel - autopan4_sel	allows the selection of the four "tours"
autoiris_on/off	turns the auto iris function of the selected camera on and off
autoiris_open/close	allows for manual adjustment of the iris
autofocus_on/off	turns the auto focus function of the selected camera on and off
autofocus_near/far	allows for manual adjustment of the focal length
autopan_off	Cancels the current autopan tour
flip_180	flips the current view 180 degrees automatically
toggle_color	allows the user to toggle between color and B&W operation
up/down/left/right	allows the user to move the camera in these directions

ANALOG INPUTS

This module does not utilize any analog inputs

SERIAL INPUTS

ademco_rx\$	tie to com port rx\$
-------------------	----------------------

DIGITAL OUTPUTS

cam1_sel_fb - cam16_sel_fb	indicates the currently selected camera
speed1_sel_fb - speed6_sel_fb	indicates the currently selected speed for x/y movement
preset1_sel_fb - preset16_sel_fb	indicates the current preset
set_preset_fb	indicates that the preset number is to be memorized
recall_preset_fb	indicates that the preset number is to be recalled
autopan1_sel_fb - autopan4_sel_fb	indicates the currently selected tour
autoiris_on/off_fb	indicates the current status of the autoiris
autofocus_on/off	indicates the current status of the autofocus

ANALOG OUTPUTS

This module does not utilize any analog outputs.

SERIAL OUTPUTS

ademco_tx\$	tie to com port tx\$
-------------------	----------------------

PARAMETERS

This module does not utilize any parameters.

Support

This module is supported by ControlWorks Consulting, LLC. Should you need support for this module please email support@controlworks.com or call us at 440-449-1100. ControlWorks normal office hours are 9 AM to 5 PM Eastern, Monday through Friday, excluding holidays.

Before calling for support, please ensure that you have loaded and tested operation using the included demonstration program and touchpanel(s) to ensure that you understand the correct operation of the module. It may be difficult for ControlWorks to provide support until the demonstration program is loaded.

Updates, when available, are automatically distributed via Email notification to the address entered when the module was purchased. In addition, updates may be obtained using your username and password at <http://www.thecontrolworks.com/customerlogin.aspx>.

Distribution Package Contents

The distribution package for this module should include:

RapidDome v1 help.pdf	this help file
RapidDome v1.umc.....	Crestron user module to insert in program
RapidDome Demo TPS3000 v1.vtp	example touchpanel (TPS-3000)
RapidDome Demo XPANEL v1.vtp.....	example XPANEL
RapidDome Demo v1.smw	example program (PRO2)

Revision History

V1 jim@controlworks.com

First release – Final testing and documentation on 11-11-02 with an AKJX8 and RapidDome Gold AD8GCM18W

Development Environment

This module version was developed on the following hardware and software. Different versions of hardware or software may or may not operate properly. If you have questions, please contact us.

ControlWorks Consulting, LLC Module License Agreement

Definitions:

ControlWorks, *We*, and *Us* refer to ControlWorks Consulting, LLC, with headquarters located at 701 Beta Drive, Suite 22 Mayfield Village, Ohio 44143-2330. *You* and *Dealer* refer to the entity purchasing the module. *Client* and *End User* refer to the person or entity for whom the Crestron hardware is being installed and/or will utilize the installed system. *System* refers to all components described herein as well as other components, services, or utilities required to achieve the functionality described herein. *Module* refers to files required to implement the functionality provided by the module and may include source files with extensions such as UMC, USP, SMW and VTP. *Demo Program* refers to a group of files used to demonstrate the capabilities of the Module, for example a SIMPL Windows program and VisionTools Touchpanel file(s) illustrating the use of the Module but not including the Module. *Software* refers to the Module and the Demo Program.

Disclaimer of Warranties

ControlWorks Consulting, LLC software is licensed to You as is. You, the consumer, bear the entire risk relating to the quality and performance of the Software. In no event will ControlWorks Consulting, LLC be liable for direct, indirect, incidental or consequential damages resulting from any defect in the Software, even if ControlWorks Consulting, LLC had reason to know of the possibility of such damage. If the Software proves to have defects, You and not Us must assume the cost of any necessary service or repair resulting from such defects.

Provision of Support

We provide limited levels of technical support only for the most recent version of the Module as determined by Us. We do not provide support for previous version of the module, modifications to the module not made by Us, to persons who have not purchased the module from Us. In addition, we may decline to provide support if the Demo Program has not been utilized. We may withdraw a module from sale and discontinue providing support at any time and for any reason, including, for example, if the equipment for which the Module is written is discontinued or substantially modified. The remainder of your rights and obligations pursuant to this license will not be affected should ControlWorks discontinue support for a module.

Modification of Software

You may not decrypt (if encrypted), reverse engineer, modify, translate, disassemble, or de-compile the Module in whole or part. You may modify the Demo Program. In no event will ControlWorks Consulting, LLC be liable for direct, indirect, incidental or consequential damages resulting from You modifying the Software in any manner.

Indemnification/Hold Harmless

ControlWorks, in its sole and absolute discretion may refuse to provide support for the application of the Module in such a manner that We feel has the potential for property damage, or physical injury to any person. Dealer shall indemnify and hold harmless ControlWorks Consulting LLC, its employees, agents, and owners from any and all liability, including direct, indirect, and consequential damages, including but not limited to personal injury, property damage, or lost profits which may result from the operation of a program containing a ControlWorks Consulting, LLC Module or any component thereof.

License Grant

Software authored by ControlWorks remains the property of ControlWorks. ControlWorks grants You the non-exclusive, non-transferable, perpetual license to use the Software authored by ControlWorks as a component of Systems programmed by You. This Software is the intellectual property of ControlWorks Consulting, LLC and is protected by law, including United States and International copyright laws. This Software and the accompanying license may not be transferred, resold, or assigned to other persons, organizations or other Crestron Dealers via any means.

The use of this software indicates acceptance of the terms of this agreement.

Copyright (C) 2009 ControlWorks Consulting, LLC All Rights Reserved – Use Subject to License.
US Government Restricted Rights. Use, duplication or disclosure by the Government is subject to restrictions set forth in subparagraphs (a)-(d) of FAR 52.227-19.