



Manufacturer: Lumens Digital Optics Inc.  
 Model: PS753/CL511  
 Device Type: Camera

CONTACT SUPPORT:	
COMPANY NAME:	Lumens Digital Optics Inc.
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NOTES:	

GENERAL INFORMATION	
SIMPLWINDOWS NAME:	Lumens PS753 v1.0, Lumens CL511 v1.0
CATEGORY:	Camera
VERSION:	v1.0
SUMMARY:	This module provides RS-232 / IP control of Lumens Document Cameras
GENERAL NOTES:	RS-232 / IP control of the Lumens PS753/CL511 Document Camera
CRESTRON HARDWARE REQUIRED:	<ol style="list-style-type: none"> <li>1. Crestron 3-Series Controller</li> <li>2. Com port x1</li> <li>3. LAN port x1</li> </ol>
SETUP OF CRESTRON HARDWARE:	RS232 Baud:9600 Parity:None Data Bits: 8 Stop Bits: 1
VENDOR FIRMWARE:	Unknown

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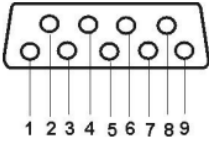
VENDOR SETUP: N/A

CABLE  
 DIAGRAM:

**1. Communication Protocol**  
 Transmit Method: Asynchronous Interface Half Duplex Serial Communication.

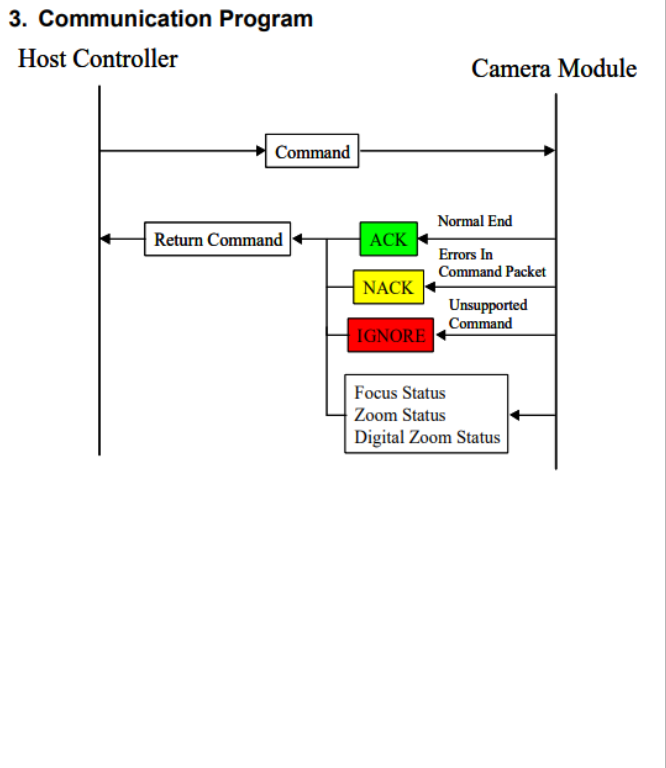
- Transmit Speed: 9600bps
- Start bit: 1Bit
- Parity Check: NA
- Data Bit: 8Bit
- Stop Bit: 1Bit

**2. The wire diagram**  
 The RS232 wire diagram between presenter and remote controller as below



Female

CONNECTIONS		
DB 9F	COLOUR	DB 9F
2	-	3
3	-	2
5	-	5
SHELL	DRAIN	SHELL

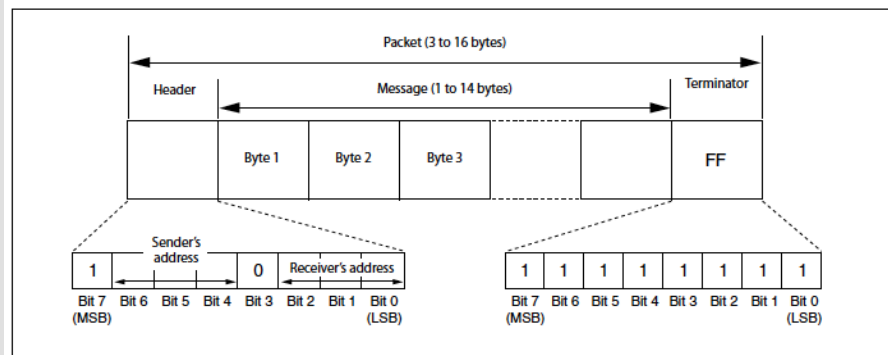


➤ **RS232 over IP**

The communication specifications of RS232 over IP are as follows:

- Interface : RJ-45 10Base-T/100Base-TX (automatically discrimination)
- Internet protocol : IPv4
- Transport protocol : UDP
- IP address : Set by the IP card setting command
- Port address : 52381
- Packet Structure

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#### CONTROL:

Power On_Off	D	Power on / off the unit
Lamp All Off	D	Turn off all lamp
Lamp On	D	Turn on left and right lamp
Backlight On	D	Turn on Backlight
Pan On	D	Press and start to move screen
Pan Off	D	Press and stop to move screen
Mask/Spotlight disable	D	Turn off Mask and Spotlight
Mask	D	Turn on the mask
Spotlight	D	Turn on the Spotlight
Rotate_0_Degree	D	Screen is not rotate
Rotate_180_Degrees	D	Screen is rotate 180 Degrees
Rotate_Flip	D	Screen is flip



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Rotate_Mirror	D	Screen is mirror
Rotate_90_Degrees	D	Screen is rotate 90 Degrees
Rotate_270_Degrees	D	Screen is rotate 270 Degrees
Freeze On_Off	D	Screen freeze turn on/off
Source_Camera	D	Screen source is camera
Source_Passthrough	D	Screen source is other device by HDMI in
Playback	D	Playback the film in storage
PIP	D	Put the record picture and instant screen side by side
Record	D	Record the film of screen.
Capture Delete	D	Delete capture picture
Auto Tune	D	AF, AE, AWB is on.
AWB one push	D	AWB is on
AF one push	D	AF is on
Zoom Limit 20X/30X/40X/100X/300X	D	Turn on zoom limit 20X/30X/40X/100X/300X
Zoom Direct	D	Select zoom ratio directly
Zoom Step+/Step-	D	Start Zoom in/out
Zoom Speed	D	Select zoom in/out speed
Zoom Tele/Wide	D	Start Zoom in/out
Image Mode_normal	D	Switch to image mode normal



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Image Mode_Film	D	Switch to image mode film
Image Mode_Slide	D	Switch to image mode slide
Image Mode_Microscope	D	Switch to image mode microscope
Photo-Text_Photo	D	Switch to photo-text photo
Photo-Text_Text	D	Switch to photo-text text
Photo-Text_Gray	D	Switch to photo-text gray
Focus Direct	D	Select focus directly
Focus Step+/Step-	D	Adjust focus to near/far
Focus Speed	D	Select focus speed
Focus far/near	D	Adjust focus to far/near
Audio Source_Build in MIC	D	Select audio source from build in MIC
Audio Source_Line-in	D	Select audio source from Line-in
Slide Show_On/Off	D	Turn on/off slides how
Brightness Step+/-	D	Adjust Brightness to brighter/darker
AE Sate Display_On/Off	D	Turn on/off AE
Audio Levels	D	Select Audio Level
Audio-Out Levels	D	Select Audio-out Level

**FEEDBACK:**

Brightness AE-On	D	Get current Brightness AE-On level
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Brightness AE-Off	D	Get current Brightness AE-Off level
Zoom Direct Step	D	Get current Zoom Direct Step
Audio Levels	D	Get the audio level
Audio Out Levels	D	Get the Audio Out Volume
Focus Direct	D	Get the current Focus direct ratio
Focus Step	D	Get the current Focus step position

**PARAMETERS:**

NA		
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**TESTING:**

OPS USED FOR TESTING:	CP3: v1.012.0017
SIMPL WINDOWS USED FOR TESTING:	4.11.05
DEVICE DB USED FOR TESTING:	114.00.001.00
CRES DB USED FOR TESTING:	88.00.002.00
SYMBOL LIBRARY USED FOR TESTING:	1101
SAMPLE PROGRAM:	PS753_CL511-EXE.c3p
REVISION HISTORY:	v1.0 – Initial Release