

# ScreenPRO II™ External Control Protocol

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## **Revision history**

<b>Revision</b>	<b>Date</b>	<b>Description</b>	<b>Initials</b>
1.00	3/1/08	First Release	RP

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# Syntax

## Serial Parameters

The following are the default parameter settings for serial communication.

Baud Rate is 115.2K.

Parity is NONE.

Stop Bit is 1.

Data Bit is 8.

## RS232 Mode

The ScreenPRO II will respond with a '#' prompt when the command processor is ready for a command.

*The command syntax is shown below*

*cmd arg1 arg2 ... argn<CR>*

cmd	cmd is any valid command, typically 2 to 6 alphabetic (non numeric) characters.
arg	arg1, arg2, ... argn are required or optional parameters depending on the command used.
<CR>	carriage return (ASCII 13) terminates the command

A space (ASCII 32) must be inserted between the command and any arguments that follow. A space must also be inserted between all argument parameters except for the last argument in the chain.

All commands in RS232 mode **must** be terminated with a carriage return (ASCII 13). The carriage return will tell the command processor to begin execution of the command. See below for a description of error codes.

Query commands will return the following:

=result

#

The '=' indicates a result from a command is following. The 'result' will follow directly after the '='. The value of the result will vary depending on the query command used. A new line will be generated and the prompt will indicate the system is ready for a new command.

Commands to ScreenPRO II may be concatenated provided that each command is separated with a carriage return (0x0D or ASCII 13) and no more than 3072 characters are sent at a time.

## Ethernet Parameters

The following information describes how to connect to ScreenPRO II via Ethernet.

Communication Protocol Supported: TELNET

Default IP Address: 192.168.0.10

Communication Port: 3000

Example: telnet 192.168.0.10 3000 (This example can be done from a Command Prompt in Windows).

Once connected to ScreenPRO II, operation is the same as in RS232 Mode.

# COMMANDS

## Command:

**KP [key label] <button action>**

Description: This command emulates key presses for the front panel of the ScreenPROII.

Parameters: **key label** [see Table Below]

**button action** [H|R|D] Key Hold | Key Release | Key Double Punch

Example: KP 1 (Performs a key press/release function on the Source 1 key.)

KP MOVE D (Performs a Double Punch on the Move key,)

[key label] – This parameter specifies the button to push and/or release.

## ScreenPRO II Key Label:

Actual Button Text	[key label]
1	1
2	2
3	3
4	4
5	5
6	6
7	7
8	8
SDI 1	SDI1
SDI 2	SDI2
BG A	BGA
BG B	BGB
Layer A	LAYERA
Layer B	LAYERB
DSK	DSK
Logo	LOGO
Wipe	WIPE
Cut	CUT
Mix	MIX
Split Layer	SPLITLAYER
Key	KEY
Full Screen	FULLSCREEN
PIP	PIP
Clear Layer	CLEARLAYER

Swap Z-Order	SWAPZORDER
Freeze	FREEZE
Reset	RESET
Move Setup	MOVESETUP
Move	MOVE

<button action> - This is an optional parameter that will perform as follows:

Not Specified – Key Label will act as if the button has been pushed and then immediately released.

H – Key label will act as if the button is being held in a pushed state.

R – Key label will act as if the button is being released, only if currently in a held state.

D – Key label will act as if the button is being double-punched.