



SCHOTT ColdVision Light Source

Firmware Change Log

D20980.028 Rev C – DCN 21617

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Change Log

Introduction

This Change Log is to document differences between firmware versions for the CV-LS.

Downloads

All data sheets, manuals, firmware updates, and example software can be downloaded at:

http://moritex.com/products/mv/light_sources

Comments

We welcome your feature requests and comments about this document.

You can reach us by e-mail at machine.vision@moritex.com

Change Log

V1.00

Initial Release of Firmware

V1.10

❖ Legacy Commands

- Fixed math when reading back equalizer settings
 - &ED?\r
- Fixed bug where some commands from the legacy parser would not accept a '?' when querying values.
 - &ADD?\r
 - &AED?\r
 - &AGD?\r
 - &AID?\r
 - &ASD?\r
- Fixed bug in host name command that could cause a crash under certain conditions.
 - &AHx\r
- Fixed bug where the multichannel queries always returned the value for channel 1 only.
 - &PD#,?\r
 - &PO#,?\r
 - &RD#,?\r
 - &RP#,?\r
- Added commands to change login settings
 - &HTE(#{,?})\r
 - &HT(#{,?})\r
 - &HRA(#{,?})\r
 - &HRC(#{,?})\r
 - &HS(#{,?})\r
 - &HLF(#{,?})\r
 - &HLM(#{,?})\r

❖ Binary Socket

- Added additional commands to the binary socket.
 - SYSTEM_FIRMWARE_VERSION
 - SYSTEM_SETTINGS_GET
 - SYSTEM_UART_RESTART
 - SYSTEM_LOGIN_TIMEOUT_ENABLE
 - SYSTEM_LOGIN_TIMEOUT_MINUTES
 - SYSTEM_LOGIN_REQUIRE_ADMIN
 - SYSTEM_LOGIN_REQUIRE_USER
 - SYSTEM_LOGIN_ALLOW_REMEMBER_PASSWORD
 - SYSTEM_LOCKOUT_FRONT_CONTROLS_ENABLED
 - SYSTEM_LOCKOUT_MULTIPORT_CONTROLS_ENABLED
 - SYSTEM_NETWORK_HOSTNAME
 - SYSTEM_NETWORK_DHCP_ENABLED
 - SYSTEM_NETWORK_IP_ADDRESS
 - SYSTEM_NETWORK_MASK
 - SYSTEM_NETWORK_GATEWAY
 - SYSTEM_NETWORK_PRIMARY_DNS
 - SYSTEM_NETWORK_SECONDARY_DNS
 - SYSTEM_NETWORK_RESTART
 - SYSTEM_SOCKET_LEGACY_PORT
 - SYSTEM_SOCKET_LEGACY_ENABLED
 - SYSTEM_SOCKET_BINARY_PORT
 - SYSTEM_SOCKET_BINARY_ENABLED
 - SYSTEM_UART_BAUD_RATE_INDEX
 - SYSTEM_UART_STOP_BITS
 - SYSTEM_UART_PARITY
 - SYSTEM_UART_RESTART
 - SYSTEM_LOGS_CLEAR
 - SYSTEM_LOGS_READ
 - SYSTEM_SOCKET_CONNECTION_LEGACY_IP
 - SYSTEM_SOCKET_CONNECTION_LEGACY_KICK
 - SYSTEM_SOCKET_CONNECTION_BINARY_IP
 - SYSTEM_SOCKET_CONNECTION_BINARY_KICK
- Enhanced functionality of the system status poller to indicate which level the user is logged in as for displaying correct controls in the GUI.
- Added command length checks to all commands as additional error checking.

V1.11

- ❖ Legacy Commands
 - Fixed bug where single channel continuous strobe duty cycle query returned channel 4 value.
 - &RD?\r
 - Added commands
 - &M?\r
- ❖ Fixed bug where triggered strobe was not functioning correctly under all conditions.
- ❖ Fixed bug where the TCP/IP stack could hang under some power up conditions.
- ❖ Increased hysteresis on analog inputs when they are not the active control source.

V1.12

- ❖ Behavior Update: When settings are stored with the Front Knob as the active control interface, the unit will use the knob's starting position for initial light output. Prior to this update, the knob would not change the set power until moved after a power up of the PCB.
- ❖ Behavior Update: Legacy command interfaces (USB, RS232, Legacy Socket) will only take over the controlling interface when setting values. This will allow software to query current values without taking control from other interfaces.
- ❖ Added poll command for System Status and Settings pages. See GUI source code for how the commands can be integrated into a system for continuous status updates.

V1.14

- ❖ Bug Fix: There was the possibility to get a flash of light when turning on the unit for the first time when set to an on state in settings. Because of a short ADC training period upon first turn on, the settings would turn the LED on even when the knob was turned to 0.
- ❖ Bug Fix: INI upload through the web interface now works correctly.
- ❖ Behavior Update: Some commands were still taking control of the interface when not changing values. When monitoring status through digital interfaces, it would move control of the unit to the digital interface. Now the only commands that will take control of the interface are ones that directly modify how the light is operating. System settings such as network settings do not take control of the interface.
- ❖ Behavior Update: When using ganged trigger in quad channel mode, unit did not respond as expected when some input pins were set to active high, and other to active low. Use Analog Input Pin 1 for ganged trigger and channels will behave as indicated with their active high/low setting.
- ❖ Behavior Update: INI files now contain a command to set which interface is active.
- ❖ Behavior Update: The Ethernet Announce feature of the units will report their full status in the return packet. This will allow software to query the status of all units on the network in a single command.
- ❖ Bug Fix: Added more error checking to INI upload to better alert the user when there are incorrect portions of the file.
- ❖ Bug Fix: When setting the strobe duty cycle, the return value was incorrect. The response now shows the value that was sent to the unit.
- ❖ Legacy Commands
 - Add Command to remotely change the active interface.
 - &M#\r
 - Update Command Interface queries to return a single digit
 - &M?
 - &M\r
 - Add commands to individually poll status values
 - &?BM
 - &?GS
 - &?LM
 - &?SM
 - &?SU
 - &?ST
 - &?VIS
 - &?VOS
 - &ESD
 - &ZM

Change Log

- Add commands to allow firmware upload, INI Import/Export, and Exception Log downloading. These functions are accessible through the SCHOTT.CVLS dll.
- ❖ Binary Commands
 - Bug Fix: Equalizer Output Power Query was off by a multiple of 10. Response is now the correct value to be used with the CV-LS Dashboard.
 - Add command to query the number of exceptions logs present on the system.
 - Add command to query the number of pages for an INI download.