



Firmware Version: V3.03.04
Prom Code Version:
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Content:

Upgrading Instructions:..... **Error! Bookmark not defined.**
New Features:..... 2
Problems Fixed: 2
Known Issues: 3
Related Documentation: 3

Revision History and System Requirement:

Firmware Version	Date	Model	Hardware Version
V1.00	2010/12/22	DCS-7110	A1
V1.10	2012/8/01	DCS-7110	A2
V1.20	2012/8/31	DCS-7110	A3
V3.00	2013/1/9	DCS-7110	B1
V3.01	2015/10/15	DCS-7110	B1
V3.02	2015/01/25	DCS-7110	B2
V3.03	2017/05/03	DCS-7110	B2

Upgrading Instructions:

Follow the steps below to upgrade the firmware:

1. Log-in camera web UI and enter setup/Maintenance/Firmware upgrade
2. Click Browse... and specify the firmware file.
3. Click Upgrade. The camera starts to upgrade and will reboot automatically when the upgrade completes.

New Features:

Fireware Version	New Features
V1.10	Support PPPoE CHAP.
V1.10	Approval by ONVIF test tool v1.02.4.
V1.20	Support NIPCA motion detection cgi.
V3.00	<ol style="list-style-type: none"> 1. Support 1920x1080 for HW B1 version. 2. Camera Name & Page Title change to 64 Bytes.

Problems Fixed:

Firmware Version	Problems Fixed
V1.10	<ol style="list-style-type: none"> 1. D-Track no. DBG11060237 & DRU20110614000005, camera doesn't respond by the default IP address. 2. Image noise issue in night mode.
V1.20	<ol style="list-style-type: none"> 1. DBG10120098 : Add default icon in Image Settings (Profile 1). 2. DBG11110304 : After disable DUT HTTPS secure connection, DUT redirect to HTTP webpage with HTTPS port. 3. DBG11110317 : After change logo graph, the title name would overlap the left logo graph in live view page.

	<p>4. DBG11110318 : The copy button in HTML Code Examples page didn't work.</p> <p>5. DBG12010013: When change DUT HTTP/RTSP port to 8081/5544, browse DUT H.264 using QuickTime plugin HTML code example by Firefox would show connection failed.</p> <p>6. DBG11100155 : After firmware upgrade the logo graph settings would disappear.</p> <p>7. DBG11100146 : Recording notify message file didn't show the right folder path of network storage server. (Remove the path information)</p> <p>8. DBG11110280 : The values of default and output frame size setting cannot be synchronized.</p>
V3.00	<p>1. Change CBR max. option from 6M to 8M for saving bandwidth.</p> <p>2. IR sometimes has inconsistent situation. (Display shows Day mode, IR LEDs are ON at the same time)</p> <p>3. When create HTTPS certification, popup Certificate Request window has chance to show can't find home page.</p> <p>4. Remove "one hour" in updating interval of NTP.</p>
V3.01	<p>1. Change to 2015 version Digital Signature.</p> <p>2. Security holes issues.</p> <ol style="list-style-type: none"> a. RTSP authentication. b. Slowloris HTTP DoS. c. Password Stored in Web Page. d. Open SSL binary transmitting. <p>3. Disable SIP port, FTP port, SSL v3.0.</p> <p>4. Change RTSP default authentication to Basic.</p> <p>5. Show alert message if User use Chrome v45 and above.</p>
V3.02	<p>1. Change default streaming for Chrome use "MJPEG".</p> <p>2. Update Windows IE plugin for SHA2 certification. (ActiveX)</p> <p>3. Security holes issues Fix:</p> <ol style="list-style-type: none"> a. Update OpenSSL Library to 1.01h b. Fix TLS/SSL Server Supports Weak Cipher Algorithms c. Add CSRF protection d. Change RTSP authorization. e. Clear useless handle event message log post. f. Fix Brute Force attack
V3.03.01	<p>1. Security issues Fix:</p> <ol style="list-style-type: none"> a. Delete telnet cgi b. Add and Link OpenSSL lib 1.0.1t c. HTTPS SHA-2, Certificate Signature Algorithm SHA-2 d. XSS protect: All fields on webpage and NIPCA, follow below rules: (1) Webpage cannot allow user to input '<', '>', '%', '(', ')', '&' (2) NIPCA cannot allow user to input '<', '>', '%', '(', ')', '&' And return bad request 400. Except NIPCA allow user to input %20 <p>2. All webpage contain streaming can be watched by IE10 and IE11</p>
V3.03.03	<p>1. Fix OOM issue caused by LANDAP (Modified by Max)</p> <ul style="list-style-type: none"> - Root cause: The system will fork a new process(LANDAP) to handle each broadcast message, however, the system will OOM(out-of-memory) if there are lots of broadcast messages in the LAN, especially in a burst of broadcast. - Resolved: Don't fork new process to handle broadcast message.
V3.03.04	<p>1. Fix that IP address field of LANDAP is not updated when IP address changes.</p>

Known Issues:

Firmware Version	Known Issues
V3.00	<ol style="list-style-type: none"> 1. DBG13120167: Stopped working in IE10 browser during endurance test. 2. DBG13120169: DCS-100 often disconnected to DUT and recording discontinuously during endurance test. 3. DBG13120173: The endurance test recording uploaded to SMB server DNS-1200-5 would lag.
V3.01	<ol style="list-style-type: none"> 1. Security Holes <ol style="list-style-type: none"> a. SSL / TLS Renegotiation DoS b. WebVideoActiveX Integer Overflow c. Unvalidated Redirects d. Command Injection e. Cross Site Scripting f. TLS update to v1.2 g. OpenSSL CCS Injection h. CSRF option i. RTSP can't support VLC j. Change Brute force attack blocking time to 5 min

Related Documentation:

N/A