

GSC36XX Firmware Release Notes

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FIRMWARE VERSION 1.0.1.19

PRODUCT NAME

GSC36XX - GSC3610/GSC3615 (*HW Supported: 1.0A, 1.0B, 1.0C*)

DATE

07/28/2020

SUMMARY OF UPDATE

The main purpose of this release is bug fixes and features enhancement.

FIRMWARE APPLIES TO BELOW HW VERSION ONLY

HW version	FW	Comments
GSC36XX HW1.0C	YES	
GSC36XX HW1.0B	YES	
GSC36XX HW1.0A	YES	

ENHANCEMENT

- Added WDR Support
- Added 720p(HD), D1 resolution support in 2nd stream.
- Added SIP UPnP NAT Traversal

BUG FIX

- Fixed Chrome/Firefox cannot preview/liveview H.265 video
- Fixed video is fuzzy when there is a motion
- Fixed device lost webUI access when enabled Anonymous LiveView and viewing video via API
- Fixed audio distorted or lost sometimes when using MJPEG and recording with MS IE
- Fixed IE cannot use the plugin to preview/liveview video
- Fixed video frozen then resume when alarm triggered with email snapshot
- Fixed RTSP stream not disconnected after changing RTSP password
- Fixed certificate cannot be uploaded via IE browser
- Fixed sometimes webUI automatically log out
- Fixed sometimes no alarm record stored at ONVIF NVR

NEW P-VALUE

P15513	Video_Audio_Settings.CMOS_Settings.WDR Value: 0 / 1. 0: Disable; 1: Enable.
P43064	Account.Account_1.UPnP_NAT_Traversal Value: 0 / 1. 0: Disable; 1: Enable.
P43065	Account.Account_1.UPnP_NAT_Traversal Value: 0 / 1. 0: Disable; 1: Enable.
P43066	Account.Account_1.UPnP_NAT_Traversal Value: 0 / 1. 0: Disable; 1: Enable.
P43067	Account.Account_1.UPnP_NAT_Traversal Value: 0 / 1. 0: Disable; 1: Enable.

MODIFIED P-VALUE

P12315	Video_Audio_Settings.Video_Settings.Stream_1.Bit_Rate Value: 512/1024/2048/3072 → 512/1024/2048/3072/4096/6144
P12707	Video_Audio_Settings.Video_Settings.Stream_2.Resolution Value: 1(640*480)/1009(352*288)/0(320*240) → 1022(1280*720/1016(704*576))/1(640*480)/1009(352*288)/0(320*240)
P12708	Video_Audio_Settings.Video_Settings.Stream_2.Bit_Rate Value: 256/512/1024/2048 → 256/512/1024/2048/3072
P15480	Account.Account_1.stream 0:stream1 1:stream2 → 1:stream1 0:stream2
P8000	Account.Account_2.stream 0:stream1 1:stream2 → 1:stream1 0:stream2
P15481	Account.Account_3.stream 0:stream1 1:stream2 → 1:stream1 0:stream2
P15482	Account.Account_4.stream 0:stream1 1:stream2 → 1:stream1 0:stream2
P8003	Phone_Settings.SIP_Proxy_Compatibility_Mode 0:Disable 1:Enable → 1:Disable 0:Enable

NEW HTTP API:

- **P15513**
GET:[http|https]://<servername>/goform/config?cmd=get&type=cmos
SET:[http|https]://<servername>/goform/config?cmd=set&P15513=<value>
- **P43064/43065/43066/43067**
GET:[http|https]://<servername>/goform/config?cmd=get&type=sip
SET:[http|https]://<servername>/goform/config?cmd=set&P43064=<value>
SET:[http|https]://<servername>/goform/config?cmd=set&P43065=<value>
SET:[http|https]://<servername>/goform/config?cmd=set&P43066=<value>
SET:[http|https]://<servername>/goform/config?cmd=set&P43067=<value>

Released HTTP API documentation can be downloaded from here: (pending)

http://www.grandstream.com/sites/default/files/Resources/gsc36xx_http_api.pdf

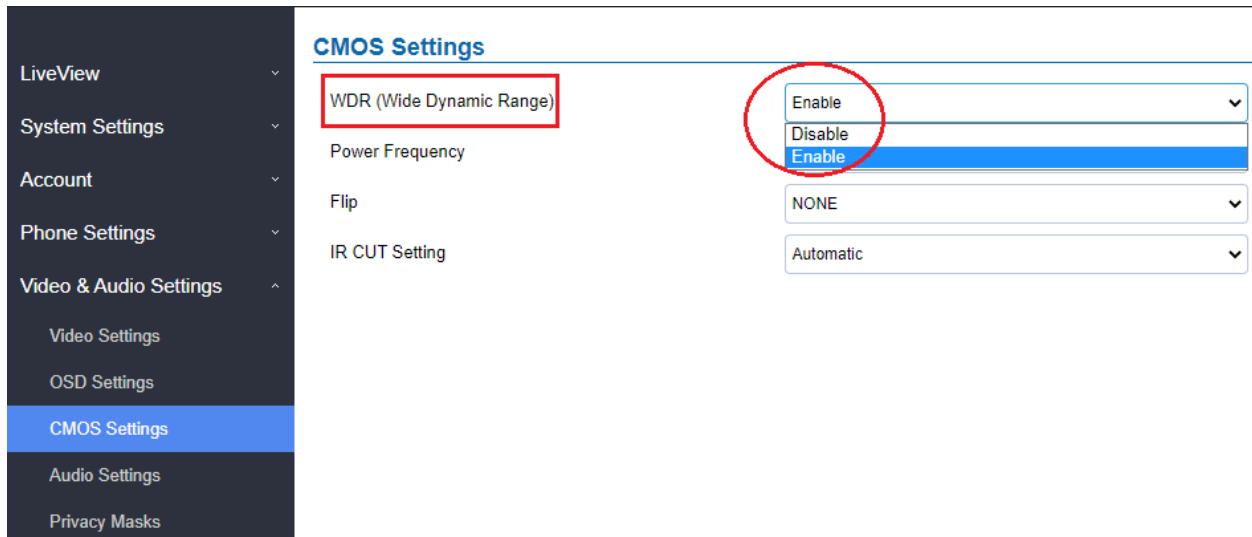
NEW FEATURES OVERVIEW

This section lists major new features or improvement and describes how to use them from the user's point of view.

WDR SUPPORT

- **Web Configuration**

This option can be found under device web UI → Video & Audio Settings → CMOS Settings:



The screenshot displays the 'CMOS Settings' page in the device web UI. On the left is a dark sidebar menu with options: LiveView, System Settings, Account, Phone Settings, Video & Audio Settings (expanded), Video Settings, OSD Settings, CMOS Settings (highlighted in blue), Audio Settings, and Privacy Masks. The main content area is titled 'CMOS Settings' and contains four settings: 'WDR (Wide Dynamic Range)' (highlighted with a red box), 'Power Frequency', 'Flip', and 'IR CUT Setting'. The 'WDR' dropdown menu is open, showing three options: 'Enable' (circled in red), 'Disable', and 'Enable' (highlighted in blue). The other settings have dropdown menus with 'NONE' and 'Automatic' as visible options.

- **Functionality**

This feature enhancement will allow users to configure the IP Camera in some special lighting environment like back light, strong contrast scene to have a better image.

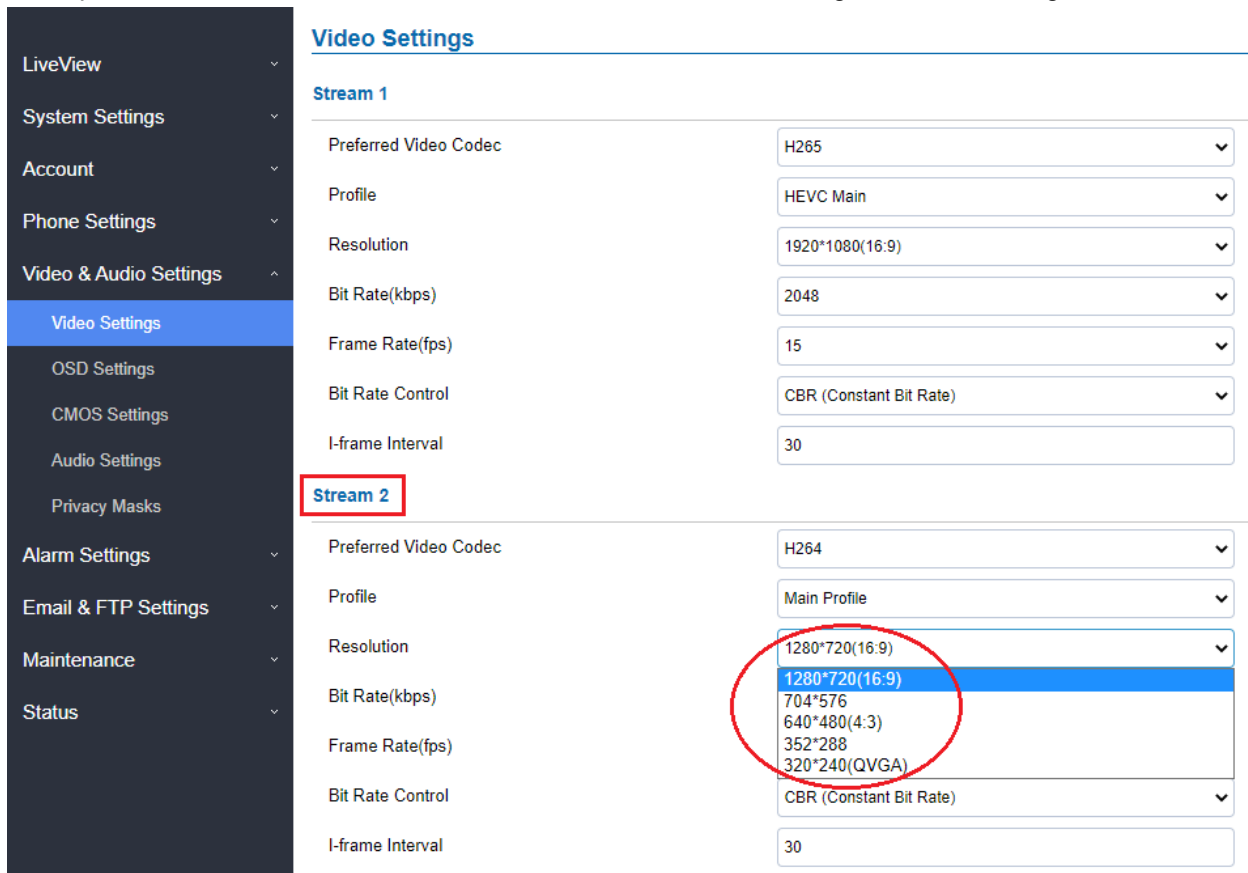
The WDR (Wide Dynamic Range) is e-WDR, meaning the IP Camera combining two images based on bright and dark light condition and combined to form the image.

This WDR may help some light condition environment, but will not be effective at all light conditions or application scenes.

ADD 720p(HD), D1 RESOLUTION IN 2ND STREAM

- **Web Configuration**

This option can be found under device web UI → Video & Audio Settings → Video Settings:



Video Settings	
Stream 1	
Preferred Video Codec	H265
Profile	HEVC Main
Resolution	1920*1080(16:9)
Bit Rate(kbps)	2048
Frame Rate(fps)	15
Bit Rate Control	CBR (Constant Bit Rate)
I-frame Interval	30
Stream 2	
Preferred Video Codec	H264
Profile	Main Profile
Resolution	1280*720(16:9) 1280*720(16:9) 704*576 640*480(4:3) 352*288 320*240(QVGA)
Bit Rate(kbps)	
Frame Rate(fps)	
Bit Rate Control	CBR (Constant Bit Rate)
I-frame Interval	30

- **Functionality**

This feature is implemented based on feedback from field customers.

Several resolutions have been added to 2nd stream, to allow users selecting based on application requirement and bandwidth availability, to use the resolution for SIP call, RTSP, Recording, etc.

SIP UPNP NAT TRAVERSAL

- **Web Configuration**

This option can be found under device web UI → Account → Account X → SIP Advanced Settings:

SIP Advanced Settings		
Registration Expiration(m)		60
Re-register before Expiration(s)		0
Local SIP Port		5060
SIP Transport		UDP
Stream		Stream 2
Unregister On Reboot		<input checked="" type="checkbox"/>
NAT Traversal		Auto
UPnP NAT Traversal		<input checked="" type="checkbox"/>
Enable SRTP		Disabled
Special Feature		Standard
Outbound Proxy Mode		In Route
Enable RTCP		Disabled
H.264 Payload Type		99
Accept Incoming SIP from Proxy Only		<input type="checkbox"/>

- **Functionality**

By default, this setting is disabled.

If user has SIP Proxy and Router support uPnP NAT Traversal, user can enable this feature by click to enable it, then the IP Camera can use UPnP NAT Traversal and automatically process the NAT issue.

For detailed information, please refer to User Manual and Resource Center:

- **GSC36XX User Manual:**
http://www.grandstream.com/sites/default/files/Resources/GSC36XX_usermanual.pdf
- **HTTP API** documentation can be downloaded from here:
http://www.grandstream.com/sites/default/files/Resources/gsc36xx_http_api.pdf