

# **BU-3128**

3-Megapixel motorized IR PoE IPCAM User Manual

www.airlive.com





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#### **FCC Statement**

#### **Federal Communication Commission Interference Statement**

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the A user is encouraged to try to correct the interference by one of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

#### FCC Caution

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment. This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation. For product available in the USA/Canada market, only channel 1~11 can be operated. Selection of other channels is not possible.

This device and its antenna(s) must not be co-located or operation in conjunction with any other antenna or transmitter.

#### FCC Radiation Exposure Statement

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

#### WEEE Marking Warning:

The crossed out wheeled bin indicates the product must not be disposed together with household waste. For the sake of the environment, the product should only be given to entities involved in the reception of waste electronic and electrical equipment. The lists of entities entitled to receive used equipment can be found on the websites of municipalities. Some components of devices such as external wiring, circuit boards and liquid crystal displays have a negative impact on the environment.



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1



**Overview** 

This user manual explains how to operate this camera from a computer. A user should read this manual completely and carefully before you operate the device.

# **1.1 Introduction**

AirLive BU-3128 is a 3.0 Megapixels network camera which is designed for vandal surveillance and security applications. This 3.0MP IP camera offers many improvements in image quality when comparing to conventional surveillance cameras. Users are able to view live video streaming over the Internet, and it is not only one of benefits for using AirLive BU-3128 IP cameras. It is also designed to offer high-performance surveillance by being equipped with PoE switch which allows power and data to be transmitted via a single Ethernet cable. This useful function provides an easier installation, lower cabling costs and allows placement of AirLive PoE cameras in locations without access to electrical source. With the IP66 water proof housing, AirLive BU-3128 suits for environments such as office, elevators, campus, chain stores, and boutique stores.



### 1.2 Features

This manual will illustrate the steps of how to setup and operate this IP camera, so you'll also soon be enjoying the benefits of these product features:

- □ IP-66 Protection
- □ Support 30FPS at 2048x1536.
- □ 802.3af PoE Port.
- Low Lux Sensor for Ultra Bright Images.
- □ 40m IR LEDs.
- □ Mechanical IR-Cut Filter Removable.
- □ Up to 128 GB MicroSD Card Slot for Local Storage.
- Two-Way Audio, DI/DO.
- □ Ture WDR Enhanced.
- □ Video Stabilization.

## **1.3 Product Specification**

Model		BU-3128	
	Camera Type	Bullet Type	
	Max Resolution	2048x1536	
	Image Sensor	1/2.8" CMOS Sensor	
		Motorized Lens	
	Lens Type	2.8~12mm, F1.6	
Camera	Night Vision	Yes	
Camera	Max IR Distance	40m	
	Minimum Illumiantion	0.01 Lux@F1.6 (Color)	
		0.001 Lux@F1.6 (B/W)	
	Mechanical IR-Cut Filter	Yes	
	Viewing Angle	H :98°	
		D :116°	
	Video Type	H.264	
		MJPEG	
Video	Video Profile	Yes	
VILLEO	Resolution and Frame Rate	2048x1536 @30fps	
		1920x1080@30fps	
		1280x720@30fps	



		640x480@30fps
		640x360@30fps
		320x240@30fps
	Stream	Streaming over UDP, TCP or HTTP
		Configurable frame rate and bandwidth
		Support both CBR and VBR
	Region of Interest (ROI)	Yes
	Image Processing	AE, BLC, AWB
	3	Brightness, sharpness, contrast,
		saturation
		Mirror/Flip
		Privacy Masks
		Text, time and Date
	Digital Zoom	Yes
	Audio Encoder	G.711_a-law
		G.711_u-law
Audio		AMR
	Audio Streaming	Two-way
-	Audio Input/Output	1 Lin-in / 1 Lin-out
	Ethernet	Ethernet(10/100 Base-T), RJ-45
	PoE	IEEE802.3af
Network	Suported Protocols	IPv4, IPv6, Bonjour, TCP/ IP, DHCP, DNS, DynDNS, PPPoE, ARP, ICMP, FTP, SMTP, NTP, UPnP, RTSP, RTP, RTCP, HTTP, HTTPS, SSL, TCP, UDP
-	Security	Password protection
		IP filter, HTTPS encrypted data transmission
	Users	Up to 10 simultaneous users
	Power LED	Yellow Color
LED and	Link/Act.LED	Orange Color
Button	Reset Button	Reboot and Factory Default (Push and Hold Over 10 Sec)
	System ROM	16MB
	System RAM	512MB
	Power Supply	Optional (12V DC 1A)
General	Power Consumption	Max 7.2 Waltts
	Connector	RJ-45 10BaseT/100BaseTX
		Audio(1in/1out), DI/DO(2 in/1 out), DC jack, Ethenet/Poe



	Environment	Starting Temperature: -10°~60° Working Temerature:-30°~60°	
		Humidity:10~100% RH	
	Ingress Protection	IP66 rated weatherproof housing	
	SD card Slot	Micro SD up to 128 GB	
	Dimension	$\varphi$ 96 x 263mm, include. bracket	
	Even Triggers	Motion detection, Digital Input, Tamper Detection, Periodically Time, Audio Detection	
	Motion Detection	2	
System Integration	Alarm Output	Network Storage, SD card, FTP, SMTP, HTTPs, DIDO	
	Application Programming Interface	OnVIF2.4, Profile S	
	Video Buffer	Pre- and Post- alarm buffering	
	Continuous recording	Yes	
Viewing	OS	Windows XP/7/8/8.1/10, MAC OS, Linux	
System	Browser	Internet Explorer 9 / 10 / 11, Chrome, Firefox, Safari	

## **1.4 System Requirement**

For normal operation and viewing of the network camera, it's recommended that your system meets these minimum requirements for proper operation:

Item	Requirements
CPU	Pentium-4 2.0 GHz or higher
VGA Monitor	Resolution1024 x 768 or higher
RAM	1 GB or more
Operating System	Windows XP, Vista, 7, 8
Web Browser	Internet Explorer 9 or later; Apple Safari ; Firefox ; Google Chrome

**Note:** Please keep updating the latest Windows software and service package. (Ex: Net Framework, Windows Media Player, Enhance ActiveX Security)



# 2

# Package Contents and Installation

# 2.1 Package Contents

User can find the following items in the package as below:

- 1. AirLive BU-3128 is the main element of the product.
- 2. Quick Start Guide provides important information and instructions for installing this device.
- Accessory Package (Screws / Plastic Anchors/ Tool Kit (Screw, Plastic Anchors, Flathead screwdriver, HEX Wrench, Power Plug Adapter, Waterproof main body, Cable Tie.)/ GPIO Adapter)

Note: The power adapter is optional.

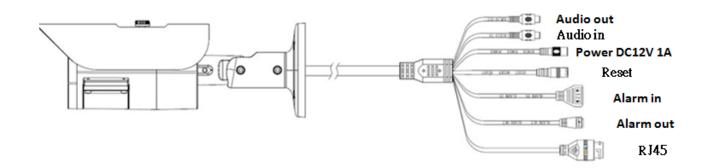
# 2.2 Connections

#### **Power Source Requirement**

This camera can work with 802.3af PoE switches. However, if you don't have the PoE switch, you can use a power adapter to provide power to camera.

#### Connector

There are various connectors of AirLive BU-3128 as shown in the figures below. Please refer to the diagrams and tables for using of each connector.





1. DC Jack: The input power is DC 12V.

If you don't have the PoE switch, you can use a power adapter to provide power to camera.

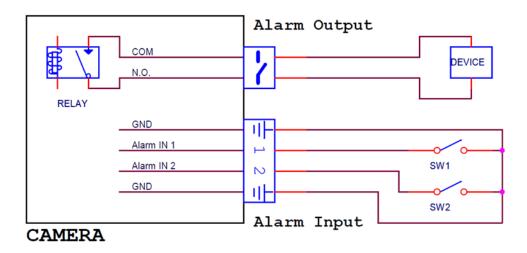
2. PoE/RJ45 LAN Socket: Connect to PC or Hub/Switch.

This Ethernet port built N-Way protocol can detect or negotiate the transmission speed of the network automatically. Please use Category 5 cable to connect the Network Camera to a 100Mbps Fast Ethernet network switch or hub.

#### 3. Alarm Digital I/O:

AirLive BU-3128 supports 2 digital alarm inputs and 1 digital alarm output. Please make sure the alarm connections are properly wired. Please refer to the pin definition table below.

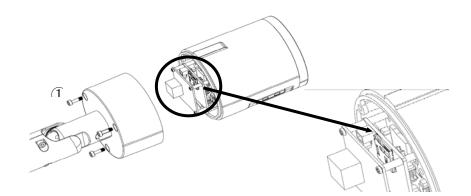
Definition	Description	Max. V/A
Alarm Input 1	Connect to GND to activate, or leave floating/unconnected to deactivate.	5V DC / 50mA
Alarm Input 2	Connect to GND to activate, or leave floating/unconnected to deactivate.	5V DC / 50mA
Alarm Output	Relay contact output. Contact capacity with resistance load.	0.3A at 125V AC or 1A at 30V DC



- 4. Audio Output: Composite video connector.
- 5. Audio Input: Composite video connector.



- 6. Reset Button: This button is used to restore all the factory default settings. Sometimes, restarting the device will make the system back to a normal state.
- 7. MicroSD Card Slot: MicroSD Card Slot allows you to insert a memory card for expansion of storage.



8. LEC indicator: The LED colors are defined below.

LED	Color	Indication
Network	Green	Solid green when network is established.
	Orange	Blink orange when there is network activity.

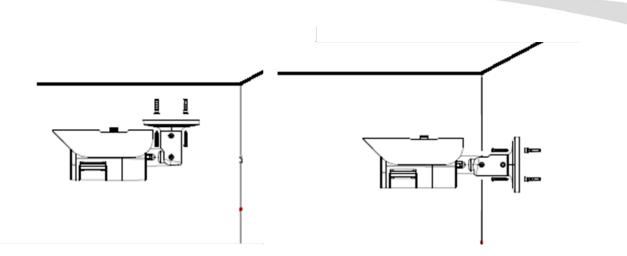
### **2.3 Mounting the Camera**

#### 1. Installation

- Attach the alignment sticker to the wall/ceiling. Drill three holes into the wall/ceiling. Then hammer the supplied plastic anchors into the screw holes and secure the mounting plate with supplied screws.
- Attach the camera to the mounting plate and turn the camera clockwise until the clips snap to the mounting plate.

Note: when the adjustment is finished, please change the desiccant bag in back cover.





#### 2. Adjusting the monitoring direction for the camera

You can adjust the camera zoom in/out by Webpage.



# 2.4 Connect to IP Camera

- 1. Download the Airlive IPWizard from http://fs.airlive.com/firmware/AirLive%20IP%20Wizard%20II%20version1.0.0.3.zip.
- 2. Install Softeware  $\rightarrow$  "AirLive IP Wizard II" to install the configuration tool.
- 3. After completed the installation, run the "Air Live IP Wizard II" to start to search the IP camera.



Air Live IP Wizard II \	/ersion 1.0.0.3	Int	erface : 192.168.1.11	- 🛛
Device Title	IP Address	Port	MAC	
Sea	arching 22%			
SEARCH VIEW LAN WIRELESS EXIT	Device Device Name: Network: DHCP: WiFi: Connection:		User Name: admin Password: ****** Off-Line	

4. The entire detected IP camera will be listed out.

Air Live IP Wizard II	Version 1.0.0.3	Int	erface : 192.168.5.101	
Device Title	IP Address	Port	MAC	
BU-3128	192.168.5.119	80	FF;-:FF;-FF;-FF;-FF;	
SEARCH VIEW LAN WIRELESS EXIT	Network: V DHCP: WiFi: Ether	U-3128 Vired ON rnet Only	User Name: admin Password: ****** Off-Line	

5. If the Camera's IP address is in the same IP segment as your LAN, select the founded IP Camera and double click on the item. Then, the default browser will show up and connect to the IP camera's Web automatically.



# 3

# Using IP Camera via Web Browser

## 3.1 Windows Web Browser

- 1. Open your web browser and enter the IP address or host name of the IP camera in the Location / Address field of your browser.
- 2. Use the default account "admin" and default password "airlive".

連線到 192.168.1	.100	? 🛛
<b>R</b>		GA
密碼。		0 需要使用者名稱及 及密碼以不安全的方
使用者名稱(U): 密碼(P):	<ul> <li></li></ul>	<b>▼</b> 5®
	確定	取消

**Note:** The default user name "**admin**" and the password "**airlive**" are the default values. You can change them in the Account Menu. (Please check "Configuration  $\rightarrow$  Basic  $\rightarrow$  Account")

3. The monitor image will be displayed in your browser. In the main window, you can configure the settings you want. For more details, please refer to the following chapters.



#### 3.2 MAC OS using Safari Browse.

#### 1. Select Safari Icon.



- 2. Click **Bonjour function** and select the camera you wish to access.
- 3. Enter name and password to login to the IP camera. (Default is admin / airlive)



4. Live video will display in the center of your web browser.



# 4

# Operating the Network Camera

Start-up screen will be shown once you access into the IP camera. In the left side, you can control Live View function as below:

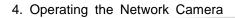


# 4.1 Live View

Toolbar	Function
	Click this button to take you back to the camera home page where you can live view the video



· · · · · · · · · · · · · · · · · · ·		
	Click this button to open the administrator	
ļ	menu page, which can set up all the configuration	
	configuration	Information
		Basic Setup
×		Live View
		Playback
		C Event
		System
0	Click this button to pause or resume from pause the li The function is also available in VLC mode when you	
Õ	Clicking this button will stop the video stream and the (off). The function is also available in VLC mode when	
0	Click on the Record button, if you wish to record the liv hard drive. When selected, a prompt will request you which you want to store the video. Click <b>OK</b> to begin the recording. The Record button si that the recording is active. Click it again to stop the re Note: This function is only available in MS Internet Ex systems.	to specify the folder in tarts flashing, indicating ecording.
	Use this button to take a snapshot of the video. Clickin window showing the captured frame. Save the image <b>Image</b> button. The function is also available in VLC mode when you	by clicking on the Save
۲	(wide-angle). The more you move the slider toward "T," the further you zoom in and details appear larger. It is normal behavior that the image quality is reduced when using the digital zoom function. Digital Zoom is only available in	as an overlay on top of the
	Click this button to view the video in full screen mode. video is stretched to fit the entire screen and all contro elements are no longer displayed. To return from full s ESC key on your keyboard. You can also right- or left- with your mouse. The function is also available in VLC mode when you	ol graphics and window screen mode, press the -click any part of the image
Live View	Returns the user to the main live video page.	
Client Setting	different video settings. You can define	rofile Profile1 V
	these profiles in the administrator menu,	w Size Fit Screen V
		otocol HTTP V





	<b>View Size</b> - There are two choices here. "Fit Screen" will keep the video small so that it will always fit into the view port of the live video page. "Full Screen" is		
	actually not full screen at all, but it displays the video stream at it's original size. So, if you select a profile that displays 1080p contents and select full screen for		
	the view size, the video will be rendered at 1920 x 1080 pixels on your screen.		
	Protocol- Select the transfer protocol here. Click this button and the Focus dialog will open		
	Zoom: Zoom in and Zoom out function for image large or small.		
	Focus: You can change the focal length		
	Refocus: Auto refocus.		
	Zoom		
	$\Theta_{\mathbf{x}}$ $\mathbf{x}$ $\mathbf{x}$ $\mathbf{y}$ $\mathbf{y}$ $\mathbf{x}$		
Focus			
10005			
	Focus		
	💞 «< < > >> 🕰		
	Re-Focus		
1			

# 4.2 Configuration

Click "Configuration" for the camera detail settings. For more information, please refer to Chapter 5.





# 5

# Configuration

Click the "Configuration" to display sub-menus included:

Information / Basic Setup / Live View / Playback / Even / System.

<b>Air Live</b>	(www.airlive.com) BU-3128 3-Megapixel motorized IR PoE IPCAM
() Information	
Basic Setup	
🛛 Live View	
🔘 Playback	
🔘 Event	
🔘 System	
l	

# 5.1 Information

The camera's administrator menu allows you to configure all aspects of your network camera. This page provides a complete overview of the status of your network camera



Information Basic Setup ILive View Playback Information Product Information BU-3128 3-Megapixel motorized IR PoE IPCAM Firmware Version D1_C037	<b>Air Live</b>		www.airlive.co BU-3128 3-Megapixel motorized IR PoE IPC
Information         Box4: Stup         Live View         Product Name         BU-3128 3-Megapixel motorized IR PoE IPCAM         Product Name         Busch Stup         Event         System         Ond Version         QL037         McC Address         Date Time         2017-08-23         Bandwiddh Usage         Receiving = 153 kbps transmitting = 7821kbps         Security         Video Connection         1         Account         1         Account         1         Account         Video Setting         Tage         Video Setting <t< th=""><th></th><th>Tufumutian</th><th></th></t<>		Tufumutian	
Hadic Setup Live View Product Name BU-3128 3-Megapixel motorized IR POE IPCAM Firmware Date Pri Jul 21 16:54:15 CST 2017 Ould Varian 0	<ul> <li>Information</li> </ul>		
Lite View Firmware Version Firmware Version Firmware Version Firmware Date Firmware Da	OBasic Setup		
<pre>Prevat Firmware Date Fir Jul 21 16:54:15 CST 2017 Onvoid Version System NAC.Address Date Time 2017-08-23 14:40:33 Bandwidth Usage Receiving = 153 kbps transmitting = 7821kbps Security Video Connection Account Anonymous Viewer Disabled HTTPS Disabled PAdress Filter Disabled Video Setting Narge Retarted: None, Narge Retarted: Narge Retarted: Narge Retarted: Narge Retarted: Narge Retarted: Narge Retarte</pre>	Live View		
System       Onvif Version       2.40         MAC Address       D0:1B:FE:07:1B:23         Date Time       2017-08-23       14:40:33         Bandwidth Usage       Receiving = 153 kbps transmitting = 7821kbps         Security       Video Connection       1         Account       1       1         Anonymous Viewer       Disabled       HTTPS         Disabled       PAddress Filter       Disabled         Video Setting       Image       Paddress Filter         Date Time       Disabled       Video Setting         Image Rotated: None, Image Rotated: None, Video Setting       Video Setting         Dar / Night       IR Cos Filter ModelAuto, IR Cos Filte	D Playback		
Note of the second s	DEvent		
Date Time 2017-08-23 14:40:33 Bandwidth Usage Receiving = 153 kbps transmitting = 7821kbps Security Video Connection 1 Account 1 Anonymous Viewer Disabled HTTPS Disabled P Address Filter Disabled Udeo Setting Image Micros/Filter Mode: Auto, IR Out Filter Mode: Auto, IR Out Filter Mode: Auto, IR Out Filter Mode: Auto, IR Out Filter Switch Delay:1s, • Perf& Action, B1/2-Digital Outpot 1/2, I-BK, P=TP Opload, S-METP notification, B=TTP notification, P Hettvert Storage, SD=20 Carl, PP-Pash notification Network TCP/P [122.168.5.125, HTTP Port:80 PPodE Disabled Una Enabled Bonjour Enabled, Antive-00:1B:FE:07:1B:23 PTP For: Among Storage, SD=20, Automication: Disabled. H3S Configuration: Video.pro2, Automication: Disabled. H3S Configuration: Video.pro2, Automication: Disabled.	System	Onvif Version	2.40
Bandwidth Usage       Receiving = 153 kkps transmitting = 7821kkps         Security       Video Connection         Account       1         Anonymous Viewer       Disabled         HTPS       Disabled         IP Address Filter       Disabled         Video Setting       Image         Image       Disabled         Video Setting       Image         Image       Disabled         Video Cip Format: Profile1,       Image         Day / Might       If Cut Filter Mode:Auto,         If Cut Filter Mode:Auto,       If Cut Filter Switch Delayris,         In Cut Filter Switch Delayris,       Image         * P-PTF Action, DH/2-Digital Output 1/2, I-IR, F=TF Upload,         S=MTF Dotification, B=HTTP notification,         Betwork Storage, SD=D Card, PH=Ant Diffication         TCP/IP       192.168.5.125 , HTTP Port:80         PProc       Disabled         UnP E       Enabled         Bonjour       Enabled         Risp Configuration: Video.prof; 554,         RTSP       Pett Bener=16         Pett Bener=16       Store=164         RTSP Fort=54       Store=14		MAC Address	00:1B:FE:07:1B:23
Security         Video Connection         Account         Account         Anonymous viewer         Disabled         HTTPS         Disabled         HTTPS         Disabled         Image         Mitror/Flip: More,         Tange Dotted: None,         Tange Dotted: None,         Tange Dotted: None,         Tange Dotted: None,         Video Clip Format: Erofile,         Video Clip Format: Erofile,         Day / Might         If Cut Filter ModelAuto,         If Cut Filter ModelAuto,         If Cut Filter Switch Delay:1s,         If Cut Filter Switch Delay:1s,         Video Clip Format: Erofile,         Video Clip Format: Storage, SM-SD Card, PM-PHah milication         * Herpt Action, B1/2-Digital Oropet 1/2, I-BR, Petrp Bplood,         S-SMP motification, B-MTP motification;         *-Betwork Storage, SM-SD Card, PM-Phah milication         VPRCE       Disabled         UPnp       Enabled         Bongour       Enabled, Alrive-00:1B:FE:07:1B:23         RTSP       Prot         Prot       Stabled, Authenticetion: Disabled, Alrive-00:1B:spled, 21:Spled, 21:Spled, 21:Spled, 21:Spledit, 21:Spledit, 21:Spled, 21:Spledit, 21:Spled, 21:Sp		Date Time	2017-08-23 14:40:33
Video Connection 1 Account 1 Anonymous Viewer Disabled HTTPS Disabled IP Address Filter Disabled Video Setting Tange Video Setting Tange Notated: None, Video City Format: Frofilel, Video City Format: Frofilel, Video City Format: Frofilel, Day / Hight If Out Filter Mode:Auto, IR Out Filter Switch Delay:10, Event List Name Enabled Trigger Action * Schedule pp On Motion Det PN Always * SetWP notification, H=HTP notification, Retwork Storage, SD=SD Card, PH=Push notification Retwork Storage, SD=SD Card, PH=Push notification Retwork Storage, SD=SD Card, PH=Push notification PPoct Disabled UPnP Enabled Storage S000-7959, RTSP Fort: 554, TSP Configuration: Video:pro1, Authentication: Disabled, TSP Configuration: Video:pro2, Authentication: Disabled, TSP Scoresta		Bandwidth Usage	Receiving = 153 kbps transmitting = 7821kbps
Account  Anonymous Viewer Disabled  HTTPS Disabled  JP Address Filter Disabled  Video Setting  Image  Mitrory/Tilp: None, Image Rotated: None, Video Clip Format: Profile1,  Day / Night  ECUF Filter Mode:Auro, IR Cut Filte		Security	
Anonymous Viewer Disabled HTTPS Disabled IP Address Filter Disabled -Video Setting Image Rotated: None, Image Rotated: None, Video Clip Format: Profile1, Day / Night IR Cur Filter Modelatto. IR Cur Filter Modelatto. IR Cur Filter Modelatto. IR Cur Filter Modelatto. IR Cur Filter Modelatto. Revent List Name Enabled Trigger Action * Schedule PP On Motion Det FN Always * P=PTZ Action, DJ/2=Digital Output J/Z, I=IR, P=TTP Upload, S-SMTP notification, BMTTP notification Metwork Storage, SD=SD Card, MP-Num notification Network TCP/IP [192.168.5.125, HTTP Port:80 PPoel Disabled UPAP Enabled Airlive-00:1B:FE:07:1B:23 RTSP Port Mage: S00-799, RTSP Port: 554, RTSP Configuration: Video, prof, Authentication: Disabled: Port		Video Connection	1
HTTPS Disabled P Address Filter Disabled Video Setting Image Mirror/Filp: None, Image Rotated: None, Video Citip Format: Profile, Name Rotated: None, IR Out Filter Mode:Auto, IR Out Filter Switch Delay:1s, <b>-Event List</b> Name Enabled Trigger Action * Schedule Pp On Motion Det PN Always * P-PTZ Action, D1/2-Digital Output 1/2, I-TR, P-PTP Upload, S-SMTP notification, B-HTTP notification, Network TCP/IP 192.168.5.125 , HTTP Port:80 PProE Disabled UPnP Enabled Bonjour Enabled, Airlive-00:1B:FE:07:1B:23 RTSP Port Port		Account	1
HTTPS Disabled P Address Filter Disabled Video Setting Image Mirror/Flip: None, Image Rotated: None, Video Clip Format: Profile1, Day / Night IR Cut Filter Node:Auto, IR Cut Filter Node:Auto, IR Cut Filter Switch Delay:1s, <b>Event List</b> Rame Enabled Trigger Action * Schedule Pp On Motion Det FN Always * P-PTZ Action, D1/2-Digital Output 1/2, I-IR, P-FTP Opload, S-SMTP notification, B-HTTP notification, Network TCP/IP 192.168.5.125 , HTTP Port:80 PProE Disabled UPnP Enabled Bonjour Enabled, Airlive-00:1B:FE:07:1B:23 RTSP Port HTTP Port=80 Port		Anonymous Viewer	Disabled
IP Address Filter       Disabled         Video Setting       Image         Image Bocated: None,       Image Bocated: None,         Image Bocated: None,       Image Bocated: None,         Uideo Setting       Image Bocated: None,         Day / Night       If Cur Filser Mode:Auto,         IR Cur Filser Mode:Auto,       IR Cur Filser Mode:Auto,         IR Cur Filser Switch Delay:18,       Image Bocated: None,         Name       Enabled       Trigger Action * Schedule         PP       On       Motion Det FN       Always         * P-PTZ Action, D1/2-Digital Output 1/2, I-IR, P=FTP Upload,       S-SMTP notification, B=HTTP notification,         Network       TCP/IP       192.168.5.125 , HTTP Port:80       PPPoE         UPnP       Enabled       Om Push notification       Name         RTSP       Disabled       UpnP       Enabled         RTSP       Enabled , Airlive-00:18:FE:07:18:23       RTSP         RTSP       Fort Bange: 5000-7999, RTSP Fort: 554, RTSP Configuration: video.prol, Authentication: Disabled.       Image School (Processing School (Procesing School (Processing School (Processing School (Proc		HTTPS	Disabled
Video Setting Image Mirror/File: None, Jange Rossed: None, Video Clip Format: Frofilel, Day / Night IR Cut Filter Mode:Auto, IR Cut Filter Switch Delay:1s, Event List Name Enabled Trigger Action * Schedule pp On Motion Det FN Always * P-PTT Action, D1/2-Digital Output 1/2, I-IR, P-PTT Upload, S-SMTP notification, H=HTTP notification, Network TCP/IP 192.158.5.125 , HITP Port:80 PPPOE Disabled UnP Enabled Bonjour Enabled , Arlive-O0:18:FE:07:18:23 RTSP Port MITP Port=60 System Log Rost-516 RTSP Port=516			
Image         Mirror/Flip: None,         Image Rotated: Sone,         Video Clip Format: Profile1,         Day / Night         IR Cut Filter Mode:Auto,         IR Cut Filter Mode:Auto,         IR Cut Filter Mode:Auto,         IR Cut Filter Switch Delay:1s,         Event List         Name       Enabled Trigger Action * Schedule         Pp       On         Motion Det FN       Always         * P-PTE Action, Di/2-Digital Dutpat 1/2, I~IR, P=PTP Upload,         S-SMTP notification, B-HTTP notification,         Metwork         TCP/IP         192.168.5.125 , HTTP Port:80         PPPOE         Disabled         UPn P         Enabled         RTSP         Fort Hange: S000-7999, RTSP Port: 554,         RTSP         Fort         ITTP Port=80         System Log Port=514         RTSP         Fort         ITTP Port=814		IP Address Filter	Disabled
Image         Mirror/Flip: None,         Image Rotated: Sone,         Video Clip Format: Profile1,         Day / Night         IR Cut Filter Mode:Auto,         IR Cut Filter Mode:Auto,         IR Cut Filter Switch Delay:1s,         Event List         Name       Enabled Trigger Action * Schedule         Pp       On         Motion Det FN       Always         * P-PTE Action, Di/2-Digital Dutput 1/2, I-IR, P=PTP Upload,         S=SMTP notification, B=HTP notification,         H=Metwork         TCP/IP         ISabled         UPn P         Isabled         Always         PPote         Disabled         UPn P         RTSP         Port         ITTP Port=80         System Log Port=514         RTSP         Port		Video Setting	
Mirror/Flip: None, Inage Rotated: None, Video Clip Formet: Profilel,         Day / Might         IR Cut Filter Mode:Auto, IR Cut Filter Switch Delay:1s,         Event List         Name       Enabled Trigger Action * Schedule         pp       On         Motion Det FN         Always         * P=PTZ Action, D1/2=Digital Output 1/2, I=IR, P=PTP Upload, S=SMFP notification, H=HTTP notification, Network Storage, SD=SD Card, PN=Push notification         TCP/IP       192.168.5.125, HTTP Port:80         PPPoE       Disabled         UPAP       Enabled, AirNve-00:18:FE:07:18:23         RTSP       Fort Ange: 5000-7999, RTSP Port: 554, RTSP Configuration: video.pro2, Authentication: Disabled.         Port       ITTP Port=80         System Log Port=514 RTSP Port=54			
Image Rotated: None,         Video Clip Format: Profilel,         Day / Night         IR Cut Filter Mode:Auto,         IR Cut Filter Switch Delay:1s,         Event List         Name       Enabled Trigger Action * Schedule         pp       On       Motion Det FN         Always         * P=PTZ Action, D1/2=Digital Output 1/2, I=IR, P=PTP Upload,         s=SMTP notification, H=HTTP notification,         N=Metwork Storage, SD=SD Card, PN=Push notification         Network         TCP/IP         192.168.5.125 , HTTP Port:80         PPPoE         Disabled         UPnP         Enabled Andreword: Storage, SD=SD Card, PN=Push notification         Network         TCP/IP         192.168.5.125 , HTTP Port:80         PPPoE         Disabled         UPnP         Enabled, Andreword: Storage, SD=SD Card, PN=Push notification: Disabled.         RTSP         Configuration: video.prol, Authentication: Disabled.         RTSP         Port         ITTP Port=60         System Log Port=514         RTSP Port=544		_	
Day / Night         IR Cur Filter Mode:Auto,         IR Out Filter Switch Delay:1s,         Name         Event List         Name         Enabled         Trigger         Action *         Schedule         Pp         On         Motion Det         Noter Filter Switch Delay:1s,         *         PePTZ Action, Di/2=Digital Output 1/2, I=IR, F=FTP Upload, S=SMTP notification, B=HTTP notification, N=Network         TCP/IP       192.168.5.125, HTTP Port:80         PPPOE       Disabled         UPnP       Enabled         Bonjour       Enabled         RTSP       Port         Port       Muthentication: Disabled.         HTTP Port=50       Sygtem Log Port=514         RTSP       Port		Image Rotated: None	e, 🔨
IR Cut Filter Mode:Auto,         IR Cut Filter Switch Delayris,         Image: Switch Delayris         Image: Swi		Fideo orip romato.	
IR Cut Filter Mode:Auto,         IR Cut Filter Switch Delayris,         Image: Switch Delayris         Image: Swi			*
IR Cut Filter Switch Delay:1s,         Event List         Name       Enabled Trigger Action * Schedule         pp       On       Motion Det PN         Always         * P=PTZ Action, D1/2=Digital Output 1/2, I=IR, F=FTP Upload, S=SMTP notification, B=MTTP notification, M=Metwork Storage, SD-SCrd, PM=Push notification         TCP/IP       192.168.5.125 , HTTP Port:80         PPPOE       Disabled         UPnP       Enabled         Bonjour       Enabled, Airlive-00:1B:FE:07:1B:23         RTSP       Configuration: video.prol, Authentication: Disabled.         RTSP Configuration: video.prol, Authentication: Disabled.         RTSP Configuration: video.pro2, Authentication: Disabled.         RTSP Port=504         RTSP Port=544		Day / Night	
Event List         Name       Enabled       Trigger       Action *       Schedule         Pp       On       Motion Det PN       Always         *       P-PTZ Action, D1/2=Digital Output 1/2, I=IR, P=PTP Upload, S=SMTP notification, B=HTTP notification, N=Network         TCP/IP       192.168.5.125 , HTTP Port:80         PPPOE       Disabled         UPnP       Enabled         Bonjour       Enabled , Airlive-00:1B:FE:07:1B:23         RTSP       Fort Range: 5000-7999, RTSP Port: 554, RTSP Configuration: video.pro2, Authentication: Disabled.         Port       HTTP Port=80 System Log Port=514 RTSP Port=504			
Name       Enabled       Trigger       Action *       Schedule         pp       On       Motion Det PN       Always         *       P=PTZ Action, D1/2=Digital Output 1/2, I=IR, P=PTP Upload, S=SMTP notification, B=HTTP notification, N=Network       Second State         Network       Network       Network         TCP/IP       192.168.5.125 , HTTP Port:80         PPPOE       Disabled         UPnP       Enabled         Bonjour       Enabled , Airlive-00:1B:FE:07:1B:23         RTSP       Port Range: 5000-7999, RISP Port: 554, RTSP Configuration: video.pro2, Authentication: Disabled.         Port       HTTP Port=80 System Log Port=514 RTSP Port=544			~
Name       Enabled       Trigger       Action *       Schedule         pp       On       Motion Det PN       Always         *       P=PTZ Action, D1/2=Digital Output 1/2, I=IR, P=PTP Upload, S=SMTP notification, B=HTP notification, N=Network       Second Stringe, SD=SD Card, PN=Push notification         Network       Network       Interview       Interview       Interview         UPnP       In2.168.5.125 , HTTP Port:80       PPPOE       Disabled         UPnP       Enabled       Bonjour       Enabled       Interview         RTSP       Port Range: 5000-7999, RISP Port: S54, RTSP Configuration: video.pro2, Authentication: Disabled.       Interview         Port       HTTP Port=80 System Log Port=514 RTSP Port=544       Interview       Interview		-Event List	
pp       On       Motion Det PN       Always         * P=PTZ Action, D1/2=Digital Output 1/2, I=IR, F=PTP Upload, S=SMTP notification, H=MTTP notification, N=Network Storage, SD=SD Card, PN=Push notification         Network         TCP/IP       192.168.5.125 , HTTP Port:80         PPP0E       Disabled         UPnP       Enabled         Bonjour       Enabled , Airlive-00:1B:FE:07:1B:23         RTSP       Fort Range: 5000-7999, RTSP Port: 554, RTSP Configuration: video.pro1, Authentication: Disabled.         RTSP       Fort Sold and a port is sold			abled Trigger Action * Schedule
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TCP/IP 192.168.5.125 , HTTP Port:80 PPPoE Disabled UPnP Enabled Bonjour Enabled , Airlive-00:1B:FE:07:1B:23 RTSP Port Range: 5000-7999, RTSP Port: 554, RTSP Configuration: video.pro1, Authentication: Disabled. RTSP Configuration: video.pro2, Authentication: Disabled. Port HTTP Port=80 System Log Port=514 RTSP Port=554		Network	
PPPoE Disabled UPnP Enabled Bonjour Enabled, Airlive-00:1B:FE:07:1B:23 RTSP Port Range: 5000-7999, RTSP Port: 554, RTSP Configuration: video.pro1, Authentication: Disabled. RTSP Configuration: video.pro2, Authentication: Disabled.		TCP/IP 192.16	8.5.125 , HTTP Port:80
UPnP Enabled Bonjour Enabled, Airlive-00:1B:FE:07:1B:23 RTSP Port Range: 5000-7999, RTSP Port: 554, RTSP Configuration: video.pro1, Authentication: Disabled. RTSP Configuration: video.pro2, Authentication: Disabled.			
Bonjour Enabled , Airlive-00:1B:FE:07:1B:23 RTSP Port Range: 5000~7999, RISP Port: 554, RTSP Configuration: video.pro1, Authentication: Disabled. RTSP Configuration: video.pro2, Authentication: Disabled. Port HTTP Port=80 System Log Port=514 RTSP Port=554			
RTSP Port Range: 5000-7999, RTSP Fort: 554, RTSP Configuration: video.pro1, Authentication: Disabled. RTSP Configuration: video.pro2, Authentication: Disabled. Port HTTP Port=80 System Log Port=514 RTSP Port=554			
Port Range: 5000~7999, RISP Port: 554, RISP Configuration: video.pro1, Authentication: Disabled. RISP Configuration: video.pro2, Authentication: Disabled. Port HITP Port=80 System Log Port=514 RISP Port=554			J, ANNVE-00:1D:FE:07:1B:23
RTSP Configuration: video.pro1, Authentication: Disabled. RTSP Configuration: video.pro2, Authentication: Disabled. Port HTTP Port=80 System Log Port=514 RTSP Port=554			999. RTSP Port: 554.
HTTP Fort=80 System Log Port=514 RTSP Fort=554		RTSP Configuration: RTSP Configuration:	: video.pro1, Authentication: Disabled. : video.pro2, Authentication: Disabled.
HTTP Port=80 System Log Port=514 RISP Port=554			
System Log Port=514 RTSP Port=554		Port	
		System Log Port=514 RTSP Port=554	4
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# 5.2 Basic Setting

The basic setup allows you to manage the user accounts of your network camera, define the network parameters, set up the date and time settings and most importantly, the video settings.

#### 5.2.1 Account

<b>Air Live</b>	(www.airlive.com) BU-3128 3-Megapixel motorized IR PoE IPCAM
<ul> <li>Information</li> <li>Information</li> <li>Basic Setup</li> <li>Account</li> <li>Network</li> <li>Date Time</li> <li>Video</li> <li>Audio</li> <li>Live View</li> <li>Playback</li> <li>Event</li> <li>System</li> </ul>	Account List User Name Viewer Mode admin Administrator Add Edit Remove Anonymous Setting Anonymous Viewer Disabled  Save Cancel

The network camera allows the creation of different user accounts with different levels of access to the camera. There are three main user levels. The Viewer account only allows viewing the live video page of the camera. The Operator account allows viewing the live video as well as changing the image setup settings, such as brightness, contrast, etc. Only the Administrator account has full access to all camera settings, including the Settings menu.

You can define up to nine additional user accounts. The user name and password must be between 4 and 16 characters in length. For each account you can also specify different user authority (Viewer, Operator or Administrator).



#### Account List:

Click the Add button to create a new user account. A popup window will open up. Here you type in a user name and a password for the new account. Also, you must define the role of the new user account. The example shows how we create a guest account that only has viewing rights, but cannot change any settings.

Click Save to create the new user account.

Highlight an account to either edit or remove it.

Note that the admin user account cannot be removed.

#### **Anonymous Settings:**

Enabling this will allow any user to view the live video from the camera live video page without entering a user name or password. If you do not want to allow this to happen, be sure to set this option to "Disabled."

Anonymous Setting		
Anonymous Viewer	Enabled	•

#### 5.2.2 Network

On this page you can define the network settings of the camera. By default the camera is set up to automatically obtain the necessary IP information from the DHCP server (e.g., the router) in your network. You can, however, set up the IP address and related settings manually.

<b>Air Live</b>	(www.airlive.com) BU-3128 3-Megapixel motorized IR PoE IPCAM
<ul> <li>Information</li> <li>Basic Setup</li> <li>Account</li> <li>Network</li> <li>Date Time</li> <li>Video</li> <li>Audio</li> <li>Live View</li> <li>Playback</li> </ul>	TCP/IP       PPPoE         Internet Protocol Version 4 (TCP/IPv4)         MAC Address       00:4 7:FE:07:1B:23            • Obtain an IP address automatically (DHCP)            • Use the following IP address         • Obtain DNS server address automatically            • Use the following DNS server address
© Event © System	Internet Protocol Version 6 (TCP/IPv6)         IP Address       fe80:0000:0000:021b:feff:fe07:1b23 / 64         HTTP         HTTP Port • 80 • (1124 ~ 65534)         Save       Cancel

#### 1. TCP/IP:.



#### - Internet Protocol Version 4(TCP/IPv4):

**MAC address-** MAC address stands for Media Access Control address. This is the unique hardware address of the camera's network interface.

**Obtain an IP address automatically (DHCP)-** This is the default setting. In this mode the camera obtains the IP information from the DHCP server in your network.

**Use the following IP address-** Activate this option in order to assign a static IP address to the camera. You need to enter a valid IP address, subnet mask and default gateway address in the corresponding fields.

**Obtain DNS server address automatically -** automatically use the DNS server settings provided by the DHCP server.

**Use the following DNS server address-** When you disable DHCP, you also need to provide the camera with valid DNS settings. The Primary DNS server must be filled out. It is often the same IP address as the Gateway address.

#### - Internet Protocol Version 6(TCP/IPv6):

**IP address**- The IPv6 IP address of camera is automatically assigned by converting the MAC address of the IP camera. User is not able to modify it..

- HTTP:

**HTTP port number-** The default value is 80 and normally there is no need to change it.

If you decide to change the http port to a different value; e.g., 1024, you need to do two things.

First, after saving the settings you need to reboot the camera via the System -> Initialize menu.

Secondly, after the reboot is completed you need to connect to the camera using the URL http://camera\_ip:portnumber.



#### 2. PPPoE:

<b>Air Live</b>	(www.airlive.com) BU-3128 3-Megapixel motorized IR PoE IPCAM
<ul> <li>Information</li> <li>Basic Setup</li> <li>Account</li> <li>Network</li> <li>Date Time</li> <li>Video</li> <li>Audio</li> <li>Live View</li> <li>Playback</li> <li>Event</li> <li>System</li> </ul>	PPPOE         PPPOE         PPPOE         On Off         Authentication Type         PAP         CHAP         IP Address         0.0.00         Iver ID         Password         Re-type Password         Obtain DNS server address automatically         Ouse the following DNS server address

PPPoE is the most common form of connection for DSL-based Internet service.

You can use this function to connect the camera directly to a DSL modem. A common application for this is where the network camera is installed in a remote location where no network is present. In the location is a DSL Internet connection (DSL modem), but no router or any other network infrastructure. You can connect the camera to the DSL modem and enter your DSL account information in the fields below.

#### - PPPoE:

PPPoE- On.

#### Authentication Type- PAP or CHAP.

**IP address-** Displays the current IP address obtained from the Internet Service Provider (ISP). It displays 0.0.0.0 if the camera is not connected to the Internet via PPPoE.

**User ID-** Enter the user ID for your DSL service here. The user ID has been given to you by your ISP.

**Password-** The password for the DSL account goes here. Re-type the password in the field.

**DNS Server-** Typically, your ISP will send DNS Server information to the camera when it connects. Some ISPs, however, require entering specific DNS servers manually. In that case you can activate the option "Use the following DNS server address" and enter the primary and secondary DNS servers in the fields below (not shown on the screen shot).



#### 1. Date Time

<b>Air Live</b>	(www.airlive.com) BU-3128 3-Megapixel motorized IR PoE IPCAM
Information	Date Time
Basic Setup	Current Date/Time
Account	Current Date/Time 2017-08-23 16:43:08
Network	PC Clock 2017-08-23 16:43:07
Date Time Video	Date/Time Format yyyy-mm-dd hh:mm:ss V
Audio	
O Live View	Synchronization Method
🖸 Playback	O Keep Current Setting
© Event	O Synchronize with client PC
⊙System	O Manual Setting
	• Synchronize with NTP
	● Use the following NTP server address
	server 1 pool.ntp.org Test
	server 2 1.pool.ntp.org Test
	server 3 2.pool.ntp.org Test
	server 4 3.pool.ntp.org Test
	Time Zone
	Time Zone
	(GMT+08:00)Taipei
	Daylight Saving Time $\bigcirc$ On $\odot$ Off
	Save Cancel

On this page you can define the time settings of the camera.

#### - Current Date/Time:

Current Date/Time- Displays the camera's current time.

**PC Clock-** This is the date and time of the computer you are currently using to connect to the camera.

**Date/Time Format-** The format determines how the date/time is displayed on the live video.

- Synchronization Method:

Keep current setting- You don't want to change the date and time.

**Synchronize with client PC-** It means to adjust the camera time to your PC. Be aware of the fact that this option sets the time only one time. From that point forward,

# **Air Live**

the camera time will start to differ from your PC time as time progresses, and occasional re-synchronization will be necessary.

**Manual Setting-** Lets you manually enter the time and date. As with the previous option, the camera's time will become inaccurate as time passes and you will need to re-synchronize the time periodically.

**Synchronize with NTP-** This option is the recommended setting. In this mode, the camera will synchronize its time settings based on the interval setting (ranging from once per hour to once per day). The camera obtains the time from the NTP server. You can use the default value unless your camera is not connected to the Internet, or if a firewall in your network blocks the outgoing NTP request of the camera. Select "Manual" and you can enter a different NTP server; e.g., a server in your local network.

- Time Zone:

Time zone- Select the correct time zone for your location.

**Daylight Saving Time-** You can define the range of Daylight Saving Time by activating this option. The camera will adjust the time (move the clock forward or backward by one hour) depending on the programmed start and end time. If your camera is not equipped with this feature, you can adjust the time zone manually for Daylight Saving Time.

#### 2. Video

The following three menus: Video Setting, Profile and Day/Night, allowing defining all video-related parameters. Note that the Day/Night option as well as other parameters may not be available on all models.



#### • Video Setting:

Air Live	(www.airlive.com) BU-3128 3-Megapixel motorized IR PoE IPCAM
	Video Setting Profile Day / Night
Basic Setup	Rotated
Account	Mirror/Flip None 🗸
Network	Image Rotated 0 V
Date Time	
Video	Torona
Audio	Image
C Live View	Video Clip Format Profile1 V
O Playback	Snapshot Format Profile1 V
O Event	
© System	Overlay
	Overlay None 🗸
	Privacy Mask
	Name Status
	No item has been added.
	Add Edit Remove
	Save Cancel

#### - Rotated:

**Mirror/Flip**- Allows to mirrors and flip the image. **Image Rotated**- Allows 90°/180°/270° rotating the image

- Image:

Video Clip Format- Select which video profile the camera should be using for video clips it records in such as the network storage device, or SD card.

Snapshot Format- Select the video profile used for snapshots (e.g., for JPG upload to a FTP server).

- Overlay:

Overlay- Define what kind of an overlay you want for the live video.

Text Color- Choose between black and white.

Background color- Select from black, white or transparent.

**Display Position-** Define where the overlay should appear on the live image.

#### - Privacy mask:

Privacy masking is the ability of the camera to back out (censor) certain parts of the live video.



Example: The camera is installed in your company; for example, overlooking the warehouse. In one corner of the warehouse is the break room, where the employees go for their lunch breaks. In many countries it is not permitted to monitor the workers during their break. To comply with laws and regulations, you can define

a privacy mask in the break area to ensure that this area is not being monitored or recorded by the camera.

Click "Add" to create a new privacy mask.

As you can create multiple masks, you need to provide a name for the mask, and you can define which color you want to overlay to be. Finally, set the status to "Enabled" and click "Save" to create and activate the privacy mask



#### • Profile:

The network camera allows the creation of video streaming profiles. For each profile you can define the video resolution, the viewing area and the video codec that is to be used. Click "Add" to create a new profile, "Remove" to delete a profile or "Edit" to modify an existing profile.

		Ø http://192.168.5.125/basic_video_profile_pop.htm?	×
<b>Air</b> Live	BU-3:	http://192.168.5.125/basic_video_profile_pop.htm?mod_0	
Information Basic Setup Account	Video Setting Profile Day / Night Stream Profile Name Description	Profile Description           Profile Name         Profile1           Profile Description         profile1	^
Network Date Time Video Audio Live View Playback Event System	Profile1     profile2       Profile2     profile2	Video Setting Encoding H264 V Profile High V Resolution 2048x1536 V Maximum frame rate 28 fps (1~30) Quality © Fixed Quality Customize V Compression 46 Maximum Bitrate 8M V O Fixed Bitrate 2M V	~
	-	<	>

#### - Video Setting:

**Encoding-** Your network camera can encode video in two different formats. H.264 is the most advanced and efficient codec delivering excellent image quality and a small video stream size at the same time. Normally, this is your preferred choice. However, you can also select MJPEG, e.g., for compatibility reasons.

**Profile-** Encoding application offers you three choices- High, Main and Baseline profiles.

**Resolution-** Here you define the video resolution for the profile. Which choices you have depends on your camera model. Some HD models offer image resolutions of up to 1920 x 1080 pixels whereas standard definition cameras are limited to 640 x 480 pixels.



**Maximum frame rate-** Type in the number of frames the camera should generate per second of video. The higher the value, the smoother the video, but the more bandwidth is going to be required. Valid entries are 1 to 30.

**Quality-** You can control the image quality of the video by selecting "Fixed Quality" (or refers to VBR) and defining the image quality by selecting one of the following values "Medium," "Standard," "Good," "Detailed" and "Excellent." Or you can choose to specify the bit rate (fixed bitrate or CBR) of the video the camera must not exceed. In this mode the camera varies the image quality automatically to not exceed the specified maximum. With setting fixed quality plus maximum bitrates, the camera would try to meet the quality requirement without exceed the certain bitrates.

#### - Audio Setting:

#### Audio Steam- You can select "On" or "Off".

Audio Setting			
Audio Stream	On 🗸		
Current Audio Setting			
Audio Mode	Full Duplex		
Audio Input	0db / g.711_u-law		
Audio Output	6db		

#### • Day/Night:

Some network cameras are equipped with active IR LEDs providing the ability to capture video in complete darkness. Note, that if your camera is not equipped with IR LEDs, this menu will not be available. Also note that some menu items will vary depending on your camera model.

Infrared cut-off filters are designed to reflect or block mid-infrared wavelengths while passing visible light. They are often used in network video cameras to block IR due to the high sensitivity of many camera sensors to near-infrared light. With the filter in place before the image sensor, the camera will not be able to pick up IR light, but it generates true color video. Once the IR cut filter is removed, the camera becomes IR light sensitive and will generate a black and white image – and it does that even in complete darkness if the IR LEDs are active.



<b>Air Live</b>	(www.airlive.com) BU-3128 3-Megapixel motorized IR PoE IPCAM
<ul> <li>Information</li> <li>Basic Setup</li> <li>Account</li> <li>Network</li> <li>Date Time</li> <li>Video</li> <li>Audio</li> </ul>	Video Setting     Profile     Day / Night       IR Cut Filter Mode     Auto     ✓       IR Cut Filter Switch Delay     1 ✓ Sec     IR Mode       IR Mode     Auto     ✓       Smart IR     On ✓
<ul> <li>Live View</li> <li>Playback</li> <li>Event</li> <li>System</li> </ul>	Save Cancel

#### - Day/Night:

#### **IR Cut Filter Mode-**

**Auto--** The camera decides when to remove the IR cut filter based on the IR Cut Filter Threshold you can specify. The switch delay ensures that the camera only switches the IR Cut Filter after the specified amount of time has passed.

•	
IR Cut Filter Mode	Auto
	Auto
	Night Mode
	Day Mode
	Schedule

**Night Mode--** This is the opposite of the day mode. If this mode is enabled, the camera always removes the IR cut filter. As a result, the camera will always be IR sensitive, regardless of the actual light levels, and the image will be rendered in B/W mode. Using night mode in day light conditions is not recommended as it leads to a poor image quality with false and washed out colors.

**Day Mode--** In this mode the camera does not remove the IR Cut Filter from the image sensor regardless of any other settings. So only visible light will pass through and the image will be in color mode.

**Schedule--** Select this option, if you wish to control exactly when you want the camera to engage the night mode. You can use the internal scheduler to define a time pattern for each day of the week, e.g., no night mode on the weekends, but night mode from MON to FRI from 21.00 hours to 06.00 hours. The scheduler is explained in detail later on.

**IR Cut Filter Switch Delay**- For user to define the time duration (how many seconds) between IR being turned on or off from the current status.



**IR Cut Filter Threshold**- Here we use an example to explain how IR cut filter threshold works. If you set Dark as 30 lux and Bright as 70 lux, that means when luminance is less than 30 lux, the camera switches to night mode (B/W), and when luminance is more than 70 lux, the camera switches to day mode (color), if the luminance is between 30 lux and 70 lux, the camera stays in current mode. **IR Mode-**

Auto-- This ensures that the IR lights go on whenever the IR cut filter has been removed.

Active-- Keeps the IR LEDs illuminated regardless of the state of the IR cut filter. To ensure maximum life of the IR LEDs, this option shouldn't be used, unless your camera is installed in a dark environment which requires IR lighting at all times. Inactive-- When this is selected, the camera will never active its IR LEDs, even if the night mode is enabled (the IR Cut Filter has been removed). If you have your own 850nm IR lighting in place already, then you will not need to use the camera's integrated IR LEDs and can therefore turn the IR LEDs off.

**Schedule--** Select this option, if you wish to control exactly when IR LED turning on and off by following a certain schedule setting.

IR Mode



#### 3. Audio:

Air Live	(www.airlive.com BU-3128 3-Megapixel motorized IR PoE IPCA	
<ul> <li>Information</li> <li>Basic Setup</li> <li>Account</li> <li>Network</li> <li>Date Time</li> <li>Video</li> </ul>	Audio Setting         Audio Input         Audio Input Gain         Q         Audio Encoding         g.711_u-law          Environment Noise         Off	
Audio Live View Playback Event System	Audio Output Audio Output Gain 0 V Save Cancel	



#### Audio Setting:

#### - Audio Input:

Audio Input Gain- Select the microphone input gain value you wish in the drop-down menu, and based on your region to select the proper codec and save all setting. Audio Encoding-

**g.711 u-law--** One codec for "Computer Audio", used in North America & Japan areas.

**g.711 a-law--** Another codec for "Computer Audio", used in Europe and the rest for the world.

**AMR--** An audio codec of the third generation communication for mobile PHONE. While the option selected, your mobile phone will receive the audio file from IP Camera. And you can choose the bit rate from 4.75k to 12.2k. However, the usage of this codec will cause frame-rate decreasing.

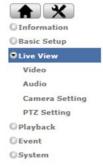
- Audio Output:

Audio Output Gain- Select the speaker output gain value you wish in the drop-down menu and save it.

Note: The camera does not support echo cancelling, using the full duplex mode may cause audio feedback

### 5.3 Live View

The Live View menu provides access to the video settings, which are exactly the same as described in the last section 5.4 & 5.5. It also provides access to advanced image settings and allows configuring the view areas that we discussed in the previous section. Note that depending on your camera model, the options on the screen may differ from the screen shots in this user manual.



#### 1. Video:

• The same as described in the last section 5.2 item 4.

2. Audio

• The same as described in the last section 5.2 item 5.

#### 3. Camera Setting:

Image Setting.



<b>Air Live</b>	(www.airlive.com) BU-3128 3-Megapixel motorized IR PoE IPCAM
	Image Settings Lens Settings ROI
Information     Basic Setup	Live View
<ul> <li>Live View</li> <li>Video</li> <li>Audio</li> <li>Camera Setting</li> <li>Playback</li> <li>Event</li> <li>System</li> </ul>	hotel mixin
	Image Enhancement         Brightness       50         Saturation       50         Contrast       50         Sharpness       50         Default       50
	White Balance         Color Tone       Cool         Auto White Balance         Color Tone       Cool         Auto White Balance         Auto White Balance
	Exposure Setting         Exposure Frequency       Auto         Automatic Exposure       20         Exposure Time       1/10000 ✓ Sec. (Min.) ~ 1/15 ✓ Sec. (Max.)         Gain       1 ✓ X (Min.) ~ 128 ✓ X (Max.)         Low Light Behavior       O on If         Default
	Wide Dynamic Range       Mode     Off
	Noise Reduction       2D Denoise     Auto       3D Denoise     Auto
	Defog Mode Off V
	Save Cancel



#### - Image Enhancement:

The image enhancement controls consist of standard video settings, which you know from a great variety of products. Click on "Video" to see the camera live video while you adjust the settings to your liking.

#### - White Balance:

**Color Tone-** Choose between "Cool" and "Warm". Normally you want to set this to real as it provides the best representation of natural colors.

Auto White Balance- This parameter controls how the camera interprets colors. You can choose from the following values: "Auto," "Hold Current", "Fluorescent," "Incandescent," "Sunny," "Cloudy", "Sun Shade" and "Manual" You should select the value that best represents the environment the camera is installed in. You can alsoleave the default value "Auto," as it typically delivers very good results.

#### - Exposure Setting:

**Exposure Frequency-** There are four values: "Auto," "50Hz," "60Hz" and "Hold Current." If your camera is installed so that it's facing outside, you should select "Auto." If your camera is installed indoors, you must select the appropriate light frequency (either 50 or 60 Hz; e.g., in the US select 60 Hz, in Germany, Poland or Italy select 50 Hz). The hold current option fixes the current exposure settings.

Automatic Exposure- You can manually set the exposure value, which ranges from 0-100 (dark to bright). The default value is 25 and typically provides good results. Exposure Time- You can define the minimum and maximum exposure time of the camera's shutter here. We recommend using the smallest exposure time (e.g., 1/10000 sec) for the min value as it ensures the camera will generate crisp images during day time conditions in which even moving objects appear sharp and in focus. As for the max value, the bigger the value, the longer the camera keeps the shutter open in low light conditions allowing more light to fall onto the image sensor. As a result, the camera can capture images even in very dark environments. The downside is that moving objects will appear blurred as the move while the camera's shutter is open. Gain- The camera is equipped with an electronic gain mechanism which helps capture image in dark conditions. The higher the gain, the brighter the image, but the downside is that the image contains more noise.

**Low Light Behavior**- When enabled, this opens allows additional control over the camera when it is running in night mode.

**Backlight Compensation (BLC)-** In images where a bright light source is behind the subject of interest, the subject would normally appear in silhouette. BLC allows the camera to adjust the exposure of the entire image to properly expose the subject in the foreground. The resulting image may appear overexposed in the background; however, the object of interest is now properly lit.



#### - White Dynamic Range:

WDR stands for Wide Dynamic Range and allows the network camera to capture video in areas with high contrasting objects; e.g., extremely bright and extremely dark. Activate WDR by setting it to "Auto" and then adjust the level that controls the amount of WDR enhancement.

#### - Noise Reudction:

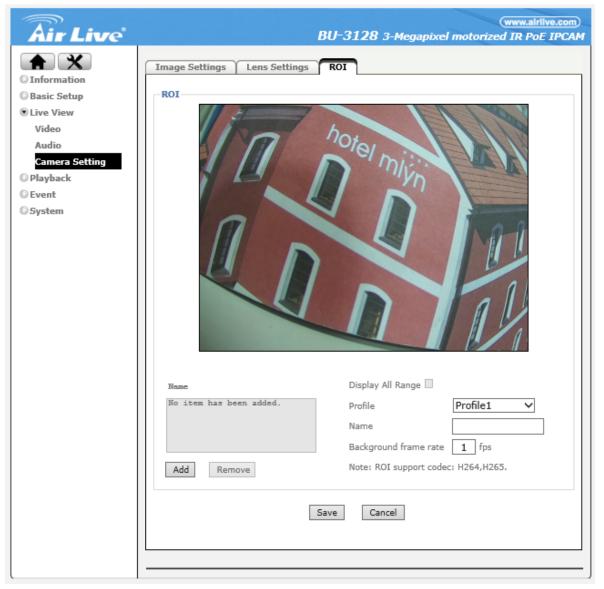
Your camera features a noise reduction algorithm, which helps reduce the graining in the video, which occurs under low light conditions. Set this parameter to "Night Mode" to only activate noise reduction when the camera is operating in night mode. You can also select "Schedule", "On" (activates noise reduction permanently) or "Off" (deactivated noise reduction permanently)

#### - 3D Denoise:

Improves video noise reduction to deliver sharper, more accurate images.



#### • ROI



#### - ROI:

ROI is an application for strengthening the image clarity in key regions of a scene. Please refer to the picture below. The framed regions are clearer than the other region. First, please fill in a name and click add, and then you'll see a rectangle frame on the live-view screen. Select a region which you want the view to be clearer, and then click save. If you want to see the regions you have set, please click Display All Range. Note: For each profile, the ROI sets are limited to 3, and ROI only support codec H.264.

#### **5.4 Setting Playback**

The network camera offers an integrated playback feature, from a network storage server or the optional SD storage card



## 1. Client PC

You can play files which are existed on you PC. Click the ' icon, choose the file that you want playback.

		Air Live . Information . Basic Setup . Live View . Playback Client PC Metwork Storage Edge Storage Edge Storage . Event . System			pixel motorized IR P	irlive.com) of IPCAM	
			▶ <b>■</b> ▲ • • •			]	
	🥔 開啟	· · · · · · · · · · · · · · · · · · ·	> 桌面 → 20170824		搜尋 20170824		×
	組合管理			√ Ū	按导 20170824		
	~ 미 더 너 너 너 너 너 너 너 나 다 다 다 다 다 다 다 다 다 다 다 다	▲ 利相具件 20				• ·	
	■ 本機 ● 下 〇 文 ● 音	载 件	МКУ				
	桌	面~	2017082413082				~
		檔案名種	爯(N):	~	MKV Files(*.m	kv)	~
					開啟(O) ▼	ı T	.::
-	Toolbar	Function					
Play the fi		Play the file	9				
		Stop the fil					
	Search the						
	<b>4 Þ</b>	Forward ar	nd toward.				
		Volumes.					
Region of		Region of I	nterest				

## 2. Network

In the event settings you can define a local network storage drive (NAS) as a location for the camera to save videos. The video player allows locating recordings quickly and conveniently on the network storage drive and play back the files right in your web browser.



Air Live	(www.airlive.com) BU-3128 3-Megapixel motorized IR PoE IPCAM
Network Storage       Information       Basic Setup       Live View       PCamera001BFE07	71B23/

There are two folders: "Event" which is for event-triggered recordings, e.g., motion detection alerts, and "Schedule" which contains recordings that the camera recorded if scheduled recording is enabled.

ecording List		
IPC amera001BFE041FF1/		
Folder	File Name	Size
Event/		
Schedule/		

Refer to the section 6.5 "Event" for more details on the setup.

Network Storage						
Recording List						
IP Camera001 BFE06D 36A/						
5 5 1 1 1						
Folder						
20160929/						
20161005/						

Above: Each day has its own folder.

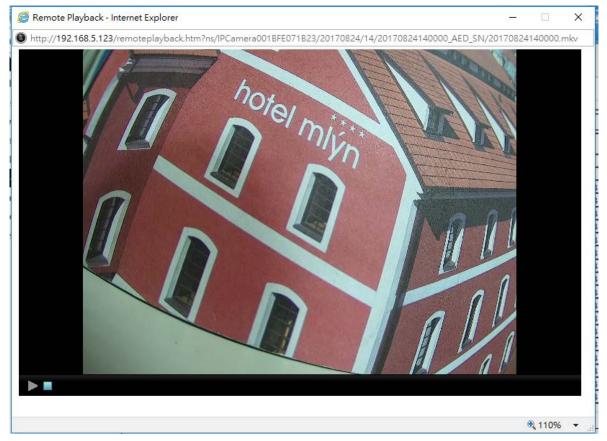


IPC amera001 BFE041 FF1/				
Folder	File Name	Size		
/				
13/				
14/				
16/				
17/				
18/				
19/				
22/				

Above: Each hour of the day has its own folder.

Network Storage					
Recording List					
IP Camera001 BFE06D 36A/20161005/18/20161005181543_1 BA_EN					
Folder	File Name	Size			
/					
	20161005181543 MD.avi	753KB			

Above: Individual videos can be played back by selecting them and clicking the play button.





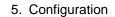
Above.	Above. Playback of one event recording in the web browser (MSTE only).			
ltem	Description			
5	Move one folder up			
45	Refresh the view			
1	Delete the selected file			
2	Select all items in the folder			
Playback the selected video				
+	Download selected item to your computer's hard drive.			

Above: Playback of one event recording in the web browser (MSIE only).

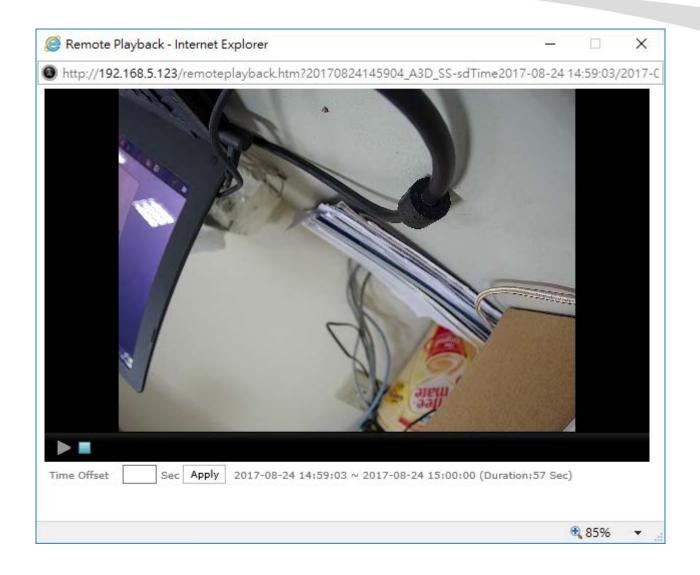
## 3. Local Storage

If your camera is equipped with a local storage option (recording on an SD card) you can access the recordings from here. You can search the condition then click "Filter". The files will be listed. Choose one file, Click the "Play" to see the video.

Edge Storage     Information   Basic Setup   Live View   Playback   Client PC   Network Storage   Edge Storage   From   First Recording   To   Now   To   Now   Type   All   Sort   Descending   Sort   Descending   Results   Max.   10   resording 1 to 2 of total(2)   Start date&time   Duration   Type   2017-08-24   14:59:03   00:00:57   Schedule   dd	www.airlive.co		<b>28</b> 3-Megapi	BU-31			Air Live
Basic Setup         Live View         Playback         Client PC         Network Storage         Edge Storage         Event         System         Sort         Descending         Sort         Descending         Results         Max.         10         resording 1 to 2 of total(2)         Start date&time         Duration       Type         Duration       Type         Name         2017-08-24 15:00:00       Ongoing         Schedule       dd					1	Edge Storage	<b>★</b> X
Playback   Client PC   Network Storage   Edge Storage   Edge Storage   System   System   Sort   Descending   Sort   Descending   Results   Max.   10   resording 1 to 2 of total(2)   Start date&time   Duration   Type   Name   2017-08-24 15:00:00   Ongoing   Schedule   dd							Information
Playback       From       First Recording       □       □         Client PC       Network Storage       To       Now       □       □         Edge Storage       Type       All       □       □       □         Event       Name       All       □       □       □       □         System       Sort       Descending       □       □       Filter         Results       Max.       10 resording list per page       Filter         Start date&time       Duration       Type       Name         2017-08-24       15:00:00       Ongoing       Schedule       dd					g Parameters	Set Recordin	Basic Setup
Client PC Network Storage Edge Storage Event System System Client PC To Now Type All V Name All V Sort Descending V Results Max. 10 resording list per page Filter Name 2017-08-24 15:00:00 Ongoing Schedule dd					me	Recording Tir	Live View
Network Storage       To       Now       Image: Constraint of the state st	X	×		rding 🗸	First Reco	From	Playback
Network Storage         Edge Storage         Type       All         System         Sort       Descending         Sort       Descending         Results       Max. 10 resording list per page         Filter         Recording 1 to 2 of total(2)         Start date&time       Duration         Type       Name         2017-08-24 15:00:00       Ongoing         Schedule       dd					D.L.	_	Client PC
Event         System         Sort         Descending         Results         Max.         10         resording list per page         Filter         Recording 1 to 2 of total(2)         Start date&time         2017-08-24 15:00:00         Ongoing       Schedule         dd	×	×		~	NOW	То	Network Storage
Name       All         Sort       Descending         Sort       Descending         Results       Max.         10 resording list per page       Filter         Recording 1 to 2 of total(2)         Start date&time       Duration       Type         2017-08-24       15:00:00       Ongoing       Schedule				~	All	Туре	Edge Storage
System Sort Descending Results Max. 10 resording list per page Filter Recording 1 to 2 of total(2) Start date&time Duration Type Name 2017-08-24 15:00:00 Ongoing Schedule dd				~		News	Event
Results       Max. 10 resording list per page       Filter         Recording 1 to 2 of total(2)       Start date&time       Duration       Type       Name         2017-08-24 15:00:00       Ongoing       Schedule       dd							System
Recording 1 to 2 of total(2)         Start date&time       Duration       Type       Name         2017-08-24 15:00:00       Ongoing       Schedule       dd				g 🗸	Descendir	Sort	
Start date&time     Duration     Type     Name       2017-08-24     15:00:00     Ongoing     Schedule     dd	21	Filter	age	sording list per pa	Max. 10 re	Results	
	me	Name	Туре			_	
Play Properties Download Remove		dd	Schedule	00:00:57	14:59:03	2017-08-24	









# 5.5 Event

Your network camera supports so-called events. When an event occurs, you can have the camera perform an action, e.g., record a video to a remote location. This section describes how to set up event servers, events, motion detection and the scheduler.



#### 1. Event Server.

First you need to set up an event server, or multiple event servers.

• Even Server:

<b>Air</b> Live		🤗 Server Configuration - Internet Explorer 🦳 🗆	Х
Air Live		http://192.168.5.123/event_server_setting.htm	
<ul> <li>Information</li> <li>Basic Setup</li> <li>Live View</li> <li>Playback</li> <li>Event</li> <li>Event Server</li> <li>Event List</li> <li>Motion Detection</li> <li>Audio Detection</li> <li>Schedule</li> <li>System</li> </ul>	Event Server SD Card Event Server Name Prot- airlvieNas NS Add Edit Remon * Network storage server or	General         Name         Server Setting         Server type         FTP         Network Address         Server Port         21         Upload Path         User Name         Password         Re-type Password         Passive Mode       ○ on ● Off         Test	
		Media Setting         Available memory buffer         Attached Type         Send         0       Pre-event Image [0~7]         Send       0         Post-event Image [0~7]         Image File Name         Suffix       None         O Date Time	~

Click "Add" to create a new event server.

- General:
  - Name- Provide a name for the server.
- Server Setting (FTP):



Server Setting	
Server type	FTP
Network Address	SMTP HTTP
Server Port	HTTPS Network Storage
Upload Path	
User Name	
Password	
Re-type Password	
Passive Mode	○ on ● off
	Test

#### Server Type- FTP.

Network Address - Type in the address of your FTP server

**Server Port -** Leave at 21, unless your FTP server uses a different port. **Upload path -** Upload path.

**User Name and password -** Provide valid login credentials for the FTP server. **Re-type Password -** type password again.

**Passive Mode -** Select "On" if your FTP server utilizes passive FTP, which is the most common method.

Test - Press on Test button to make sure the FTP server information is all correct.

#### - Server Setting (SMTP):

Server Setting	
Server type	SMTP 🔽
Mail Server	
Server Port	25 (1~65535) SSL
Authentication	O on ● Off
Send mail from	
Send test mail to	
	Test

## Server Type - SMTP.

Mail Server - Type in the address of your mail server.

**Server Port -** Adjust the server port if necessary. Port 25 is standard, but your server may be using different values (not so uncommon these days as an anti-spam measure).



Authentication - If your mail server requires authentication in order to send email, and most servers do these days, set authentication to "On" and define the type of authentication below.

**Username and password -** Provide valid login credentials for the email server. **Send mail from -** The camera will use this address as its own email address. This email address does not necessarily need to be a valid address.

**Send test mail to -** Enter the email address to which you want the camera to send the images and click on Test. If the test succeeds you can provide the information for the media settings and click "Save". The actual target email address is defined when you set up an event in the next section.

#### - Server Setting (HTTP):

A HTTP server can be used by the camera to trigger a script on a remote server if an event occurs. User name, password and proxy fields are all optional.

Server Setting	
Server type	нттр 💙
URL	http://
Port	80
User ID	
Password	
Re-type Password	
Proxy Address	
Proxy Port	
Proxy User Name	
Proxy Password	
	Test

#### - Server Setting (Network storage):

Server Setting	
Server type	Network Storage 💙
Туре	Windows Network (SMB/CIFS) $\checkmark$
Network Storage Location	
(for example: \\my_nas\folder)	
Cyclic Size	5120 (5120~1024000 MB)
Workgroup	
User Name	
Password	
Re-type Password	
	Test



Server Type – Network Storage.

**Type -** Select a valid type for your network storage (either Windows SMB or Linux NFS).

**Network Storage Location -** Enter the address of your local storage server as shown on the right.

**User name and Password-** Provide valid login credentials for the network storage server..

**Create folder -** Type in a folder name in which you want the camera to store files. This field is optional.

Test - Press on Test button to make sure the NAS information is all correct.

#### - Media Setting :

Here you define what kind of media you wish to upload (snapshot, video), how many images pre and post event you wish to upload, the image file name and the suffix.

Media Setting	
Available memory buffer 30	220 / 30720 KB
Attached Type Snapshot	~
Send 0 Pre-event Image [0~7	]
Send 0 Post-event Image [0~2	7]

# • SD Card:

<b>Air Live</b>	(www.airlive.com) BU-3128 3-Megapixel motorized IR PoE IPCAM
<ul> <li>Information</li> <li>Basic Setup</li> <li>Live View</li> <li>Playback</li> <li>Event</li> <li>Event List</li> <li>Motion Detection</li> <li>Audio Detection</li> <li>Schedule</li> <li>System</li> </ul>	Event Server       SD Card         Memory Card       On O Off         Card Status       7139008/7856128 KB         Overwrite       O on O off         Media Setting       Available memory buffer         Available memory buffer       14336 / 30720 KB         Attached Type       Video         Pre-event Recording       0 seconds [0~7]         Post-event Recording       5 seconds [1~7]         Save       Cancel
l	

If you want to record video footage on a local SD card, you first must insert the SD card (see hardware installation guide for details), and then you must set the



Memory Card to "on" and format the card by clicking "Execute". Noted: Only FAT32 is supported, please do not format the SD card to other format. Noted: Please power off the camera before taking off memory card

## 2. Event List.

Now that we have created an Event Server, we can proceed with setting up actual events.

• Even List:

Information Basic Setup Live View Playback Event List Schedule System Information Finite List Schedule System Information Setting the setup of the setup	Air Live	🥖 Event Configuration - Internet Explorer – 🗆 X
Information       Basic Setup         Live View       Playback         Playback       pp         Event List       Rame         Event List       Rame         Payback       pp         Or       Or         Event List       Prescription         Wate List       Rame         Event List       Rame         Payback       pp         Or       Or         Wate List       Prescription         Wate List       Rame         Payback       pp         On       Or         Standard       Prescription         Motion Detection       Set min time interval between triggers         Add       Edit       Reme         * PerpTs Action, DL/2=05       SesRTP notification, Malletwork Storage, Storage		http://192.168.5.123/event_list_setting.htm
Motion Detection         Audio Detection         Schedule         System         Add         Edit         * P=PTB Action, D1/2=Di S=SNTP notification, N=Network Storage, SI         Set min time interval between triggers         Add         Edit         * P=PTB Action, D1/2=Di S=SNTP notification, N=Network Storage, SI         Set min time interval between triggers         Add         Edit         Reserval         Motion Detection         Action         Send Image         Send Notification         Activate Digital Output         Push Notification         Schedule         Ø Always         O Schedule	Information     Event List     Scheduled       Basic Setup     Event List       Live View     Name     Enable       Playback     pp     On       Event Server     Image: Second	Name Event  On Off Trigger Triggered by Motion Detection
□ Push Notification Schedule ③ Always ○ Schedule Working_Day ∨	Motion Detection Audio Detection Schedule System Add Edit Re * P=PTE Action, Di/2=Di S=STTP notification,	Detection Area ppm  Detection Type Start  Please Configure Motion Detection Action Send Image
● Always ○ Schedule Working_Day ∨		
		Always     Schedule Working_Day

Click "Add" to create a new even list.

#### - General:

**Name-** Provide a name for the server. **Event-** On/Off the event.

## - Trigger:

You need to specify the trigger type. The drop-down list below shows the available options. Note that depending on your camera model, the options will vary.

**Motion Detection-** The camera monitors the video image for movements and triggers an alert when it detects motion. Motion detection needs to be configured first for that to work.

**Tampering Detection-** The camera can detect if it's being tampered with, e.g., if someone covers the lens, and triggers an alert when this happens. Tampering detection needs to be configured for that to work.



**Digital Input-** If your camera is equipped with digital inputs (see hardware installation guide), then you can use them as a trigger mechanism. A common example would be to use 3<sup>rd</sup> party motion detection sensors that trigger the camera to start a recording.

**Periodical-** This trigger type can be used if you want the camera to perform the same action over and over again, based on a time period. A typical application would be to have the camera refresh an image on your web site every 60 seconds.

#### - Action:

After you have selected the tripper type, you now have to define the action(s). In other words, what do you want the camera to do if the event occurs?

Action
☑ Send Image
Event Server
Name Type Media
Please Configure Event Server or SD Card
Send Notification
HTTP(S) Onvif V
Custom Parameters
Please Configure HTTP Server HTTPS Server
Activate Digital Output
Digital Output1

**Send Image-** Instructs the camera to send out images. When selected, you need to specify whether you want to use FTP, network storage or SD card. You may need to set up these servers first (see previous section) in order to use them here.

**Send Notification-** This action type uses the HTTP event server. You can use this to have the camera trigger a script on a server.

Activate Digital Output - If your camera is equipped with digital outputs, then you can use them to perform an action. You can specific how long you want the camera to trigger the event once you have selected Digital 1.

**PTZ Action -** This action type will make the camera to move to/point at a certain preset position or start run a certain predefined tour when the event occurs.

#### - Schedule:

Here you can define when you want this action to be active. You can choose between "Always" or a schedule that you have defined (see "Schedule" a few pages down).



Schedule	
● Always	
○ Schedule Working_Day ➤	
Please Configure Schedule	

## • Schedule Recording:

Air Live	🤗 Scheduled Configuration - Internet Explorer 🛛 🗕 🗙
AIFLIVE	http://192.168.5.123/event_scheduled_record_pop.htm?mod_0
Information   Basic Setup   Live View   Playback   Event List   Event Server   Event List   Motion Detection   Audio Detection   Schedule   System     Add   Edit	General Name dd Scheduled On O off

This feature is allowing the camera to record the video by following a certain schedule such as always record or record the video during the weekend.

#### - General:

**Name-** Provide a name for the server. **Event-** On/Off the event.

#### - Action:

Define each recorded video file size to save. You can choose to store the video to NAS or SD card, which need to be pre-configured in event server.



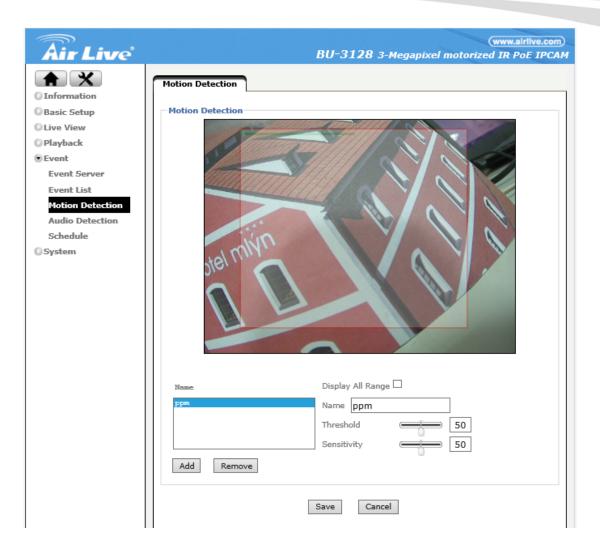
#### 3. Motion Detection.

The network camera is able to monitor the video footage for movements and trigger an alert if motion has been detected. This motion detection does not utilize passive infrared, but instead it relies on a frame by frame comparison of the video footage the camera captures.

You can define more than one motion detection area. The example above shows that so-called hotspot has been created for the area of the window. When you set up an event for motion detection, you can select which motion detection area you wish to monitor.

Threshold and sensitivity will need to be set up so that you don't miss important events and are not flooded by false alarms either. Finding the right values will require some trial and error. There are no standard values that simply "will work" as it depends very much on the actual location and light levels. Generally speaking, increasing the sensitivity while lowering the threshold will generate more false alarms but it ensures that you will not miss an important event. Doing the opposite will of course have the opposite effect: Fewer false alarms at an increased risk or missing an important event.





## 4. Audio Detection.

You can setup the Audio Detection. If the voice is louder more than the setting. The camera notices this and generates a trigger alert. You can define how long you want the alert state to remain active after the event has occurred.

Note: The camera need to receive the voice with microphone in.



Air Live         BU-3128 3-Megapixel motorized IR PoE IPC	
Audio Detection   Audio Detection   Audio Detection   Audio Detection © on © off   Playback   © Event   Event Server   Event List   Motion Detection   Schedule   © System	

#### 5. Schedule.

<b>Air Live</b>		Ceneral Name
<ul> <li>Information</li> <li>Basic Setup</li> <li>Live View</li> <li>Playback</li> <li>Event</li> <li>Event Server</li> <li>Event List</li> <li>Motion Detection</li> <li>Audio Detection</li> <li>Tampering</li> <li>Detection</li> <li>Schedule</li> <li>System</li> </ul>	Schedule Schedule List Name Working_Day Weekend Night_Mode Add Edit Remove	Schedule         Start Time 00 : 00 · End Time 24 · : 00 ·         Mon (Empty) · Add Remove         Tue (Empty) · Add Remove         Wed (Empty) · Add Remove         Thu (Empty) · Add Remove         Fri (Empty) · Add Remove         Sat (Empty) · Add Remove         Sat (Empty) · Add Remove         Sun (Empty) · Add Remove         We Use the same time schedule every day.
		Save Cancel

The Network Camera supports event trigger actions that can be based on a schedule. This can be used, as an example, to only activate motion detection between 9 pm and 6 am during business days and around the clock on the weekends. You can set up individual schedules for each event type, so that motion detection is activated between 7 pm and 7 am, but tampering detection is only activated between 10 pm and 4 am. Depending on your camera model, the screen layout will vary slightly.



There are three default schedules which you cannot delete, but you can modify them. You can create a new schedule by clicking "Add."

Schedule
Science
Start Time 00 ♥ : 00 ♥ - End Time 24 ♥ : 00 ♥
Mon (Empty) V Add Remove 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23
Tue (Empty) V Add Remove
Wed (Empty) V Add Remove
Thu (Empty) V Add Remove
Fri (Empty) V Add Remove
Sat (Empty) V Add Remove
Sun (Empty) V Add Remove
$oxed{U}$ Use the same time schedule every day.

First you need to provide a name for the schedule (not shown on image). Then select a start and end time and click on "Add" for the day of the week the schedule is supposed to be active. As soon as you add a schedule, the timeline turns red, indicating the active schedule. If the schedule is the same for every day of the week, you can activate the option "Use the same time schedule every day."



# 5.6 System

The system menu provides access to a variety of system settings of your network camera



#### 1. Maintenance

Air Live	www.airlive.co BU-3128 3-Megapixel motorized IR PoE IPO	
<ul> <li>Information</li> <li>Basic Setup</li> <li>Live View</li> <li>Playback</li> <li>Event</li> </ul>	Restart         Restart         Restart         Restart         Restart         On Off	
System Maintenance Date Time Security Network Basic Network Advanced Digital I/O LED System Log	Backup / Restore         Default       Restore all setting except:         Network       Date Time         Backup       Backup the configuration of this network camera         Restore       瀏覽         Restore configuration to this network camera from chosen file:         Firmware Upgrade         Image: Primeware Upgrade         Image: Primeware to this network camera from chosen file:         Restore to default	
	Language Upload 測算 Upload language pack to this network camera from chosen file: Save Cancel	



- Maintenance: .
  - **Restart:** You can restart the network camera by hitting the restart button. Set Auto Restart to "On" if you wish to reboot the camera automatically, and then you specify the reboot mode. Select "Sequential mode" and specify after how many days of uptime you want the camera to reboot. Select "Schedule Mode" to control when the reboot is to occur in a much more detailed way.



#### - Backup/Restore:

After you have selected the tripper type, you now have to define the action(s). In other words, what do you want the camera to do if the event occurs?

**Default -** Click this button to restore he factory default settings in this camera. You can choose to exclude the IP and date & time settings.

**Backup -** This function allows saving the current configuration of the camera to a file on your computer's hard drive. Saving the configuration is useful in case you ever want to reload a specific configuration; e.g., in order to set up another camera of the same model and firmware version with the exact same configuration. Since the IP address configuration is also part of the setting date, you must be careful not to restore the same settings to two or more cameras when all of them are connected to the same network. Otherwise, you would be creating an IP conflict in your network.

**Restore -** With this function, you can reload a previously saved configuration back into your camera. Click Browse to locate the configuration file and OK to begin the process. The camera will perform a reboot at the end of the procedure and the new settings will become effective.

Firmware Upgrade: From time to time, there will be a new firmware version available for your camera. New firmware versions can enhance the functionality of the camera, or they can fix problems. Before you begin, make sure that you have obtained a proper firmware from the web site. If you are not 100% sure about this, do not proceed. Instead, contact the technical support team to verify the firmware version. Also, do not perform the upgrade from a computer that is connected to the network wirelessly, as the connection is inherently less stable than a cable-based



connection. If you have the correct firmware file, make sure that you un-compress the ZIP file first (if the firmware file is an archive) and you end up with a file that has an extension \*.bin. Click on Browse and select the \*bin file. Click on OK to begin the upgrade process.

- Language: You can replace the language in the user interface of your network camera. On the Installation CD are different language files starting with "LNG\_" and ending with ".lang." Click on Browse, select the language you wish to install and then click on OK to begin the process.

#### 2. Date Time

- Date Time: .
  - **Current Date/Time:** Reference section 5.2 item 3.



#### 2. Security.

<b>Air Live</b>	www.airlive.com BU-3128 3-Megapixel motorized IR PoE IPCAM
Air Live Air Live Air Live Air Constant Air Constant	
System Log	Add Edit Remove
	Anonymous Setting Anonymous Viewer Disabled V Save Cancel

#### • Account:

Please reference section 5.2 item 1

#### • IP Address Filter:

Once you enabled it, the listed IP address are allowed or denied access to the network camera. Add the IP address that you'd like to allow or deny, select allow or deny from the list and save it.



<b>Air Live</b>	(www.airlive.com) BU-3128 3-Megapixel motorized IR PoE IPCAM
<ul> <li>Information</li> <li>Basic Setup</li> <li>Live View</li> <li>Playback</li> <li>Event</li> <li>System</li> <li>Maintenance</li> <li>Date Time</li> <li>Security</li> <li>Network Basic</li> <li>Network Advanced</li> <li>Digital I/O</li> <li>LED</li> <li>System Log</li> </ul>	Account IP Address Filter   IP Address Filter   Filter Type   Peny V   IP Address Range   No item has been added.     Add   Edit   Remove     Save   Cancel

## • HTTPS:

Secure Sockets Layer (SSL) is a cryptographic protocol that provides security for communications over networks such as the Internet.

HTTPS is a URI scheme used to indicate a secure HTTP connection (SSL encrypted). It is syntactically similar to the http:// scheme that is normally used for accessing resources using HTTP. The differences are that SSL-encrypted connections always begin with https:// instead of http://. HTTPS connections use TCP port 443 by default, compared to standard HTTP connections, which use port 80.



<b>Air Live</b>	(www.airlive.com) BU-3128 3-Megapixel motorized IR PoE IPCAM
<ul> <li>Information</li> <li>Basic Setup</li> <li>Live View</li> <li>Playback</li> </ul>	Account IP Address Filter HTTPS Create / Install Create self-signed certificate
© Event © System Maintenance Date Time Security Network Basic	Installed Certificate         Subject Name         No Certificate Installed.         Properties         Remove
Network Advanced Digital I/O LED System Log	HTTPS Connection Policy         Administrator       HTTP         Operator       HTTP         Viewer       HTTP         Set Policy

- Create/Install: Create a self-signed certificate for HTTPS to recognize
- Installed Certificate: Display or remove the properties of the installed certificate.
- **HTTPS Connection Policy:** Set HTTPS connection policy for different level of users. To use the HTTPS encryption, please set up "Create self-signed certificate" for the first time you use the HTTPS function, and then set up the connection policy for different users.

Note: When enable HTTPS with RTSP on mode, the IP Camera only protect the setting such as username and password and do not protect video and audio. When enable HTTPS with RTSP off mode, the IP Camera will protect all setting including video and audio



#### 3. Network basic.

<b>Air Live</b>	(www.airlive.com) BU-3128 3-Megapixel motorized IR PoE IPCAM
<ul> <li>Information</li> <li>Basic Setup</li> <li>Live View</li> <li>Playback</li> <li>Event</li> <li>System</li> <li>Maintenance</li> <li>Date Time</li> <li>Security</li> <li>Network Basic</li> <li>Network Advanced</li> <li>Digital I/O</li> <li>LED</li> <li>System Log</li> </ul>	TCP/IP       PPPOE         Internet Protocol Version 4 (TCP/IPv4)         MAC Address       00:1B:FE:07:1B:23            • Obtain an IP address automatically (DHCP)            • Use the following IP address            • Obtain DNS server address automatically            • Use the following DNS server address            Internet Protocol Version 6 (TCP/IPv6)         IP Address         fe80:0000:0000:0000:021b:feff:fe07:1b23 / 64         HTTP         HTTP Port          • 80          (1124 ~ 65534)         Save         Cancel

• TCP/IP:

Please reference section 6.2 item 2.

#### • PPPoE:

Please reference section 6.2 item 2.

#### 4. Network Advance.



<b>Air Live</b>	(www.airlive.com) BU-3128 3-Megapixel motorized IR PoE IPCAM
<ul> <li>Information</li> <li>Basic Setup</li> <li>Live View</li> <li>Playback</li> </ul>	RTSP         UPnP         Bonjour         QoS         DDNS           General         RTP Port Range         5000         (1124 ~ 65435) ~ 7999         (1223 ~ 65534)
<ul> <li>Playback</li> <li>Event</li> <li>System</li> <li>Maintenance</li> <li>Date Time</li> <li>Security</li> </ul>	RTSP Port <ul> <li>S54 (1124 ~ 65534)</li> </ul> RTSP Configuration           Profile Name           Profile Name           Profile         video.pro1           Authentication         Disabled V
Network Basic Network Advanced Digital I/O LED System Log	Multicast         Status       Disabled V         Access Name       multi.pro1         Multicast Address       228.0.0.1         Video Port       Image: Auto O Image:
	Save Cancel

## • RTSP:

## - General:

**RTP Port Range -** The default value of port range is 5000 ~ 7999 and can be changed from 1124 to 65534.

**RTP Port -** RTSP stands for Real Time Streaming Protocol. RTSP is supported by most media clients, such as Real Player, VLC and QuickTime. If you only plan to view the camera video with your Web browser or with one of the provided software utilities, you do not need to activate this option. The default value is 554 and can be changed from 1124 to 65534.

# • RTSP Configuration:

This option allows you to set up the URL for each profile and define whether or not you want to enable or disable authentication. By default, the video URL and profile number are related, e.g., profilex = video.prox, but you change it any way you like. Based on the default URLs, access to the RTSP streams would be done like this: rtsp://camera\_address:554/video.pro1 rtsp://camera\_address:554/video.pro2 rtsp://camera\_address:554/video.pro3 rtsp://camera\_address:554/video.pro4



If authentication is enabled, the URLs will change as follows: rtsp://username:password@camera\_address:554/video.pro1 [...]

rtsp://username:password@camera\_address:554/video.pro4.

# • UPnP:

<b>Air Live</b>	(www.airlive.com) BU-3128 3-Megapixel motorized IR PoE IPCAM
<ul> <li>Information</li> <li>Basic Setup</li> <li>Live View</li> <li>Playback</li> <li>Event</li> <li>System</li> <li>Maintenance</li> <li>Date Time</li> <li>Security</li> <li>Network Basic</li> <li>Network Advanced</li> <li>Digital I/O</li> <li>LED</li> <li>System Log</li> </ul>	RTSP     UPnP     Bonjour     QoS     DDNS       UPnP     UPnP      On Off     Turn On UPnP port forwarding       Device Name     BU-3128         Save     Cancel

## - UPnP:

UPnP stands for Universal Plug and Play. A UPnP-enabled device, such as your network camera, announces its presence in the local network to other computers that support UPnP as well. The operating systems Windows XP, Windows Vista and Windows 7/8 support UPnP. When the network camera is connected to the network, Windows will alert the computer user of the presence of the new device (a new icon will be added to your My Network Places folder) and lets the user connect to the device instantaneously.

Furthermore, UPnP has the ability to instruct the router or firewall to open certain ports, so that a party from the outside world can contact a device on the local network, such as the network camera.

UPnP port forwarding is not supported by all routers, however. So, depending on your router or firewall, you may or may not be able use this function, also, opening ports in any router or firewall increases the risk of an intruder successfully breaking in to your network. UPnP automates this task and leaves it to the devices to negotiate which ports to open. Since this is done without any form of authentication, enabling UPnP port forwarding in your router is not necessarily a good idea in a security-sensitive environment. You can always open individual ports in your router or firewall manually. In the camera UPnP is enabled by default. UPnP port forwarding is disabled by default.



When you enable UPnP port forwarding, the screen will reveal additional options. These are the ports the camera will instruct the router to open. Depending on the camera model, you may see different ports. The new H.264 Megapixel cameras have a simpler port model and require fewer ports than the other models. Normally there is no need to change any of these ports, unless you know that a port is already in use by a different device or application.

#### • Bonjour:

<b>Air Live</b>	(www.airlive.com) BU-3128 3-Megapixel motorized IR PoE IPCAM
<ul> <li>Arrest Constant</li> <li>Arrest Const</li></ul>	RISP UPP Bonjour QoS DDNS Bonjour Bonjour O O Off Device Name Airlive-00:1B:FE:07:1B:23 Save Cancel

UPnP Bonjour is a service that, just like UPnP, helps to find the network camera on the network. Bonjour is available for Windows, but is more commonly used for MacOS.

#### - Bonjour:

Bonjour on - Enables the service (on by default).

Bonjour off - Disables the service.

**Device Name -** Enter the name of your camera here. This is the name the Bonjour service will display. If you have more than one camera installed in your network, this is an easy way to differentiate among the cameras.



• QoS:

<b>Air Live</b>	(www.airlive.com) BU-3128 3-Megapixel motorized IR PoE IPCAM
Information Basic Setup Live View	RTSP     UPnP     Bonjour     QoS     DDNS       QoS     (Quality of Service)       O Enable QoS     Isable QoS
©Event System Maintenance Date Time	Save Cancel
Security Network Basic Network Advanced Digital I/O	
LED System Log	

Quality of Service (QoS) for networks is an industry-wide set of standards and mechanisms for ensuring high-quality performance for critical applications. By using QoS mechanisms, network administrators can use existing resources efficiently and ensure the required level of service without reactively expanding or over-provisioning their networks.

## - QoS(Quality of Service):

**QoS on -** Enables the service (on by default). **QoS off -** Disables the service.



#### • DDNS:

<b>Air Live</b>	(www.airlive.com) BU-3128 3-Megapixel motorized IR PoE IPCAM
<ul> <li>Information</li> <li>Basic Setup</li> <li>Live View</li> <li>Playback</li> <li>Event</li> <li>System</li> <li>Maintenance</li> <li>Date Time</li> <li>Security</li> <li>Network Basic</li> <li>Network Advanced</li> <li>Digital I/O</li> <li>LED</li> <li>System Log</li> </ul>	RTSP UPNP Bonjour QoS DDNS DDNS On Off Save Cancel

If you are not planning on connecting to the network camera over a remote connection, but only in your local network, you can skip this section.

Dynamic DNS is a network service that provides the capability for a networked device, such as a router or computer system, to notify a domain name server to change, in real time (ad-hoc) the active DNS configuration of its configured host names, addresses or other information stored in DNS.

In simpler terms: Users of private Internet services are often faced with a problem: The ISP typically changes the IP address assigned to the user based on a time interval. This may be as often as once every 24 hours or as seldom as once every 30 days. For the average user this is not a problem. However, if you want to be able to connect to the local camera (e.g., in your house) from a remote location (e.g., the office), you need to know under which Internet address the camera can be reached. However, you don't know what the current Internet IP address is. So you are beginning to see the problem.

DDNS solves this problem by allowing you to create a domain name for your home network, which you can always use to access the camera. To use the DDNS function, you will need to do the following two things.

First, create a DDNS hostname with a DDNS service provider

Secondly, set up a DDNS client in the home network that contacts the DDNS service provider and updates the IP information.

If the router in your home network is equipped with a DDNS client, we recommend using the router instead of the camera. Most SOHO routers are equipped with a DDNS client and since the router is in direct control of handling the Internet connection, it's the device best suited for the DDNS task.



#### - DDNS:

**Server Name -** Select the DDNS provider of your choice. In our example we use no-ip.com.

**User ID -** Enter the same user name here that you use to log in to your account settings on www.dyndns.org. Do not enter your DSL user account information here. **Password -** Enter the password for your no-ip.com user account here. Re-type the password in the field below.

**Host name -** You need to enter the full host name that you have created in your no-ip.com account here.

**Periodic Update -** You can either specify the time in minutes after which the camera will update its IP information with the DDNS provider, or you can leave the setting as "Auto", which is recommended.

Click "Save" to activate the settings. Reboot the camera to activate the DDNS settings. After a reboot you may need to wait for a few minutes before you can access the camera with the new domain name

## 5. Digital I/O.

<b>Air Live</b>		(www.airlive.com) BU-3128 3-Megapixel motorized IR PoE IPCAM
<ul> <li>Information</li> <li>Basic Setup</li> <li>Live View</li> <li>Playback</li> <li>Event</li> <li>System</li> <li>Maintenance</li> </ul>	Digital I/O Port Input 1 Input 2 Output 1	Normal       Current Status         open circuit       grounded circuit         open circuit       grounded circuit         grounded circuit       grounded circuit
Date Time Security Network Basic Network Advanced		Save Cancel
Digital I/O LED System Log		

#### Digital I/O:

If your network camera is equipped with a digital I/O interface, you can configure the connections on this page. The screen shows the current status of input 1/ input 2 and output 1/ output 2. The screen also allows you to define the "normal" state of the port. The normal state can be viewed as the "non-alert-state."



# 6. LED.

	(www.airlive.com)
Air Live	<b>BU-3128</b> 3-Megapixel motorized IR PoE IPCAM
Information	LED
Basic Setup	LED Indicator
CLive View	Show LED indicator for normal operation
O Playback	O Hide LED indicator for normal operation
© Event	
System	
Maintenance	Save Cancel
Date Time	
Security	
Network Basic	
Network Advanced	
Digital I/O	
LED	
System Log	

## • LED:

You can enable or disable the operation LEDs on your network camera. Hiding the LED indicator will make the camera appear to be offline while in fact it is operational and captures video.

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#### System Log:

Air Live	Www.airliv BU-3128 3-Megapixel motorized IR POE			
<ul> <li>Information</li> <li>Basic Setup</li> <li>Live View</li> <li>Playback</li> <li>Event</li> <li>System</li> <li>Maintenance</li> </ul>	System Log  Enable Remote Log  Save Cancel Clear			
Date Time Security Network Basic Network Advanced Digital I/O LED System Log	<pre>Aug 27 09:41:15 BU-3128-001BFE071B23 syslog.info syslogd started: BusyBox v1.22.1 Aug 27 09:41:33 BU-3128-001BFE071B23 daemon.info init: starting pid 2336, tty '': '/sbin/getty -L ttyS000 115200 vt100 -n root -I "Auto login as root"' Aug 27 09:43:05 BU-3128-001BFE071B23 user.info SD_RECORD: SD Record Success Aug 27 09:44:44 BU-3128-001BFE071B23 user.info SD_RECORD: SD Record Success Aug 27 09:46:22 BU-3128-001BFE071B23 user.info SD_RECORD: SD Record Success Aug 27 09:48:01 BU-3128-001BFE071B23 user.info SD_RECORD: SD Record Success Aug 27 09:49:40 BU-3128-001BFE071B23 user.info SD_RECORD: SD Record Success Aug 27 09:51:18 BU-3128-001BFE071B23 user.info SD_RECORD: SD Record Success Aug 27 09:52:57 BU-3128-001BFE071B23 user.info SD_RECORD: SD Record Success Aug 27 09:54:35 BU-3128-001BFE071B23 user.info SD_RECORD: SD Record Success Aug 27 09:54:35 BU-3128-001BFE071B23 user.info SD_RECORD: SD Record Success Aug 27 09:57:53 BU-3128-001BFE071B23 user.info SD_RECORD: SD Record Success Aug 27 09:57:53 BU-3128-001BFE071B23 user.info SD_RECORD: SD Record Success Aug 27 09:57:53 BU-3128-001BFE071B23 user.info SD_RECORD: SD Record Success Aug 27 09:57:53 BU-3128-001BFE071B23 user.info SD_RECORD: SD Record Success Aug 27 09:57:53 BU-3128-001BFE071B23 user.info SD_RECORD: SD Record Success Aug 27 09:57:53 BU-3128-001BFE071B23 user.info SD_RECORD: SD Record Success Aug 27 09:57:53 BU-3128-001BFE071B23 user.info SD_RECORD: SD Record Success Aug 27 09:57:53 BU-3128-001BFE071B23 user.info SD_RECORD: SD Record Success Aug 27 09:57:53 BU-3128-001BFE071B23 user.info SD_RECORD: SD Record Success Aug 27 09:57:53 BU-3128-001BFE071B23 user.info SD_RECORD: SD Record Success Aug 27 09:57:53 BU-3128-001BFE071B23 user.info SD_RECORD: SD Record Success Aug 27 09:57:53 BU-3128-001BFE071B23 user.info SD_RECORD: SD Record Success Aug 27 09:57:53 BU-3128-001BFE071B23 user.info SD_RECORD: SD Record Success Aug 27 09:57:53 BU-3128-001BFE071B23 user.info SD_RECORD: SD Record Success Aug 27 09:57:53 BU-3128-001BFE071B23 user.info SD_RECOR</pre>	~		

The Network Camera features a log function for system messages. These are system messages about the camera start-up procedure, e-mail deliveries, FTP uploads, motion detection and more. The camera stores the messages in its internal memory and displays them on the system log screen. Since memory is limited, the messages will eventually be truncated. If you need to log all the system messages on a remote server (e.g., for permanent record keeping of alarm events or for troubleshooting purposes), you can utilize the remote log functionality.

#### - System Log:

**Server Name -** Type in the network address of the system log server. Enter the address without any leading characters, such as http://.

**Server Port -** The standard port for this protocol is 514. If your system log server is set up differently, you can change the value here.

#### - Current Log:

This text box displays the real-time log of the camera messages. The remote log function uses the System Log Protocol, which is a standard for forwarding log messages in an IP network. System Log is a client/server protocol. The System Log sender (the Network Camera) sends a small (less than 1KB) textual message to the System Log server.