

**IMAGING SOLUTIONS INC.** Original Equipment Manufacturer

# 5MP Camera with Flash Instruction Manual 24C708AF

## SFT-15003 Rev 2.1.0.0 Preliminary



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## 1. Document History

Revision	<b>Issue Date</b>	Reason	CN#
	07-01-2013	Initial release	15-0003
В	06-30-2016	Software revision 2.1.0.0, updated manual (all sections) and added TWAIN instructions	16-0081

## 2. About the Camera

The 24C7085AF is a UVC compliant, robust, high resolution (up to 5 MP), USB, and autofocus camera ideally suited to Photo ID Badging applications.

The camera (and flash unit) are powered directly from the USB port of the computer and no external power supply is required.

The camera supports both raw and compressed video output.

## 3. Specifications

Image Sensor Size	1/4"	
Video Output	USB 2.0	
Compression	MJPEG / JPEG	
Data Format	YUV 422	
Resolution / Frame rate	Resolution	Frame Rate
	2592x1944	2.5
	2048x1536	2.5
	1920x1080	5
	1600x1200	5
	1280x720	7.5
	1024x768	10
	800 x 600	15
	640x 480	30
	352x288	30
	320x240	30
Image Control Functions		
Exposure	Auto/ Manual	
Focus	Auto (push to Focus)/ Manual	
White Balance	Auto/ Manual	
Brightness	via UVC Interface	
Contrast	via UVC Interface	
Hue	via UVC Interface	
Saturation	via UVC Interface	
Backlight Compensation	via UVC Interface	
Power Requirements		
Supply Voltage	5V DC (VIA USB)	
Power Consumption	<500mA	

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## 3.1. Flash Support

The camera supports one or two Videology LED Flash units.

The flash units are powered from the USB camera

#### 3.2. Still Image Capture

The camera supports a single image "snapshot" mode with optional JPEG compression.

The resolution of the still image is user definable.

#### 3.3. Camera / Flash

The camera is fully UVC compliant and all basic camera controls can be accessed via the standard UVC command protocol.

The 24C708AF camera, includes an internal processor that automatically detects when a snapshot command has been issued, and triggers the flash at the appropriate time.

Some applications however do not issue a snapshot command to the camera, and in this case, the application needs to be modified to include the necessary flash control commands.

The full capabilities of the camera can be demonstrated using the simple viewer application provided.

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## 4. Viewer Installation

The 24C708AF is shipped with a simple demonstration viewer application that can be installed by running the "**setup.msi**" file found in the accompanying CD.

If the camera is to be used with a third party application, there is no need to install the Videology software.

• Insert CD into PC. If the disc does not autorun, open folder and double click setup.msi to start the install process.

😸 Camera Viewer	
Welcome to the Camera Viewer Setup Wizard	
The installer will guide you through the steps required to install Videology Camer computer.	a View on your
WARNING: This computer program is protected by copyright law and internatio Unauthorized duplication or distribution of this program, or any portion of it, may or criminal penalties, and will be prosecuted to the maximum extent possible unc	nal treaties. result in severe civil der the law.
Cancel < <u>B</u> ack	Next >

Select "Next".

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🗒 Camera Viewer	- • •
Select Installation Folder	
The installer will install Camera Viewer to the following folder.	
To install in this folder, click "Next". To install to a different folder, enter it be	ow or click "Browse".
<u>F</u> older: C:\Program Files (x86)\Videology\CameraViewer\	B <u>r</u> owse <u>D</u> isk Cost
Install Camera Viewer for yourself, or for anyone who uses this computer:	
Everyone	
⊚ Just <u>m</u> e	
Cancel < <u>B</u> ack	Next >

Pick the file directory you would like to install Videology software. The default folder is C:\Program Files (x86)\Videology\CameraViewer\

You also have an option to install for everyone or just the user currently logged in. Choose Everyone and click "Next"

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😸 Camera Viewer	- • -
Welcome to the Camera Viewer Setup Wizard	
The installer will guide you through the steps required to install Videology Camera computer.	a View on your
WARNING: This computer program is protected by copyright law and internation Unauthorized duplication or distribution of this program, or any portion of it, may r or criminal penalties, and will be prosecuted to the maximum extent possible under	nal treaties. esult in severe civil er the law.
Cancel < <u>B</u> ack	Next >

Select "Next" to continue. Another progress window will show status of install.

😸 Camera Viewer			- • •
Installing Camera Viewer	-		
Camera Viewer is being installed.			
Please wait			
	Cancel	< <u>B</u> ack	<u>N</u> ext >

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😗 Use	r Account Control		
1	Do you want to allow the following program from an unknown publisher to make changes to this computer?		
	Program name: Publisher: File origin:	m name: C:\Users\rhenderson\Documents\_VIDEOLOGY SOFTWARE\Videology Viewers\5MP USB2 viewer\SFT-15003-Rev_2.1.0.0\Setup.msi her: <b>Unknown</b> gin: Hard drive on this computer	
💌 s	how <u>d</u> etails	<u>Y</u> es <u>N</u> o	
		Change when these notifications appear	

If a User Account Control" pop up is displayed, Click "Yes" to allow changes.

Once complete, a window will display that the 5MP Camera Viewer has sucessfully been installed.

😸 Camera Viewer			- • •
Installation Complete			
Camera Viewer has been successfully ins	stalled.		
Click "Close" to exit.			
	Cancel	< <u>B</u> ack	Close

Select "Close" to finalize the installation.

The USB camera can now be connected to the camera.

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## 5. VIS Viewer

Plug in the camera (24C708AF) via USB cable , then open the viewer.

To open the viewer, Go to Start >> All Programs >> Videology >> Camera Viewer. You should now see a window like below.



The features that are supported in the current version of installer are briefly described here.

• In the viewer's status bar the current resolution of video stream and the frame rate are displayed.

#### 5.1. Devices

When user clicks on Devices menu all the video devices connected to the PC will be enumerated and listed. A check mark will be placed alongside the camera whose images are being displayed in the window.

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## 5.2. Options

When user selects options menu, the below menu appears.



#### 5.2.1. Video Renderer

The video renderer properties that are displayed after being selected are shown in figure 5. The renderer properties include Frames played, average frame rate achieved, etc. All the values displayed are for the currently selected camera.

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## 5.2.2. Quality

VIS Viewer	
File Devices Options Capture Focus UVC Extension Video Renderer	Help
Video Source Properties       Quality     DirectDraw     Performance	355563     0       16.87     0       0     0
Std dev sync offset (mSec)	Cancel Apply
Resolution : 040X480	

## 5.2.3. Direct Draw

The Direct Draw tab shows the enabled options and current capabilities of the DirectDraw plugin.

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VIS Viewer		
File Devices Op	Video Renderer	
	Video Source Properties     Quality   DirectDraw     Performance Attributes     Image: Enable scan line checking when drawing     Image: Check hardware overlay limitations     Image: Disable display mode changes for fullscreen playback	
	OK Cancel Apply	
Resolution : 640x480		

## 5.2.4. Performance

VIS Viewer File Devices Options Capture Focus UVC Extension Help	
Video Renderer	
Video Source Properties	
Quality DirectDraw Performance	
DirectDraw options DirectDraw Capabilities	
Image: Tot V ripping (Hardware capabilities)   Image: RGB Ripping DDCAPS_3D   Image: VUV Overlays DDCAPS_BLT   Image: RGB Overlays DDCAPS_BLT	
Image: YUV Offscreen DDCAPS_BLTQUEUE   Image: RGB Offscreen DDCAPS_BLTFOURCC   Image: DDraw Primary Hardware   Image: Hardware Emulation	
OK Cancel Apply	
Resolution : 640x480	1.

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## 5.3. Video Capture Filter

#### 5.3.1. Video Proc. Amp

On selecting Video Capture Filter, a dialog will be launched which displays 2 kinds of video capture filter properties.

- a) Video Proc Amp Settings
- b) Camera Control Settings
- a) Video Proc Amp Settings

The user can adjust the Video proc amp settings in the dialog. Only sliders whose labels are not grayed out can be configured. The user can move the slider and configure the preview settings according to their needs.

The value being set will be displayed in the text box associated with the slider. As soon as the slider is moved to configure the values, the preview's property will instantly change, Clicking Apply button saves changes until the next time the dialog is opened.

e Devices Op	otions Capture Focus UVC Extension Help	
	Video Capture Filter	
	Properties	
	Video Proc Amp Camera Control	
	Brightness	- 7
	Contrast	- 13 F
	Huej	
	Saturationj	- 4 -
	Sharpnessjj	- 2 F
	<u>G</u> amma	- 150 F
	White Balance	4379
	Backlight Comp	
	<u>G</u> ain]	- 34
	ColorEnable DewerLine Frequence (Anti Flicke	cy 50 Hz ▼ er)
	Default	
	ОКС	Cancel Apply

b) Camera Control

To configure the camera control settings of the video capture filter the user can click on the Camera Control tab. Once again slider control will allow the user to configure the camera settings according to their need.

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Video Renderer Video Capture Filter	
Properties	<b></b>
Video Proc Amp Camera Control	
	Auto
Zoom 1	Г
Eocus J o	
Exposure	4 🔽
(Iris)	[
Pan J	[
	[
Compensation Default	
OK Can	cel Apply

#### 5.4. Video Capture Pin

#### 5.4.1. Stream Format

On clicking the video capture pin sub menu a dialog box will be opened so that user can configure the output size and compression features of stream format. The preview running in the main application will be stopped until the video capture pin dialog box is active. Once the dialog box is closed preview will start automatically. The available output size and color spaces will be listed in the combo box. After selecting the required output size and color space, the user must press the Apply button to configure the changes. Pressing Ok will start previewing the video stream with newly configured output size and compression values. At any point in time the user can click on the Cancel button to exit the dialog and start the preview.

The window will be resized to the same size as that of the video stream output format.

Video window height and width is reduced/enlarged according to selected output size of video stream as shown in figure below.

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VIS Viewer File Devices	Options Capture Focus UVC Extension Help	×
	Video Renderer Video Capture Filter Video Capture Pin	
	Properties	
	Stream Format     Video Format     Video Standard:   None     Frame Bate:   30,000 +     Elip Horizontal:   Snap Shot     Color Space / Compression:   +     YUY2   +     Output Size:   Quality:     640 x 480   +	
	OK Cancel Apply	
lesolution : 640x	480	/

## 5.5. Still Capture Pin

On clicking the still capture pin sub menu, a dialog box will be opened so that the user can configure the output size and compression features of the still capture pin. The preview running in the main application will be stopped till the still capture pin dialog box is active. Once the dialog box is closed preview will start automatically. The available output size and color spaces will be listed in the combo box. After selecting the required output size and color space, the user must press the Apply button to configure the changes. Pressing Ok will start previewing the video stream with newly configured output size and compression values.

At any point of time the user can click on Cancel button to exit the dialog and start the preview.

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VIS Viewer		
File Devices	Video Renderer Video Capture Filter Video Capture Pin	
	Still Capture Pin	
	Still Pin Properties	
	Still Capture   Color Space/Compression:	
	Output Size: 2592x1944 💌	
	OK Cancel Apply	
solution : 640	x480	/

## 5.6. Current Settings

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On selecting the current settings sub menu a dialog box will be opened which will list out all the currently configured values for the device. The user can see all the properties configured and the affects on the video that is rendered onto the application window.

Current Settings			
Still Resolution	2592x1944	Brightness	7
Video Resolution	640x480	Contrast	13
StillPath	C: \Program Files	Saturation	4
Focus Mode	AF is Manual	Sharpness	2
Firmware Version	2014, 12, 5 Ver 13	Gamma	150
Sensor ID	5640	WhiteBalance	Auto
Still Format	MJPG	Focus	0
Video format	YUY2	Exposure	Auto
	ОК		
Resolution : 640x480			

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## 5.7. Capture

The Capture Menu has 2 options.

- Get Still (Enter)
- Set File Path

## 5.7.1. Get Still (Enter)

The user can capture the still image from the still pin by selecting this menu or pressing Enter key through the keyboard. The image will be saved in the desktop directory by default. The user can configure which folder to save images by clicking on the still file path and configuring the directory as required. The file name of the image saved will be the current timestamp.



## 5.7.2. Still File Path

By using this menu the user can set up the folder where the images captured will be saved. The user can browse the required directory so that future images captured will be saved in that folder.

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#### 5.8. Focus

#### 5.8.1. Trigger AutoFocus

The 24C708AF is fully UVC compliant. All basic camera controls can be accessed via the standard UVC command protocol.

#### Focus

Focus is achieved by selecting the Focus tab on the menu and pressing the "Trigger Focus" command.

Alternatively please note that Focus is a standard UVC supported command. However, depending upon the software package being used, the focus menu item can be difficult to find. For example, in AMCap, the focus command is located as follows:

Options > Video Capture Filter > Video Proc Amp > Camera Control > Focus

Since the 24C708AF UVC compliant USB2 camera is a push to focus device, the user must toggle the focus flag from "0" to "1" in order to initiate a focus. If the focus flag has been left at a "1", the user must first set it to "0" and then to "1".

#### Flash

Please note that automatic FLASH control is not a standard UVC supported command and is not included as part of the standard UVC interface.

To overcome this problem, the 24C708AF includes an internal processor that automatically detects when a snapshot command has been issued, and triggers the flash at the appropriate time. Some applications, however, do not issue a snapshot command to the camera, and in this case, the application needs to be modified to include the necessary flash control commands.

The full capabilities of the camera can be demonstrated using the simple viewer application provided.



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## 5.9. UVC Extension

On selecting the UVC Extension menu, the UVC Extension Control dialog box will open. The UVC Extension library has the features mentioned below:

- Auto Focus Status
- Auto Focus Trigger
- Focus Mode
- Update GPI Status
- Set / Clear GPO's
- Get Sensor ID
- Get Firmware Version

File Devices Options Cap UVC Extension Controls	ture Focus UVC Ex	tension Help		
Auto Focus				
AF Status	AF Trigger Focus M	ode		
Flash Control				
Flash ON				
C Flash OFF		-	YAN	
			201	
Debug Control			MAL	
Sensor ID	Firmware Ver			
		1		
			~	
		Million and		
		Cole:S		
				The Aller Market Market

## 5.9.1. AF Status

The AF Status button shows the current auto focus status.

The possible focus status is shown below.

- AF is Manual
- AF is Single Trigger Focusing
- AF is Single Trigger Focused

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#### 5.9.2. AF Trigger

Focuses the camera (no screen shot) The AF Trigger button will perform a Single Trigger Auto Focus.

The Focus Mode button opens the Focus Mode Dialog to perform Auto Focus and Manual Focus. It contains two Radio buttons. 1) Auto Focus 2) Manual Focus. The Auto focus Radio button is selected by default.

On selecting the Auto Focus radio button the slider control and edit box will be disabled. Those controls will be enabled once the manual focus radio button is selected

Select the Auto Focus radio button and click the Apply button to set the Auto Focus mode.

Select the manual focus radio button to enable the Slider control and edit box. Slide the slider to set the manual focus. The slider position (Manual Focus Position) displays in the edit box. The Manual focus will be set after the user leaves the slider in the desired position.

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## 5.9.3. Flash Control

Flash Control command is not configured with this model.

## 5.9.4. Debug Control

5.9.4.1. Sensor ID

The Sensor ID button will display the current sensor id details. For the 24C708AF USB camera the id is shown below:

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#### 5.9.4.2. Firmware Ver

The Firmware Ver button will display the current firmware version details. For the 24C708AF USB camera the firmware version is shown below:



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## 5.10. Help

Help will show the current version of the 24C708AF viewer.



About ...



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## 6. TWAIN Installation

To install the TWAIN data source, double click the executable file named **SetupGTDS.exe**. *Note: the file name might be slightly different depending on the revision level of the software.* 

If a User Account Control" pop up is displayed, Click "Yes" to allow changes.

📵 Use	r Account Control	
	Do you want unknown puł	to allow the following program from an olisher to make changes to this computer?
	Program name: Publisher: File origin:	SetupGTDS.exe <b>Unknown</b> Downloaded from the Internet
💌 s	how <u>d</u> etails	Yes No
		Change when these notifications appear

The following window will appear:

🖁 Generic TWAIN Data Source Setup: Installation Folder	- • •
This will install the Generic TWAIN Data Source on your choose a directory to hold the viewer files:	computer. You may
Destination Folder	Browse
Space required: 4.6MB Space available: 192.6GB	
Cancel Nullsoft Install System v2.46	Install

If the viewer is to be installed in a location other than the default directories, click on the **B**<u>r</u>**owse** button and specify the desired location, otherwise click on the **Install** Button and the following screens will appear:

🖓 Generic TWAIN Data Source Setup: Completed	
Completed	
Show <u>d</u> etails	
Cancel Nullsoft Install System v2.46 < Bac	k Close

The TWAIN driver installation is now complete. Click **Close** to exit the hardware wizard.

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## 7. Using the TWAIN Interface

If the Twain interface **(SFT-10011)** is installed, the camera can be used with any TWAIN Compliant Application.

The TWAIN interface will attach itself to the first Videology camera it finds connected to the computer. For best operation, run the TWAIN Interface on a system that has only one Videology camera installed.

Any application that supports a TWAIN Data Source as a capture device can access the camera. The camera's image will appear as shown below:



## 7.1. ZOOM FEATURE

The Optical zoom function is basically used to frame the subject within the field of view (FOV). The subject may be of differing height, distance, or position within the FOV, and the optical zoom provides a means of sizing and positioning the frame so as to provide an image of the correct proportions.

With no optical zoom capability within the camera, we need to provide some other means of framing the image to the size and proportions required.

One option would be to provide real time *digital* zoom, but doing this within the live video stream is problematic and would result in reduced frame rates, and somewhat jerky video.

An alternative approach is to provide a means of defining the size and position of the captured image within the streaming video. This is somewhat analogous to aiming and zooming the camera with the optical zoom.

#### 7.2. Mode of operation

#### 7.2.1. Preview mode

The streaming video is shown in  $640 \times 480$  resolution.

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The operator would view the subject in preview mode and then drag a box over the image to define the capture area. The box can be of any size and location within the image.

The still image would be captured at full resolution ( $2592 \times 1944$  pixels) and automatically cropped to the size defined by the box drawn in the preview mode as shown below.



Image in Streaming Video



Captured Still Image

If for example, the box drawn in the preview mode was half the height and half the width of the full screen then the captured image would have a resolution of 1296 x 972 pixels. This could of course be reduced in resolution if required.

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## 8. Contact Information

For technical assistance with this product, please contact the supplier from whom the product was purchased.

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