Q·see®
simplicity - quality - technology

User Manual

MODEL QD6001D
QD6002D
QD6003D
QD6004B
QD6005B
QD6501B
QD6502B
QD6503X

High-Resolution Security Cameras

Thank You for Choosing a Q-See Product!

All of our products are backed by a conditional service warranty covering all hardware for 12 months from the date of purchase. Additionally, our products also come with a free exchange policy that covers all manufacturing defects for one month from the date of purchase. Permanent upgrading service is provided for the software and is available at www.Q-See.com.

Be certain to make the most of your warranty by completing the registration form online. In addition to warranty and technical support benefits, you'll receive notifications of product updates along with free downloadable firmware updates for your DVR. Register today at www.Q-See.com!

Please see the back of this manual for exclusions.

Q

ONLINE
PRODUCT REGISTRATION

Register your product to receive
important downloads and updates.

www.q-see.com

Qsee

About this Manual

This manual is written for the QD6000 series of high-resolution cameras and was accurate at the time it was completed. However, because of our ongoing effort to constantly improve our products, additional features and functions may have been added since that time and on-screen displays may change. We encourage you to visit our website at www.Q-See.com to check for the latest firmware updates and product announcements. You can also find technical details for your specific camera on its product page at our site.

Throughout the manual we have highlighted warnings and other important information that will assist you in operating your new system in a safe and trouble-free manner. Please take the time to read and follow all instructions and pay attention to alerts as shown below:

> **IMPORTANT!** Red boxes with this icon indicate warnings. To prevent possible injury or damage to the product, read all warnings before use.

> **NOTE!** Text in blue boxes with the Information icon offer additional guidance and explanations about how to make the most out of your system.

Rev. 1.0 8/19/11

TABLE OF CONTENTS

INTRODUCTION

For your safety

To prevent damage to your Q-See product or injury to yourself or to others, read and understand the following safety precautions in their entirety before installing or using this equipment.

> ⚠️ **WARNING! ELECTRIC SHOCK RISK!** ⚡

- Care should be taken during transportation, storage and installation of this camera to avoid rough handling, dropping, or other abuse in order to prevent damage to the optics or components inside the camera.

- Camera should be installed in accordance with electrical standards including keeping the camera and cable away from high voltage, using a surge protector and using only the rated power supply.

- Do not use strong or abrasive cleaners on camera body or lens. Use a damp cloth for cleaning the housing and a lens cloth for the optics.

- Do not attempt to disassemble the camera. Only authorized, trained technicians should service this camera.

- Cameras should not be immersed in water and should be mounted in a sheltered location. Do not point camera directly at the sun or other strong light source.

Product Features

These cameras offer the following features:

- Ultra high definition video using 1/3" Sony HAD CCD II coupled with the latest Sony Effio-E digital signal processors to produce 600 and 650 TV lines of resolution.

- State-of-the-art IR cut filter to ensure accurate color representation during the day and sharper images at night.

- Low light and infrared operation. The camera takes advantage of even low levels of ambient lighting to produce images with color.

- Automatically switches to infrared (black and white) mode when no light is detected.

- Infrared illumination (excludes QD6305X).

- Built-in motion detection. The camera can be set to respond to motion even without being connected to a DVR.

- On-Screen Display (OSD) allows you to configure the camera using the built-in thumbstick when connected to a monitor.

- Multiple language support; English, Spanish, French, Russian, Portuguese, German, Chinese and Japanese.

- Customizable settings: WDR (wide dynamic range), White Balance, Contrast, Shutter Speed, Sharpness, etc.

- Highlight Compensation. Excessive light, such as headlights, can be masked if desired.

- Manually adjustable 2.8mm to 12mm varifocal lens and focus.

- High-speed Moving Object Capture function allows clear images of objects moving at high speed.
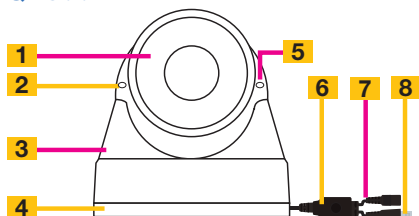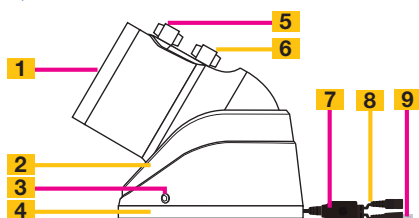
COMPONENTS AND CONNECTION

QD6001D
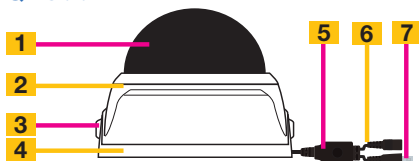
#	Component
1	Clear Dome
2	Case
3	Base Release Screw (both sides)
4	Mounting Base
5	Multi-Function Button
6	Power Connector
7	Video Connector (BNC)

QD6002D

#	Component
1	Optics (lens and IR LEDs)
2	Focus (behind rubber plug)
3	Body
4	Mounting Base
5	Zoom (behind rubber plug)
6	Multi-Function Button
7	Power Connector
8	Video Connector (BNC)

QD6003D

#	Component
1	Optics (lens and IR LEDs)
2	Body
3	Base Release Screws (3)
4	Mounting Base
5	Zoom Knob (2.8mm - 12mm)
6	Focus Knob
7	Multi-Function Button
8	Power Connector
9	Video Connector (BNC)

QD6004B AND QD6501B
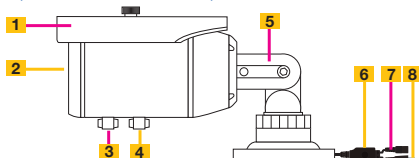
#	Component
1	Adjustable Sun Shade
2	Optics (lens and IR LEDs)
3	Zoom Knob (2.8mm - 12mm)
4	Focus Knob
5	3-Axis Mounting Bracket
6	Multi-Function Button
7	Power Connector
8	Video Connector (BNC)

QD6005B AND QD6502B
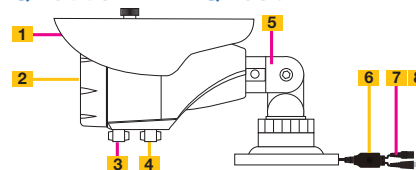
#	Component
1	Adjustable Sun Shade
2	Optics (lens and IR LEDs)
3	Zoom Knob (2.8mm - 12mm)
4	Focus Knob
5	3-Axis Mounting Bracket
6	Multi-Function Button
7	Power Connector
8	Video Connector (BNC)

QD6503X
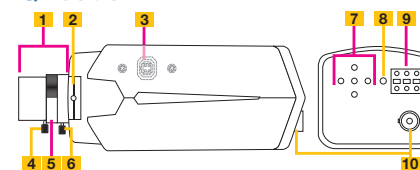
#	Component
1	CS Lens (packaged separately)
2	Lens Mount Spacing Adjustment
3	Auto Iris Port (on right side)
4	Focus Adjust
5	Iris Adjustment Ring
6	Zoom
7	Multi-Function Controls
8	Power Status Indicator
9	Power Connection
10	Video Connector (BNC)

INSTALLING YOUR CAMERA

When installing your camera, it is important to select a proper site not only for field of view, but for other considerations as well:

Distance from viewing/recording device. The further the camera is from the DVR or monitor, the higher the chances of signal degradation. Typical 75Ω Video Cable provides acceptable signal at distances up to 200' (30m). At greater distances, UL-Listed shielded RG59 should be used. The camera's power supply should be located as near to the camera as possible when the distance exceeds 200' as the power level will drop over extended distances resulting in a decrease in video quality and IR LED range.

Do not place near high voltage wires or other sources of electrical interference. Electrical interference will degrade the quality of the signal.

Place camera out of reach to avoid damage.

Avoid direct exposure to weather. Do not place the camera where rain or snow will hit the lens directly nor should the camera be placed so that the sun or bright light shines directly into the lens. Indoor cameras should never be placed outside. Weatherproof cameras will not work when submerged. Ensure that all power and video connections are not directly exposed to water and are protected from the elements.

Do not place camera behind a window. The IR LEDs act like a flashlight and will create a reflection that will obscure events on the other side of the glass.

Light levels should be approximately the same between camera and target area. A camera in a brightly-lit area looking into a shaded area, or vice versa, will produce inadequate results.

DOME CAMERAS (QD6001D, QD6002D and QD6003D)

STEP 1. The mounting base on the dome cameras will need to be removed prior to installing the camera. The method for removing the base varies by the model:

QD6001D - Using the included hexagonal wrench, unscrew the two bolts from the side of the camera.

QD6001D Base

QD6002D - The base of this camera unscrews from the rest of the body.

QD6003D - Using the included hexagonal wrench, unscrew the three hex screws located around the sides of the camera.

QD6003D Base

STEP 2. Once the base has been removed, position it where you want to mount the camera and use it as a template to mark where to drill the holes for the included mounting screws.

STEP 3. Remove base and drill out holes

STEP 4. Insert plastic expanders into holes

STEP 5. Use included screws to mount base to surface.

STEP 6. Attach camera to base.

BULLET CAMERAS (QD6004B, QD6005B, QD6501B, QD6502B and QD6503X)

STEP 1. At the desired location, use the included mounting template to drill the holes for the mounting screws

STEP 2. Insert the plastic expanders into the holes

STEP 3. Mount the camera using the included screws.
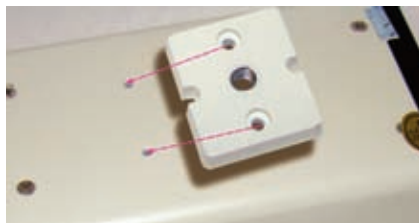
QD6503X

This indoor camera requires a screw-type mounting rod (available separately)

STEP 1. Install the rod mount as directed.

STEP 2. Attach the included mounting bracket to the underside or top of the camera as needed with the included screws
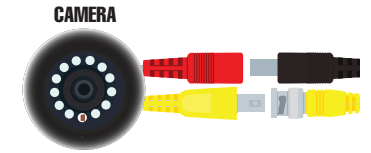
STEP 3. Attach camera to mounting rod.

QD6503X Mounting Bracket

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CONNECTING THE CAMERA TO A SECURITY DVR SYSTEM

STEP 1. Connect the BNC and power leads from the camera to the matching connectors on one end of the power and video cable.
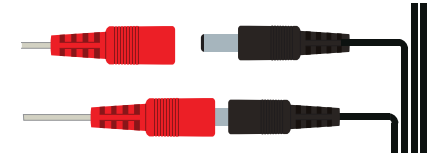

CAMERA

The **QD6503X** requires a special adapter (included). The two bare wire ends must be inserted into the Positive (+) and Ground (⏚) ports on the power input box at the back of the camera. The power cable plug connects to the attached female power jack on this adapter.

 IMPORTANT! When connecting the power and video cable between the camera and the DVR, the "male" power end (red plug in the illlustration) connects to the matching power lead on the camera.

STEP 2. For multi-camera packs, connect the power lead on the other end of the cable to the plug from the power splitter. Or, if your package includes a power distribution panel, connect the power lead to one of the power jacks on the panel. Proceed to **Step 4**, below.

For single camera packages, connect the power lead to the power adapter itself. In this case, you may skip to **Step 4**.
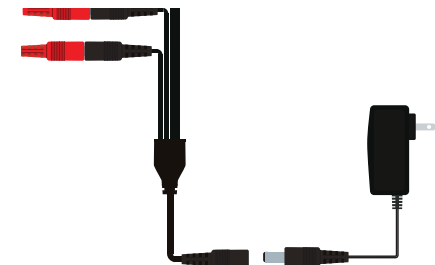
STEP 3. Connect the power lead on the power splitter to the camera power adapter. **DO NOT** plug the adapter into an outlet at this time.

STEP 4. Connect the BNC connector on the other end of the video/power cable to a **Video In** port on the back of the DVR.

Repeat Steps 1 through 4 for all cameras before continuing.

STEP 5. Plug the power adapter into a surge protector* or turn on the power panel.

When selecting a surge protector, it is STRONGLY recommended to use one that is UL-1449 rated, for a clamping voltage of 330 or lower, a Joule rating of at least 400 and a response time of 10 nanoseconds or less.

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CONNECTING THE CAMERA TO A TV OR MONITOR

A single camera can be connected directly to a monitor or TV with an RCA input using the included cable and a separately available adapter if needed.

STEP 1. Connect the camera to the cable and power supply as described in Steps 1, 2 and 5 above before connecting it to your video display.

STEP 2. Connect the camera to the "Video In" port on the monitor or television.

CAMERA   **TV or MONITOR**
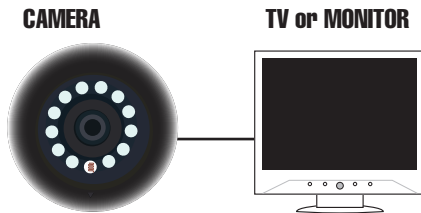
For Television: You may need to tune or select the correct INPUT (i.e.; A/V, L1, L2, Source) Consult your television's manual for details.

Depending on your TV or monitor, you may need to use a BNC-to-RCA adapter (not included) to connect the BNC connector on the video/power cable to your screen.

CONTROLLING YOUR CAMERA

The camera's on-screen menu is accessed by the multifunction button attached to the camera cable. In the case of the QD6503X, a group of five buttons makes up the multi-function controls. The operation of both types of control is similar.

To access the on screen display, press the control or menu button. This will bring up the menu on your system's monitor or other attached display. This button also acts as the "**Enter**" button when setting your parameters.

Navigate through the menu using the directional controls. The cable-mounted multi-function button acts as a miniature joystick allowing you to move up, down, left or right through the menu and submenus. On the QD6503X, pressing the individual directional buttons will move you through the on screen display.

In addition to the on-screen settings, you can adjust the camera's zoom, focus, and in some cases the light level (iris). These adjustments can be made externally with the exception of the QD6001D which will require removal of the dome to adjust.

Cable-Mounted Multi-Function Button
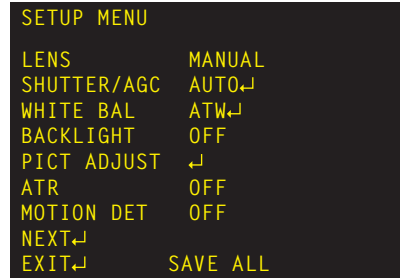
QD6503X Multi-Function Controls

OPERATION

The On Screen Display (OSD) built into your camera allows you to control almost every aspect of how it captures images. Using the built-in menus, you can control brightness, contrast, white balance, shutter speed and other functions.

It should be noted that these settings must be made at the camera itself and they cannot be set remotely. When used with a security DVR system, what you see on the screen will be what is recorded - including the OSD menu. In fact, use of the OSD can trigger motion detection so it may be advisable to temporarily disconnect/disable alarms or notifications when working in the OSD menu.
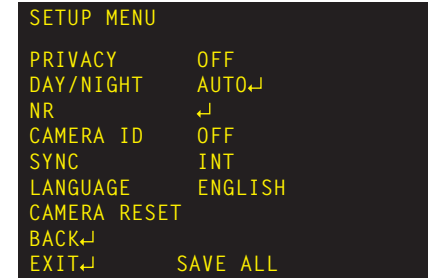
When saved using the "Save All" command, settings will be stored on the camera even in the event of power loss. Once power is restored, the camera will continue to operate according to your settings. You can revert to the factory default settings by selecting "Camera Reset" in the menu.

SETUP MENU

Pressing the multi-function or **Menu** button (depending on model) will open the OSD to the first page of the Setup Menu. The menu will appear over the video image being delivered by the camera.

```
SETUP MENU

LENS        MANUAL
SHUTTER/AGC AUTO↵
WHITE BAL   ATW↵
BACKLIGHT   OFF
PICT ADJUST ↵
ATR         OFF
MOTION DET  OFF
NEXT↵
EXIT↵       SAVE ALL
```
Page 1

```
SETUP MENU

PRIVACY     OFF
DAY/NIGHT   AUTO↵
NR          ↵
CAMERA ID   OFF
SYNC        INT
LANGUAGE    ENGLISH
CAMERA RESET
BACK↵
EXIT↵       SAVE ALL
```
Page 2

To change a setting, scroll to the desired item until it is highlighted and press right or left to select the desired value. Menu options with a "↵" indicate that there is a submenu. Clicking on an item with that option will take you to the submenu. Move between the two pages using **NEXT** or **BACK** as appropriate.

LENS

This turns the auto iris feature on or off. The iris controls the amount of light entering the lens, or exposure. Only the QD6503X has the capability to use this feature, but it will require an automatic lens which is available separately. With such a lens attached, you can select;

TYPE - **DC** (direct current) or **VIDEO** (video control) of the iris.

MODE - **AUTO** (automatically adjusts), **OPEN** (always opened) or **CLOSE** (always closed).

SPEED - When the mode is set to **AUTO**, this controls the sensitivity of the lens with a value ranging from 0 to 255.

```
AUTO IRIS

TYPE        DC
MODE        AUTO
SPEED       ▋▋▋▋▋▋▋▋080


RETURN↵
```
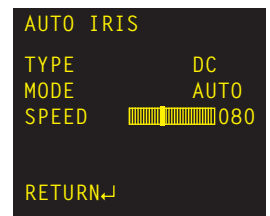
SHUTTER/AGC

The Shutter setting controls how much light is used to "expose" each frame while AGC, or Automatic Gain Control "amplifies" the image to show more detail. As a general rule, the AUTO setting will be sufficient as the camera will automatically adjust to changing light levels. In the rare situation where automatic settings aren't ideal, you can chose to adjust the automatic settings or manually set the values by selecting AUTO↵ or MANUAL respectively.

Auto Setup

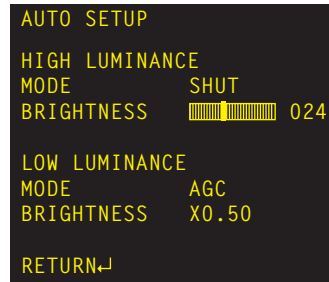The image at right shows the default settings. In this menu, you can adjust how the camera behaves in brightly lit or dark situations by adjusting the Shutter from 0-255 with zero being the darkest. The AGC amplification can be turned off or it can be set from x0.25 to x1.00 but the higher the amplification, the higher the "noise" in the image.

```
AUTO SETUP

HIGH LUMINANCE
MODE         SHUT
BRIGHTNESS   ▮▮▮▮▯▮▮▮▮▮▮▮ 024

LOW LUMINANCE
MODE         AGC
BRIGHTNESS   X0.50

RETURN↵
```

Manual Setup

The shutter speed can be set from 1/60 second to 1/10,000 second going from lighter to darker with the higher speed. AGC's value can range from 6.00 to 44.8.

If there is a video monitor within the camera's field of view, setting the shutter to 1/100 (NTSC) or 1/120 (PAL) will reduce the flicker on the screen.

```
MANUAL SETUP

MODE         SHUT+AGC
SHUTTER      1/60
AGC          6.00

RETURN↵
```
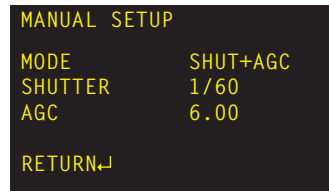
WHITE BALANCE

There are seven modes available for determining how your camera processes and displays color:

ATW - Automatic Tracking White Balance. This is the default the camera constantly analyses and adjusts to create a neutral white balance. Colors may be slightly underexposed but generally accurate. Several settings can be modified, but the most significant is the Environment setting which adjusts the white balance based on the light source. Daylight generally has a bluish tint while indoor lighting will tend towards yellow (light bulbs) or green (fluorescent).

```
ATW

SPEED        ▮▮▮▮▮▮▮▮▮▮▮▮▯ 239
DELAY CNT    ▯▮▮▮▮▮▮▮▮▮▯▯ 016
ATW FRAME    X1.00
ENVIRONMENT  INDOOR

RETURN↵
```

PUSH - Working in a narrower band of lighting - 2300K-10000K - it may over-compensate the white balance if the field of view includes a large, single-colored object. However, it is the preferred mode for areas illuminated by halogen lights.

USER1 & **USER2** - These are user defined modes The blue and red gains can be adjusted.

ANTI CR - (Anti Color Rolling) Reduces color rolling in areas illuminated by fluorescent lights.

MANUAL - Adjust the setting from 0-255 to best suit your personal preference.

PUSH LOCK - Locks in the white balance at its current level. This can be set by holding a piece of white paper in front of the camera. Pushing the multi-function button will then establish the white balance. Use this when the lighting is constantly changing or the area surrounding the object under observation is over- or under-lit
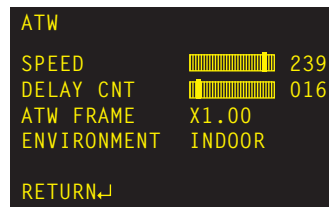
BACKLIGHT

This allows the camera to compensate for lighting coming from behind the subject as well as bright light sources within the image. Backlight compensation can be left turned off, turned on (BLC) or set to Highlight Compensation (HLC) which masks overly bright light sources in the image, making certain features easier to make out.

BLC Off

BLC On

HLC Off

HLC On

PICTURE ADJUST

This setting allows you to adjust the way the picture is displayed on your screen. Changes made will not affect what the camera captures. You can adjust brightness, contrast, sharpness, hue and gain with values from 0-255. You can also flip the image horizontally using the **Mirror** setting.

ATR

Adaptive Tone-curve Reproduction (ATR) attempts to show details in both the well-lit and shaded areas simultaneously for a more complete view. When enabled, both luminance and contrast can be adjusted to produce a more balanced image.

ATR On

```
ATR

LUMINANCE    MID
CONTRAST     MID

RETURN↵
```
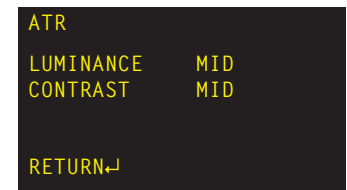
MOTION DETECTION

Unlike most security cameras, your camera is capable of detecting motion by itself. If you are connecting your camera to a Q-See security DVR, you will not need to enable this feature as the DVR itself has motion detection capabilities. Enabling motion detection on the camera while connected to a security DVR can produce adverse results by obscuring the recorded video or generating artifacts which the DVR will interpret as motion causing it to record unnecessarily.

DETECT SENSE - The camera's level of sensitivity to motion. The value range is 0-127.

BLOCK DISP - If this is turned on, the camera will generate pixelated blocks to highlight motion within its view. It should be noted that if you have this enabled while the camera is connected to a security DVR, the DVR will record the blocks as part of the video and these cannot be removed from the recording.

MONITOR AREA - When enabled, you may select up to four areas where motion will be detected.

```
MOTION DETECT

DETECT SENSE  ▊▊▊▊▊▊▊ 111
BLOCK DISP    OFF
MONITOR AREA  OFF
AREA SEL      1/4
   TOP        ▊▊▊▊▊▊ 000
   BOTTOM     ▊▊▊▊▊▊ 000
   LEFT       ▊▊▊▊▊▊ 000
   RIGHT      ▊▊▊▊▊▊ 000
RETURN↵
```

AREA SEL - This indicates which of the four motion detection areas you are working on.

TOP, BOTTOM, LEFT, RIGHT - These settings are used to define the size of the motion detection area.

PRIVACY

This allows you to set up areas within the camera's view that will be blocked from observation. This may be the location of a combination lock, keypad or other area that requires privacy. Like Motion Detection above, use of this feature is not recommended when the camera is connected to a security DVR as it will create artifacts on the video recording which cannot be removed.

AREA SEL - This indicates which of the eight motion detection areas you are working on.

TOP, BOTTOM, LEFT, RIGHT - As in Motion Detection, these settings are used to define the size of the motion detection area.

COLOR - The zone may be set to one of eight colors; red, green, blue, light green, light blue, light red, white and black.

TRANSPARENCY - This sets the opacity of the privacy block.

MOSAIC - Events occurring in the privacy area are pixelated.

```
PRIVACY

AREA SEL      1/4
   TOP        ▊▊▊▊▊▊ 000
   BOTTOM     ▊▊▊▊▊▊ 000
   LEFT       ▊▊▊▊▊▊ 000
   RIGHT      ▊▊▊▊▊▊ 000
COLOR         1
TRANSP        1.00
MOSAIC        OFF
RETURN↵
```

DAY/NIGHT MODE

This allows you to set the camera to switch automatically from day to night mode (the default) or to permanently set it to Color or B/W operation. Please note that even when the camera is set to Color mode, it will switch to black and white night vision when there is no longer enough ambient light to support color video.

You can adjust the automatic settings.

BURST - This is a signal sent out by the camera even when no color information is available. Some DVRs or security video capture cards may require this to recognize the camera. Q-See security DVRs do not need a burst signal and it may be turned off.

DELAY CNT - The time interval delay before switching from day to night mode.

```
DAY/NIGHT

BURST        ON
DELAY CNT    ▊▊▊▊▊▊ 003
DAY→NIGHT    ▊▊▊▊▊▊ 003
NIGHT→DAY    ▊▊▊▊▊▊ 003


RETURN↵
```

DAY→NIGHT - Sets the threshold level for when the camera should switch to night mode.

NIGHT→DAY - Sets the threshold level for when the camera should switch to day mode.

The value range for both thresholds is 0-255.

> **IMPORTANT!** The DAY→NIGHT and NIGHT→DAY operations should be tested during installation. Block the lens for a few seconds to force a switch to night mode. Once the lens is unblocked, the camera should switch back to day mode in less than 10 seconds. If it does not, slightly increase the threshold in the NIGHT→DAY setting. A dimly lit area or a very low iris setting may also prevent a return to day mode.

NR (NOISE REDUCTION)

In low-light situations, there may be an increase in "noise" (graininess or random speckles in the video). Noise reduction can be turned off or set to reduce noise in the black and white (Y) and/or color (C) portions of the signal. The value ranges for both the Y and C filters is 0-15. The higher the value, the more noise is reduced, but this can reduce image sharpness.

```
NR

NR MODE      Y/C
Y            ▊▊▊▊▊▊ 004
C            ▊▊▊▊▊▊ 004


RETURN↵
```

CAMERA ID

You can enter an identifying name for your camera that will appear over the video image if you so choose. This will appear in addition to any similar identification made using a DVR. You can enter two lines of text with up to 26 characters each. Currently, only one such identification field - CHR1 - is supported.

To enter text, use the multi-function button to navigate to the desired character and then press the button to enter it and the cursor will advance to the next position in the name. The arrow buttons will allow you to move the cursor within the camera name including to the next line. Spaces can be entered using the **CLR** button or the right arrow button.

```
CAMERA ID

CAMERA

ABCDEFGHIJKLMNOPQRSTUV
WXYZ0123456789-!"#$%&'
()_`,¥:;<=>?@\^*.x+/
        CHR1  CHR2
←→↑↓  CLR  POS↵
RETURN↵
```
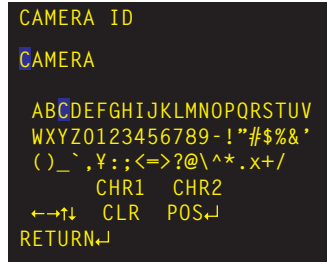
Clicking on **POS↵** will open a new window to allow you to position the name anywhere on the screen (space permitting). Simply move the name around the screen using the multi-function button. Clicking the multi-function button will return you to the ID setup window.

SYNC

The camera is internally synchronized and this cannot be changed.

LANGUAGE

Select your preferred language; English, Spanish, French, Russian, Portuguese, German, Chinese and Japanese.

CAMERA RESET

This allows you to reset the camera back to factory default settings.

IMPORTANT! After making changes to the settings, select **SAVE ALL** to retain these in the camera in the case of power failure.

TROUBLESHOOTING

Problem	Solution
No picture or unstable image	Check both the power and video connections to the camera.
The on-screen image is blurry.	1. Check the camera focus. 2. Check for fingerprints or dirt on the lens. 3. Check menu settings.
The on-screen image is dim.	1. Check for fingerprints or dirt on the lens. 2. Check monitor settings 3. Check camera SHUTTER/AGC settings.
The on-screen image is dark.	1. Adjust the monitor contrast settings. 2. Adjust camera SHUTTER/AGC settings.
The on-screen image color is incorrect.	Check camera WHITE BAL setting.
The on-screen image has a lot of noise.	1. Check camera Noise Reduction settings 2. Check camera auto gain setting in SHUTTER/AGC menu.
No motion detection or privacy frames.	Check whether those settings have been enabled.
The screen flickers.	Camera may be facing sun, television or computer monitor.
The IR LEDs will not light up	1. Check the power connection to the camera. 2. Power supply may need to be located closer to camera. 3. Change DAY/NIGHT mode on camera to AUTO or B/W mode
The camera is not working properly, is hot, smells or is producing smoke.	**DISCONNECT CAMERA FROM POWER SUPPLY IMMEDIATELY!** 1. Check that correct power supply is in use. 2. Send camera out for repair.

Q-SEE PRODUCT WARRANTY

Q-See is proud to back all of our products with a conditional service warranty covering all hardware for 12 months from the date of purchase. Additionally, our products also come with a free exchange policy that covers all manufacturing defects for one month from the date of purchase. Permanent upgrading service is provided for the software.

Liability Exclusions:

Any product malfunction or abnormalities in operation or damage caused by the following reasons are not within the free service scope of our company:

1. Equipment damage caused by improper operation.
2. Improper equipment operation environment and conditions (e.g., improper power, extreme environmental temperatures, humidity, lightning and sudden surges of electricity).
3. Damage caused by acts of nature (e.g., earthquake, fire, etc).
4. Equipment damage caused by the maintenance of personnel not authorized by Q-See.
5. Product sold over 12 months ago.

In order to fulfill the terms of your warranty, you must complete the registration process after purchasing our product. To do this, simply fill out the User's Information Card on our website at www.Q-See.com

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