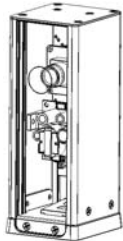




inTC Series Slim Tower Camera



Quick Start Guide

Before operating this product, please read this quick-start guide to ensure proper use. Please store these instructions a safe place for future reference.

Rev 0.1



FEATURES

- Compact Design
- High Sensitivity sensor
- 800TVL Resolution
- 0.01 Lux
- Wide Dynamic Range
- HLC, BLC, DEFOG
- Dual Optical Vari-Focal
- Sens Up
- Optional UTC Programmer
- 12VDC or 24VAC

PRECAUTIONS

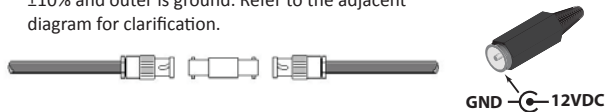
1. Before installing and operating the unit, please read this manual carefully.
2. Precision components are contained in this camera, please avoid violent vibrations during installation and maintenance. Do not connect the power until you have completed the installation.
3. Please obey all local electrical wiring regulations when using this unit.
4. Do not use abrasive or corrosive materials for cleaning. Use only a soft cloth for cleaning.
5. To prevent damage to the lens or sensor, do not point the camera directly into the sun or very strong light sources.
6. Do not use the camera outside its working temperature (-10°C ~ 50°C / 14°F ~ 122°F) or humidity (<90%) ranges.
7. Ensure that the power supply meets the current requirements of the camera and that the supply voltage is inside the tolerances of the camera: 24VAC ±10%
8. Ensure that the fixings used are adequate to support the load of camera.
9. In case of camera failure, do not attempt to dismantle or service the camera yourself. Please refer to qualified service personnel for repair of the camera.

CONNECTIONS

Connections for video and power are made at the rear of the camera. The cables may be moved so they come out the base of the unit.

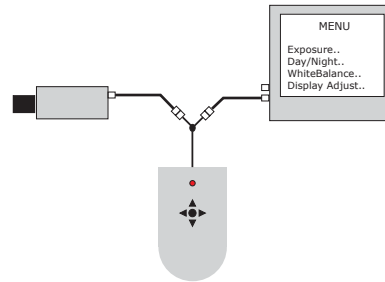
Two connectors are provided:

1. Video output connector, 75Ω BNC socket. Use the supplied BNC barrel connector (coupler) to make your connections to a male BNC connector out to a Monitor, DVR or UTC programmer to this socket.
2. Power Input connector. This is a 2.1mm DC jack. Connect 24VAC or 12VDC. Observe polarity of 12VDC connections. The center conductor is +12VDC ±10% and outer is ground. Refer to the adjacent diagram for clarification.



OSD ACCESS

The camera is supplied in a general configuration that will suit the majority of installation requirements. Should advanced configuration be required, the optional UTC (up the coax) Programmer may be connected to the camera to access the camera On Screen Display (OSD) for user programming.



Connect the Video-In connector of the UTC controller to the Video-Out connector of the camera. Connect the Video-Out of the UTC controller to a display monitor. To activate the camera OSD, depress the joystick button on the UTC Controller (operation is confirmed when LED is latched on).

Push the joystick ▲▼ to select a menu from the list.

Push the joystick ◀▶ to change the selected value.

Press the joystick button to call the sub-menu or execute a command.

To return from a sub-menu to the previous menu, select "Return" and press the joystick button.

OSD MAIN MENU

When the OSD menu is launched, you are presented with the adjacent opening screen. A menu option followed by a ↵ indicates the presence of a sub-menu. Options set to OFF will not show a ↵ until set to ON

Use RETURN ↵ to return to the previous menu.

MAIN MENU	
LENS	DC↵
EXPOSURE.	↵
WDR	OFF
WHITE BAL	ATW
DAY&NIGHT	AUTO↵
NR	↵
SPECIAL	↵
ADJUST	↵
VIDEO OUT	NORMAL
RESET	
EXIT	SAVE↵

LENS

LENS menu:

- **MODE** - DC or manual selection **Indoor** -Default, set to fixed values **OUTDOOR**- Iris and shutter will auto adjust to lighting situation.
- **LENS**- Used to optimize iris level using damping load.

LENS	
MODE	INDOOR
LENS	ADJUST
RETURN	RET

EXPOSURE MENU

EXPOSURE menu:

- **SHUTTER** - Auto, Manual, FLK selection, 1/60~1/50K. (1/50~50K PAL) Set this on to reduce the exposure time of each image. This can be used to reduce blur in images with fast changing content. FLK mode; Use this when flicker is observed in the image under fluorescent lighting. When WDR is ON, the shutter menu is disabled.
- **AGC - Off or Level Control** -Used to adjust overall gain.
- **SENS UP** - Slows frame rate and increases low light sensitivity.
- **BRIGHTNESS** - Sets the level of the overall brightness
- **D-WDR** - Actively controls gamma compensation to provide optimal image exposure in images with extremes of lighting. When WDR is ON the D-WDR menu is disabled.
- **DEFOG**- Improves the clarity of image obscured by fog by analysing the brightness of the image and compensates the color of the image.
- **BACKLIGHT** - **BLC or HLC** Adjust the area to be enhanced and sets the level for **BLC**. **HLC** is the ability to reverse bright points to black or gray, (areas such as headlights, any high luminance areas) this function will improve the overall picture. When WDR is ON the backlight menu is disabled.

EXPOSURE	
SHUTTER	AUTO ↵
AGC	ON ↵
SENS-UP	AUTO ↵
BRIGHTNESS	40 <input type="range"/>
D-WDR	OFF
DEFOG	OFF
BACKLIGHT	OFF
RETURN	RET

WDR

WDR - On,Off

- **GAIN** - Low, Middle, High - Sets level of WDR .
- **WDR OFFSET** - Used to improve contrast in bright/dark areas.

WDR	
GAIN	MIDDLE <input type="range"/>
WDR OFFSET	RET <input type="range"/>
RETURN	RET

WHITE BALANCE MENU

- **WHITE BAL** - ATW (default)
- **ATW** - the camera automatically samples the image for optimum white balance.
- **AWC-SET** - Allows the white balance to be set automatically and locked. This option is normally used when no white reference is present in the image. To set the white balance, hold a white object in front of the camera, with light from the source falling on it and press the joystick to set and lock the white balance.
- **INDOOR** -Used for color temperature between 2,300K and 9500K.
- **OUTDOOR**- Used for color temperature 1,800 and 10,500K.
- **MANUAL** - this option allows the Red and Blue gain to be manually set in the image. Note, using this option requires care to ensure all cameras on one system have the same color response.
- **AWB**- Used to adjust white balance for a specific controlled scene.

WHITE BAL	
ATW	ATW
AWC-SET	
INDOOR	[96]
OUTDOOR-	
MANUAL	
AWB	
RETURN	↵

DAY&NIGHT

DAY/NIGHT - AUTO, COLOR, B/W, EXTERNAL

- **AUTO** - Allows the camera to switch from color to B/W mode in low light. The switching thresholds and hysteresis time are adjustable.
- **COLOR** - fixes the camera in color mode
- **B/W** - fixes the camera in monochrome mode.
- **Extern - NA**

DAY/NIGHT	
Auto	↵
COLOR	↵
B/W	↵
EXTERNAL	NA
RETURN	↵

NOISE REDUCTION

NR - OFF, ON

- **2 DNR**- Level control
- **3 DNR** - Function is used to improve the picture quality by filtering the noise which is generated under low light conditions .

2D & 3D NR	
2 DNR	ON
3 DNR	ON ↵
RETURN	RET

SPECIAL

SPECIAL - OFF, ON - Press to open submenu.

- **CAM TITLE** - OFF, ON turning on enables sub menu to enter up to 15 characters for a camera title.
- **D-EFFECT-**
 - Freeze**- On, Off -
 - Mirror**- Off, Mirror, V-Flip, Rotate
 - D-Zoom**- Zoom, Pan & Tilt
 - Motion D-Zoom**-Zoom, Pan & Tilt triggered by motion in image.
 - Neg image-**
 - DIS**- Digital image Stabilization.

SPECIAL	
CAM TITLE	OFF
D-EFFECT	↵
MOTION	OFF
PRIVACY	OFF
LANGUAGE	ENG ↵
DEFECT	↵
UTC CONTROL	VER 1
RS485	NA
VERSION	130716
RETURN	↵

SPECIAL CONTINUED

- **MOTION** - OFF,ON, Select area, sensitivity, view
- **PRIVACY** - OFF, ON, Select area
- **LANGUAGE** - 16 Languages
- **DEFECT** - Dead Pixel Compensation
- **UTC CONTROL** -Ver 1, Ver 2, Ver 3, Ver 4
- **RS485- NA**
- **VERSION-** Displays version of camera firmware.

MOTION D-ZOOM	
SELECT	AREA 1
DISPLAY	ON
SENSITIVITY	[3]
PIP	OFF
D-ZOOM	(-X2)
DELAY TIME	[10]
STAY TIME	[5]
WAIT TIME	[30]
DEFAULT	↵
RETURN	RET

NOTE: When WDR is on and Wide is selected for video out the following functions are disabled; Freeze,D-Zoom, Motion D-Zoom and DIS. When WDR is off and wide is selected for video out DIS is disabled.

Note: For UTC control Ver.3 is for the inUTC Controller and Ver. 4 is for the inUTC-ZF Controller

ADJUST

DISPLAY ADJ - OFF, ON - Press to open submenu.

- **SHARPNESS** - Level control.
- **MONITOR** - CRT, LCD
- **LSC** - Compensates for shading effect when lens is at very wide angle.

ADJUST	
SHARPNESS	[3]
MONITOR	LCD
LSC	OFF
RETURN	↵

VIDEO OUT

VIDEO OUT- Wide, Normal

- **WIDE** - The camera produces a field of view based on the focal length of the attached lens.
- **NORMAL** - The field of view narrows by approximately 40% over the focal length of the attached lens. [Exp 3mm will show as 4.2mm]

RESET

RESET - Press to open submenu

- **FACTORY** - Reset to defaults.

RESET	
FACTORY	RESET ↵
RETURN	RET

SPECIFICATIONS

	System	PAL	NTSC
Imaging	Sensor	Advanced Mega Pixel Sensor	
	Effective Pixels	1305x1049 PAL	
Performance	Resolution	800TVL	
	Sensitivity	0.01Lux	
	Wide Dynamic Range	130dB Max	
	S/N Ratio	52dB	
	Day / Night	Software Controlled	
	Lens	Type	Fixed 3mm
	Optical Dual Vari-Focal	4.2mm	
	Mount	12mm	
Functions	OSD	15 Languages	
	Shutter	1/50~1/120,000	1/60~120,000
	Flickerless	On/Off	
	Wide Dynamic Range	On/Off Low/Medium/High	
	D-WDR	Off/Low/Medium/High	
	DEFOG	Auto/Manual/Low/Medium/High	
	Digital Image Stabilize	Yes	
	AGC	Adjustable Level	
	SENS UP	Adjustable Level 512x	
	Electronic shutter	Off/On 1/200,000 sec maximum	
	Sync	Internal	
	Camera ID Number	Off/On 1~255	
	Camera Name	Off/On, 15 Characters	
	White Balance	ATW/Push/Manual	
	2D DNR	Off,On	
3D DNR	Off/Level		
Gamma	0.35,0.4, 0.45, 0.5, 0.55		
Motion Detection	4 areas, Off/On, Position & Sensitivity		
Privacy masking	8 areas, Off/On, Color, Position		
Image functions	Sharpness, Mirror, Defog, HLC, BLC, Negative, Shade Comp		
Input/Output	Video Output	CVBS 1.0Vp-p 75Ω - BNC	
	Programming interface	Optional UTC Controller	
Power		12VDC or 24VAC +/-10% 4.2W max	
Physical	Construction	Extruded / Metal	
	Color	Black	
	Dimensions & Weight		
	8" Version	8" H x 2.05"W x 2.25"D 0.8lbs	
	16" Version	16" H x 2.05"W x 2.25"D 1.6lbs	
	20" Version	20" H x 2.05"W x 2.25"D 2.0lbs	
	24" version	24" H x 2.05"W x 2.25"D 2.4lbs	
Mounting	Base with angle adjustments		

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Please visit our website for full information: www.inMotioncctv.com

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